### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE001

NATIONAL MINERAL INVENTORY:

NAME(S): W.P.L., JOSS MOUNTAIN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L16W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

LATITUDE: 50 48 31 N

NORTHING: 5629515 EASTING: 399326

LONGITUDE: 118 25 44 W ELEVATION: 2042 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized outcrop, situated on the southeastern slopes of Joss

Mountain about 3 kilometres from its peak, approximately 26 kilometres south-southwest of Revelstoke (Assessment Report 14805).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Arsenopyrite

ASSOCIATED: Garnet ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Vein Disseminated

CLASSIFICATION: Skarn TYPE: E08

Carbonate-hosted talc O01 Rare element pegmatite - LCT family

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Marble

**Granitic Gneiss** 

Schist

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

> SAMPLE TYPE: Rock **GRADE**

COMMODITY Silver 5.7000 1.8500 Grams per tonne Gold Grams per tonne

Copper 0.4000 Per cent COMMENTS: Highest values

REFERENCE: Assessment Report 14805.

CAPSULE GEOLOGY

The W.P.L. occurrence is situated near a marble-granitic gneiss contact where massive pyrrhotite-chalcopyrite-arsenopyrite is hosted in a skarn zone. The massive mineralization is exposed on fault planes, while disseminated sulphides occur in schists and green garnetiferous zones; small veins cut these zones. Hostrocks belong

to the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex.

Rock samples taken from the mineralized zones analysed as high as 0.4 per cent copper, 1.85 grams per tonne gold and 5.7 grams per tonne silver (Assessment Report 14805).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14805 GSC MAP 1059A GSC MEM 296

GSC OF 481; 658

DATE CODED: 1994/01/05 CODED BY: GO FIELD CHECK: N REVISED BY: DATE REVISED: FIFLD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE002

NATIONAL MINERAL INVENTORY:

NAME(S): MOUNT GRIFFIN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

NTS MAP: 082L15E BC MAP:

NORTHING: 5643419 EASTING: 390222

LATITUDE: 50 55 55 N LONGITUDE: 118 33 44 W ELEVATION: 2133 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Summit of Mount Griffin, about 26 kilometres west of Revelstoke

(Geological Survey of Canada Memoir 296, page 157).

COMMODITIES: Mica

MINERALS
SIGNIFICANT: Mica MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Pegmatite Industrial Min.

TYPE: O03 Muscovite pegmatite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex **FORMATION** 

LITHOLOGY: Pegmatite

Granitic Gneiss Para Gneiss Ortho Gneiss

Garnet Sillimanite Schist

Amphibolite Marble Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Small amounts of books of amber sheet-mica, up to 20 centimetres across, have been observed in pegmatites on Mount Griffin, located about 26 kilometres west of Revelstoke. The mica is fractured and twinned and contains inclusions.

Surrounding rocks comprise Precambrian-Paleozoic(?) Shuswap Metamorphic Complex granitic gneiss, paragneiss, garnet sillimanite schist, amphibolite, marble, orthogneiss and quartzite.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58; 1988, pp. 49-54

EMPR OF 1990-30 GSC MAP 1059A GSC MEM \*296, p. 157

GSC OF 481

DATE CODED: 1994/01/10 DATE REVISED: 1994/01/10 CODED BY: GO REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE003

NAME(S): MILE 8, DEER, X5,

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082L10W 082L10E

BC MAP:

LATITUDE: LONGITUDE: 118 45 17 W ELEVATION: 609 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 2.75

kilometres south-southwest of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 57 kilometres north-

northeast of Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc

Lead

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown

Pyrrhotite

Pyrite

Galena

**Podiform** 

STRIKE/DIP:

**DEPOSIT** 

CHARACTER: Stratabound

Disseminated

CLASSIFICATION: Sedimentary Hydrothermal

TYPE: E14
DIMENSION: 130 Sedimentary exhalative Zn-Pb-Ag

x 2 Metres

COMMENTS: Mineralized zone.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

LITHOLOGY: Marble

Quartzite Granitoid Gneiss Augen Gneiss Sillimanite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

RELATIONSHIP:

**FORMATION** 

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Amphibolite

PAGE:

NATIONAL MINERAL INVENTORY: 082L10 Zn1

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5619169 EASTING: 376113

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

REPORT: RGEN0100

INVENTORY

ORE ZONE: PIT

REPORT ON: N

YFAR: 1975

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

**GRADE** 

Per cent 0.7000 Per cent

7inc

COMMENTS: Sample from a small pit.

COMMODITY

Lead

REFERENCE: Geology in British Columbia 1975, page G27.

CAPSULE GEOLOGY

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed regional geology description.

regional geology description.

Sphalerite-pyrrhotite-pyrite +/- galena mineralization at the Mile 8 showing is hosted in marble and is exposed intermittently for a distance of 130 metres along layering strike. The maximum exposed width of the mineralized zone is approximately 2 metres. A grab sample from a small pit analysed 7.7 per cent zinc and 0.7 per cent lead (Geology in British Columbia 1975, page G27). The next outcrops of marble, approximately 300 metres to the north, contain two small mineralized pods (see Mile 8 North, 082INE009). mineralized pods (see Mile 8 North, 082LNE009).

**BIBLIOGRAPHY** 

EMPR ASS RPT 2169

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1975, pp. 11-18 EMPR GEOL \*1975-G18-G30 EMPR PF (see Kingfisher, 082LNE007) GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/13 CODED BY: GSB REVISED BY: GO

MINFILE NUMBER: 082LNE003

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE004

NATIONAL MINERAL INVENTORY: 082L10 Zn1

MINING DIVISION: Vernon

NORTHING: 5620342 EASTING: 376160

PAGE:

REPORT: RGEN0100

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NAME(S): **DAKOTA**, ELK 3, MIDNIGHT 2, FX 5, FC 2-3, COLBY

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082L10W 082L10E UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 43 18 N LONGITUDE: 118 45 16 W

ELEVATION: 762 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 1.75

kilometres south-southwest of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 58 kilometres north-northeast

of Vernon (Geology in British Columbia 1975).

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Galena

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Sedimentary Hvdrothermal

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Calcareous Quartzite

Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

regional geology description.

Mineralization in the Dakota zone is hosted in calcareous quartzite. The quartzite is intermittently exposed over a length of approximately 400 metres and contains spotty sphalerite and galena along its contacts with calcilicate gneiss and marble. The mineralized sections are generally of low grade and are narrow with a

maximum width of 1 to 2 metres.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2169, \*4934 EMPR FIELDWORK 1975, pp. 11-18 EMPR GEOL \*1975-G18-G30

EMPR PF (see Kingfisher, 082LNE007)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1994/01/13

MINFILE NUMBER: 082LNE004

FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE005

NATIONAL MINERAL INVENTORY: 082L10 Zn1

NAME(S): **STAR 4**, FX 5-6, FX 20

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L10W 082L10E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 43 28 N LONGITUDE: 118 45 10 W ELEVATION: 792 Metres

NORTHING: 5620648 EASTING: 376285

LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 1.5 kilometres south-southwest of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 57 kilometres north-northeast

of Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc.

Lead

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown

Galena

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Hvdrothermal

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

FORMATION Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Calcareous Quartzite

Calc-silicate Gneiss

Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

regional geology description.

Mineralization at the Star 4 showing is hosted in calcareous quartzite and is about 300 metres north of the Dakota occurrence (082LNE004). The quartzite contains spotty sphalerite and galena along its contacts with calculicate gneiss and marble.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2169, 4934 EMPR FIELDWORK 1975, pp. 11-18 EMPR GEOL \*1975-G18-G30

EMPR PF (see Kingfisher, 082LNE007)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/13

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE006

NATIONAL MINERAL INVENTORY: 082L10 Zn1

PAGE:

REPORT: RGEN0100

NAME(S): STAR 13, SILVER KING 26, SILVER KING 21, STAR 3

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L10E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 43 26 N LONGITUDE: 118 44 27 W NORTHING: 5620566 EASTING: 377127 ELEVATION: 746 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 1

kilometre south of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 59 kilometres north-northeast of Vernon

(Geology in British Columbia 1975).

COMMODITIES: Zinc Lead

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Pyrrhotite Pyrite Galena

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Sedimentary Hvdrothermal

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Quartzite **Biotite Gneiss** Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

regional geology description.

Mineralization at the Star 13 showing is hosted in quartzite near the contact with biotite gneiss and calculicate gneiss and comprises sphalerite-pyrrhotite-pyrite +/- galena.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2169

EMPR FIELDWORK 1975, pp. 11-18 EMPR GEOL \*1975-G18-G30

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: GO DATE REVISED: 1994/01/13

MINFILE NUMBER: 082LNE006

FIELD CHECK: N

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE007

NATIONAL MINERAL INVENTORY: 082L10 Zn1

PAGE:

NORTHING: 5621327

**EASTING: 377635** 

Unnamed/Unknown Informal

REPORT: RGEN0100

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 $\label{eq:NAME} \begin{aligned} \text{NAME}(S) &: & \underbrace{\textbf{KINGFISHER}}_{FC,\ CENTRAL,\ LEN,}, \text{BLACK JACK}, \ FX, \end{aligned}$ 

COLBY, BRIGHT STAR, RIDGE,

MAIN. EAST. BST

STATUS: Developed Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L10E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 43 51 N LONGITUDE: 118 44 02 W ELEVATION: 838 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Central zone, on a ridge between Kingfisher and Danforth creeks, 8 kilometres west of the north end of Mabel Lake, about 60

kilometres north-northeast of Vernon (Geology in British Columbia

1975).

COMMODITIES: Zinc I ead Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Calcite Pyrrhotite Pvrite Galena

Diopside Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound **Podiform** Disseminated Layered

CLASSIFICATION: Sedimentary Hydrothermal Broken Hill-type Pb-Źn-Ag±Cu E13 Irish-type carbonate-hosted Zn-Pb

TYPE: S01 Bro SHAPE: Cylindrical

MODIFIER: Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Shuswap Metamorphic Complex

Unknown

LITHOLOGY: Marble

Quartzite Garnet Biotite Gneiss Calc-silicate Gneiss **Amphibolite** 

Hornblende Gneiss

Garnet Biotite Sillimanite Gneiss

Granite Pegmatite

Granite Pegmatite Sill

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RFI ATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: KINGFISHER REPORT ON: Y

> CATEGORY: Indicated YEAR: 1974

1670000 Tonnes QUANTITY: COMMODITY **GRADE** 

Per cent 0.58002.6000 Per cent

REFERENCE: Statement of Material Facts 25/10/74, Colby Mining Limited.

CAPSULE GEOLOGY

The Kingfisher occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers.

The rocks on the Kingfisher property have been divided into six metamorphic units and two intrusive units. The sequence of metamorphic units probably represents an originally conformable

package of sedimentary rocks (Geology in British Columbia 1975).

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Unit 6 is the structurally lowest unit and consists dominantly of medium to coarse grained garnet biotite gneiss that is intruded by many granite-pegmatite sills and dikes. Some white quartzite, marble and rare calcsilicate gneiss layers occur in unit 6. Unit 5 consists of fairly pure marble interlayered with quartzite. Included in the quartzite are some garnet biotite gneiss layers, and along the quartzite-marble contacts, coarse grained calcuilicate gneiss. more impure quartzite of unit 5 (those containing diopside and/or feldspar) may be mineralized with sulphides. Unit 4 is a heterogeneous unit comprised predominantly of calcsilicate gneiss, but includes rusty weathering to clean white marble, garnet biotite gneiss, minor quartzite and minor amphibolite. The rocks of unit 4 host sulphide mineralization in the Central zone which forms the Kingfisher deposit. Unit 3 is a massive white marble up to several hundred metres thick. Included in the marble are a number of discontinuous layers of garnet biotite gneiss and hornblende gneiss. The most significant mineralization in the Central zone is contained within unit 3. Unit 2 consists of rusty weathering garnet-biotitesillimanite gneiss with minor amounts of associated calcsilicate gneiss. Granite-pegmatite bodies, up to several hundred metres in diameter, commonly intrude unit 2. Unit 1 consists of hornblende gneiss, garnet biotite gneiss and some calculicate gneiss.

Units 1 to 6 are intruded by numerous granite-pegmatite and

Units 1 to 6 are intruded by numerous granite-pegmatite and aplite dikes, sills and irregular stock-like bodies. These range in size from small discontinuous sills a few metres in length to almost equidimensional stock-like intrusions several hundred metres in diameter. A number of north trending quartz feldspar porphyry dikes also cut across the layered rocks and are generally 5 to 10 metres in width.

In summary, the succession of metasedimentary rocks in the Kingfisher area includes biotite gneiss, interlayered quartzite and marble, and calcsilicate gneiss overlain by a thick marble layer (unit 3). These units are in turn overlain by biotite gneiss and minor associated calcsilicate gneiss, and then calcareous hornblende gneiss and amphibolite of unit 1. The rocks have been subjected to high grade regional metamorphism; aluminous gneisses contain sillimanite and occasionally kyanite. The rocks are indicative of upper amphibolite and/or granulite facies of metamorphism (Geology in British Columbia 1975).

The structure in the area is dominated by four northwest-trending faults. These separate the layered rocks into five distinct blocks. The apparent movement of the faults is right-lateral strike-slip with displacement ranging from approximately 100 to 700 metres. The faults cut across an earlier mineral foliation which strikes north-northeast and dips at varying angles to the southeast. This foliation is everywhere parallel or almost parallel with layering. Mineral lineations contained within the foliation plunge to the southwest. Two types of mesoscopic folds are common. The first is typically tight to isoclinal and plunges to the southwest, parallel to the mineral lineations. The second type is more open and has a more variable attitude, although generally it also plunges to the southwest.

Mineralization in the region is restricted to five main areas. These are referred to as Mile 8 (082LNE003), Dakota (082LNE004), Central (this description), Cominco Showings (082LNE019) and Mile 12 (082LNE010). The Don (082LNE008) and Star 13 (082LNE006) showings are also nearby.

Mineralization in the Central zone is in marble of unit 3 and calculate and quartzite of units 4 and 5. Mineralization in marbles consists of dark, medium-grained sphalerite, with varying amounts of pyrrhotite and minor pyrite disseminated through a medium to coarse grained white calcite matrix. Galena is also common, though much finer grained and more widely scattered. The sulphide concentration varies considerably across a mineralized zone, commonly producing a crude layering.

Mineralized quartzites almost invariably contain calcareous minerals in accessory amounts. Dark sphalerite with pyrrhotite is concentrated generally in thin layers. Galena is more common in quartzites than in the marbles, although it is always subsidiary to sphalerite. The sulphide concentration varies from widely scattered individual grains to almost massive intergrowths.

Mineralization in calculicate gneisses shows gradational features between that in marble and that in quartzite. Sphalerite, pyrrhotite, pyrite +/- galena may be evenly distributed through a coarse grained calcite-diopside rock or may tend to concentrate in layers in a more quartz-rich rock.

In general, mineralized sections in quartzites are of lower grade but are more continuous along strike with the layering than those in marble. Discontinuous high-grade pods are common in the

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REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

marbles.

Indicated reserves on the Kingfisher property are 1.67 million tonnes grading 0.58 per cent lead and 2.6 per cent zinc (Statement of Material Facts 25/10/74, Colby Mining Limited). Crude ore was shipped in 1966 and 1976 from surface workings.

#### **BIBLIOGRAPHY**

EMPR AR 1964-105-108,172; 1965-165; 1968-222
EMPR ASS RPT 578, 579, 2169, 4933, 4934, 4945, 5369, 6214, 6254, 6551
EMPR BC METAL MM00423, MM00432
EMPR EXPL 1975-E54; 1977-E82
EMPR FIELDWORK 1974, pp. 7,8; 1975, pp. 11-18
EMPR GEM 1969-298; 1974-91-94
EMPR GEOL \*1975, pp. G18-G30
EMPR MAP 65 (1989)
EMPR OF 1992-1; 1994-1, 2000-22
EMPR PF (Property description by D.G. White (1974), Kamloops District Geologist; Gilmour, W.R. (1974): Report on the Diamond Drill Program at the Black Jack Property; Reeve, A.F. (1964): A Preliminary Report on the Kingfisher, Elk and Julie Claim Groups; Various memoranda regarding property geology, assays, reserves, drillhole results and claim location maps; Drillhole location map; Rock sample photographs, drillhole sections and location maps; Rock sample photographs, drillhole sections and location maps)
EMR MIN BULL MR 223 (B.C. 67)
EMR MP CORPFILE (Bright Star Trio Mining Ltd.; Dakota Silver Mines Ltd.; Colby Mines Ltd.)
GSC MAP 1059A
GSC OF 481; 637
GCNL #238, #226, 1974; #238, #200, 1976
Placer Dome File
EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/01/12 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE007

PAGE:

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE008

NAME(S): DON, DON 2, RICH 1

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L10E BC MAP:

LATITUDE: 50 44 08 N LONGITUDE: 118 43 25 W ELEVATION: 853 Metres

LOCATION ACCURACY: Within 500M

Lead

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 1 kilometre north-northeast of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 61 kilometres north-northeast

of Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Pyrrhotite Pyrite Galena

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Hvdrothermal

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed regional geology description regional geology description.

Mineralization at the Don showing is hosted in quartzite near

the contact with marble and comprises sphalerite-pyrrhotite-pyrite +/- galena.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2169 EMPR FIELDWORK 1975, pp. 11-18

EMPR GEOL \*1975-G18-G30

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/13 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE008

PAGE:

NATIONAL MINERAL INVENTORY: 082L10 Zn1

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5621835 EASTING: 378372

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE009

NATIONAL MINERAL INVENTORY: 082L10 Zn1

NAME(S): MILE 8 NORTH

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L10W 082L10E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

12

LATITUDE: 50 42 49 N

NORTHING: 5619443 EASTING: 376276

MINING DIVISION: Vernon

LONGITUDE: 118 45 09 W ELEVATION: 647 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge between Kingfisher and Danforth creeks, 2.25 kilometres south-southwest of the Kingfisher deposit (082LNE007), 7 kilometres west of Mabel Lake and about 57 kilometres north-

northeast of Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc. I ead

**MINERALS** 

Pyrrhotite Galena

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown

Pyrite

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Podiform Hvdrothermal

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Marble

**Granitoid Gneiss** Augen Gneiss Sillimanite Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

regional geology description.

At the Mile 8 North showing, two small pods of sphaleritepyrrhotite-pyrite +/- galena mineralization is hosted in marble.

Approximately 300 metres to the south is the Mile 8 occurrence

(082LNE003).

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1975, pp. 11-18

EMPR GEOL \*1975-G18-G30

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/13 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE010

NAME(S): MILE 12, KING 3, KING, D, R, BST 23-24,

COLBY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L10E

BC MAP: 50 44 32 N LATITUDE:

LONGITUDE: 118 40 57 W ELEVATION: 762 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Located near Danforth Creek where the creek swings north, 4

kilometres east-northeast of the Kingfisher deposit (082LNE007) and 4 kilometres west of Mabel Lake, about 64 kilometres north-northeast of

Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc

Lead

SIGNIFICANT: Sphalerite Pyrrhotite Pyrite Galena

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound **Podiform** CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary Hydrothermal

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER FORMATION

Shuswap Metamorphic Complex

PAGE:

NATIONAL MINERAL INVENTORY: 082L10 Zn1

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5622509

EASTING: 381290

REPORT: RGEN0100

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LITHOLOGY: Marble

**Granitoid Gneiss** Augen Gneiss Sillimanite Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> YEAR: 1975 CATEGORY: Assay/analysis

> SAMPLE TYPE: Grab

GRADE COMMODITY

Per cent I ead 0.4900 Zinc 5.3000 Per cent

REFERENCE: Geology in British Columbia 1975, page G29.

CAPSULE GEOLOGY

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

and quartizite layers. See Kingfisher (082LNE007) for a detailed regional geology description.

At the Mile 12 showing, a small outcrop of marble is well mineralized with sphalerite-pyrrhotite-pyrite +/- galena through its entire exposed width of 2 metres. A grab sample from this zone yielded 0.49 per cent lead and 5.3 per cent zinc (Geology in British Columbia 1975, page G29).

**BIBLIOGRAPHY** 

EMPR ASS RPT 579, \*2169, 5369

EMPR FIELDWORK 1975, pp. 11-18 EMPR GEOL \*1975-G18-G30

EMPR PF (see Kingfisher, 082LNE007) GSC MAP 1059A

GSC MEM 296

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/01/13 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE010

PAGE:

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE011

NATIONAL MINERAL INVENTORY:

NAME(S): VIC, TOR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

15

NTS MAP: 082L16W BC MAP:

NORTHING: 5647432 EASTING: 399575

LATITUDE: 50 58 11 N LONGITUDE: 118 25 49 W ELEVATION: 1798 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The common boundary of the Vic 27 and 28 claims, 750 metres west of Victor Creek and about 17 kilometres west of Revelstoke (Assessment

Report 2079).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Pyrite

COMMENTS: Traces of chalcopyrite.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Massive

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Mafic Gneiss

Marble Quartzite Schist Calc-silicate Pegmatite Peamatite Dike Mafic Felsic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The Vic occurrence area is underlain by high grade metamorphic rocks of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex consisting of gneisses and schists with interlayers of quartzite, marble and calcsilicate rocks. Narrow lenses of pegmatite occur along bedding planes and as dikes along joints and faults. Fine grained felsic to mafic dikes occur in northwest trending, late fractures.

Abundant pyrrhotite, minor pyrite and traces of chalcopyrite occur along the margins of marble beds and as lenses in mafic

gneisses.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2079, 2080, 2081

EMPR GEM 1969-338,339 EMPR OF 1990-30

GSC MAP 143A; 1059A GSC MEM 296 GSC OF 481; 658

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1994/01/06 FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE012

NAME(S): MOLY, LH, GUNN,

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L15W

BC MAP:

LATITUDE: 50 58 05 N LONGITUDE: 118 47 49 W ELEVATION: 869 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the southeast slopes of Queest Mountain west of Legerwood Creek and 3 kilometres north of the Trans-Canada Highway, about 20 kilometres north-northeast of Sicamous (Assessment Report 9585).

Copper

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite C COMMENTS: Trace chalcopyrite. Chalcopyrite **Pyrite** 

ASSOCIATED: Quartz

ALTERATION: Sericite
ALTERATION TYPE: Sericitic Clav

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated Shear

CLASSIFICATION: Epigenetic Hydrothermal

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE <u>GROUP</u>

Devonian Undefined Group

LITHOLOGY: Meta Granitoid

Quartzofeldspathic Gneiss Granodiorite Gneiss Altered Granodiorite Gneiss

Lamprophyre Dike Augen Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

**FORMATION** 

Eagle Bay

PHYSIOGRAPHIC AREA: Shuswap Highland

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5647810 EASTING: 373827

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

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GRADE: Amphibolite

NATIONAL MINERAL INVENTORY:

INVENTORY

ORE ZONE: ADIT

REPORT ON: N

SAMPLE TYPE: Chip

Assay/analysis

YEAR: 1980

Per cent

COMMODITY Molybdenum

COMMENTS: Values range from 0.1 to 0.4 per cent.

REFERENCE: Assessment Report 9585.

CATEGORY:

CAPSULE GEOLOGY

At the Moly occurrence, a 6-metre long adit intersects a mineralized and altered shear zone in relatively massive metagranitoid rock. The shear zone is sericite and clay altered, and strikes northerly with 20 to 45 degree dips to the northwest. The metagranitoid grades conformably into quartzofeldspathic gneiss which is in a gradational contact with unaltered granodiorite gneiss. Below the adit, altered granodiorite gneiss has been intruded by lamprophyre dikes. The Assemblage (Formation). The Devonian hostrocks are part of the Eagle Bay

The pyritic shear zone is 1.2 metres wide and is wholly within the metagranitoid. Molybdenite, with trace quantities of fine-grained chalcopyrite, occurs as smears and coatings on shear fractures and as fine to medium-grained flakes and blebs in metagranitoid between shears. Chip samples of visibly mineralized areas of the main shear zone analysed from 0.1 to 0.4 per cent molybdenum over narrow intervals (Assessment Report 9585).

Diamond drilling cored quartzofeldspathic gneiss, altered

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

granodiorite gneiss, augen gneiss and altered shear zones. The metagranitoid was not intersected but the shear zone (unmineralized locally) was intersected at the projected downdip depth.

Visible molybdenite and chalcopyrite in crosscutting quartz veins and

structures were also intersected.

**BIBLIOGRAPHY** 

EMPR ASS RPT 3163, 4369, \*9585
EMPR BULL 9, p. 67
EMPR FIELDWORK 1988, pp. 49-54
EMPR GEM 1971-435; 1973-104
EMPR OF 1990-30
EMPR PF (Prospectus, Darva Resources and Development Ltd., Nov. 15, 1972, Report on the Moly Group by R.H.D. Philp)
GSC MAP 143A; 1059A
GSC MEM 296
GSC OF 481; 637

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/06 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE012

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE013

NATIONAL MINERAL INVENTORY:

NAME(S): NOREEN, OK, ROLET

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L10E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

18

LATITUDE: 50 40 20 N

NORTHING: 5614728 EASTING: 381035

LONGITUDE: 118 41 01 W ELEVATION: 823 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trenches, located 500 metres west of Mabel Lake, about 38 kilometres

north-northeast of Enderby (Assessment Report 22652).

COMMODITIES: Zinc Lead

MINERALS
SIGNIFICANT: Pyrrhotite Sphalerite Galena Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Hydrothermal TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

Marble Biotite Schist **Biotite Gneiss** Amphibolite Pegmatite Sill Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The Noreen property is underlain by a sequence of Precambrian-Paleozoic(?) Shuswap Metamorphic Complex rocks that strike north-northeast with shallow to moderate dips generally to the northwest. Mesoscopic isoclinal and broad folds complicate and possibly repeat the sequence which is dominated by biotite schist and quartzite with lesser amounts of marble, biotite gneiss and very minor amphibolite. Pegmatite dikes and sills commonly invade all rocks.

Stratabound disseminated mineralization comprising pyrrhotite, and lesser amounts of sphalerite, galena and pyrite is hosted in

quartzite.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6678, \*22652

EMPR EXPL 1978-E96 EMPR GEM 1973-102 GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1994/01/14

MINFILE NUMBER: 082LNE013

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE014

NATIONAL MINERAL INVENTORY:

NAME(S): QUEEST, COYOTE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L15W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

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LATITUDE:

NORTHING: 5648906 EASTING: 371981

LONGITUDE: 118 49 25 W ELEVATION: 1585 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized outcrop situated on the southeast slopes of Queest Mountain, 2 kilometres west of Legerwood Creek and 6 kilometres north

of the Trans-Canada Highway, about 20 kilometres north-northeast of

Sicamous (Assessment Report 9567).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ALTERATION: Sericite ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Porphyry Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

FORMATION STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Undefined Group Eagle Bay

Unknown Unnamed/Unknown Informal

LITHOLOGY: Granodiorite

Granodiorite Porphyry Quartz Sericite Schist Quartz Mica Schist Phyllite Quartzite

Siliceous Schist Hornblende Biotite Schist

Porphyroblastic Garnet Sillimanite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis YEAR: 1980

> COMMODITY **GRADE** 0.1300 Per cent

Molybdenum REFERENCE: Assessment Report 9567.

**CAPSULE GEOLOGY** 

Regionally, the Queest property lies near the western margin of the Shuswap Metamorphic Complex. The occurrence area is underlain by Hadrynian(?) to Paleozoic deformed metasedimentary and metavolcanic rocks of the Eagle Bay Assemblage (Formation). This sequence has been intruded by two plutonic phases and later stage derivatives.

The stratigraphic sequence is comprised of quartz sericite

schist, quartz mica schist, phyllite, quartzite, siliceous schist, hornblende biotite schist, porphyroblastic garnet-(sillimanite)-mica schist and granodiorite porphyry. Molybdenite mineralization occurs as disseminated thin hexagonal flakes up to 3 millimetres in diameter within granodiorite porphyry. A grab sample of coarse-grained

molybdenite along a fracture within sericitized granodiorite analysed 0.13 per cent molybdenum (Assessment Report 9567).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9567

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54 EMPR GEM 1972-84 EMPR OF 1990-30 GSC MAP 143A; 1059A GSC MEM 296 GSC OF 481; 637

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/07 CODED BY: GSB REVISED BY: GO

MINFILE NUMBER: 082LNE014

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE015

NAME(S): **MOUNT BEGBIE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16E BC MAP:

LATITUDE: 50 53 18 N LONGITUDE: 118 14 52 W ELEVATION: 2408 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, in a pegmatite dike at the lower edge of a snowfield on the northeast side of Mount Begbie, about 12 kilometres south of Revelstoke (Geological Survey of Canada Memoir 296, page 162).

Beryl

COMMODITIES: Gemstones

**MINERALS** 

SIGNIFICANT: Tourmaline Beryl ASSOCIATED: Garnet
MINERALIZATION AGE: Unknown Lepidolite

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite Industrial Min. TYPE: O01 Rare element pegmatite - LCT family

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Mesozoic

Proterozoic-Paleoz.

LITHOLOGY: Pegmatite

Pegmatite Dike Mičaceous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee

METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Monashee Mountains

GRADE: Amphibolite

Monashee Complex

PAGE:

Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5638149

EASTING: 412235

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

NATIONAL MINERAL INVENTORY: 082L16 Gem1

MINING DIVISION: Revelstoke

REPORT: RGEN0100

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**CAPSULE GEOLOGY** 

Numerous tourmaline-bearing pegmatite dikes occur in laminated, gently dipping micaceous quartzites of the Precambrian-Paleozoic(?) Monashee Complex (Group). The quartzites, which cap Mount Begbie, also contain disseminated tourmaline as an accessory component. T pegmatites are considered to be of Mesozoic age and occur as lenticular sill-like sheets. Some dikes cut sharply across bedding planes along fault-fractures. Conspicuous amounts of black tourmaline (schorlite) are evident in the dikes and occur in thick, prismatic crystals up to 7.6 centimetres long.

One small dike (up to 1.5 metres wide) on the northeast side of

**FORMATION** 

Mount Begbie peak, on the lower edge of a snowfield, contains black, green and red varieties of tourmaline, green beryl, garnet and lepidolite. The crystals of tourmaline are scattered and are up to

 $2.\overline{5}$  centimetres.

**BIBLIOGRAPHY** 

GSC EC GEOL \*23, pp. 60,61

GSC MAP 235A; 1059A GSC MEM \*296, p. 162 GSC OF 481; 658

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1993/12/31 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE016

NATIONAL MINERAL INVENTORY:

NAME(S): CLANWILLIAM LAKE, SUMMIT LAKE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 58 06 N LONGITUDE: 118 22 28 W ELEVATION: 868 Metres

NORTHING: 5647203 EASTING: 403492

LOCATION ACCURACY: Within 1 KM

COMMENTS: Quartzite, located just north of Clanwilliam Lake and the Trans-Canada Highway, 13 kilometres west of Revelstoke (Geological Survey of Canada Memoir 296, page 162).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz COMMENTS: Quartzite.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary

Industrial Min.

TYPE: R07 Silica sandstone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Pure, coarsely crystalline quartzite is common among strata of the Precambrian-Paleozoic(?) Monashee Complex. These rocks are free from iron-bearing minerals, appear translucent white in hand specimen, and are so homogeneous as to be almost devoid of internal bedding or lamination. Such quartzite may be a potential source of silica for industrial uses where a high degree of purity is demanded. Near Clanwilliam Lake, relatively pure quartzites occur.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58 EMPR OF 1987-15, p. 44; 1990-30

GSC BULL 195

GSC MAP 143A; 1059A GSC MEM \*296, p. 162 GSC OF 481; 658

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/12/29 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE017

NATIONAL MINERAL INVENTORY:

NAME(S): VICTOR LAKE QUARTZITE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

23

LATITUDE: 50 57 48 N LONGITUDE: 118 24 04 W ELEVATION: 1097 Metres NORTHING: 5646682 EASTING: 401609

LOCATION ACCURACY: Within 1 KM

COMMENTS: Quartzite, located just north of Victor Lake and the Trans-Canada Highway, about 15 kilometres west of Revelstoke (Geological Survey of

Canada Memoir 296, page 162).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz COMMENTS: Quartzite.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary

Industrial Min.

TYPE: R07 Silica sandstone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Pure, coarsely crystalline quartzite is common among strata of the Precambrian-Paleozoic(?) Monashee Complex. These rocks are free from iron-bearing minerals, appear translucent white in hand specimen, and are so homogeneous as to be almost devoid of internal bedding or lamination. Such quartzite may be a potential source of silica for industrial uses where a high degree of purity is demanded. Near Victor Lake, relatively pure quartzites occur.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, PP. 54-58 EMPR OF 1987-15, p. 44; 1990-30

GSC BULL 195

GSC MAP 143A; 1059A GSC MEM \*296, p. 162 GSC OF 481; 658

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/12/29 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE018

NATIONAL MINERAL INVENTORY:

NAME(S): THREE G'S

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

MINING DIVISION: Revelstoke

LATITUDE: 50 57 04 N UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LONGITUDE: 118 24 38 W ELEVATION: 609 Metres

NORTHING: 5645336 EASTING: 400920

Shuswap Metamorphic Complex

Monashee Complex

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Three G's claim, located between Three Valley and Victor

lakes, about 16 kilometres west of Revelstoke (Property File -

Thomas, 1991).

COMMODITIES: Graphite Rare Earths

**MINERALS** 

SIGNIFICANT: Graphite Monazite

ASSOCIATED: Quartz Pyrrhotite Pyrite Mica COMMENTS: Also annite and siderophyllite (trioctahedral micas of ideal

composition).

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal Industrial Min.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Proterozoic-Paleoz.

LITHOLOGY: Quartzite

Calc-silicate Gneiss

Marble

Sillimanite Kyanite Schist Carbonatite

Garnet Sillimanite Schist

Granitic Gneiss Para Gneiss Amphibolite Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional Monashee RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> CATEGORY: YFAR: 1990 Assay/analysis

> SAMPLE TYPE: Rock

**GRADE** COMMODITY Graphite Per cent

COMMENTS: Grade is actually 3.8 per cent carbon.

REFERENCE: Property File - Private report by G.E. Thomas, 1991.

**CAPSULE GEOLOGY** 

At the Three G's occurrence, a graphite-monazite showing occurs near the Monashee decollement. Allochthonous cover rocks comprise Precambrian-Paleozoic(?) Shuswap Metamorphic Complex granitic gneiss, paragneiss, garnet sillimanite schist, minor quartzite, marble and amphibolite, which are separated by the Monashee decollement from underlying Precambrian-Paleozoic(?) Monashee Complex (Group)

calculate gneiss, impure marble, sillimanite kyanite schist and local carbonatite. Pegmatites intrude the Shuswap rock series.

X-ray diffraction studies identified graphite, quartz, pyrrhotite, pyrite, and annite and siderophyllite which are

trioctahedral micas of ideal composition. Geochemical analysis also yielded 271,000 parts per million lanthanum, 272 parts per million praseodymium, 825 parts per million neodymium, 83 parts per million samarium, 40 parts per million gadolinium, 6 parts per million

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

dysprosium and 596 parts per million thorium (Thomas, 1991).

A rock grab sample from the showing analysed 3.8 per cent carbon

(Thomas, 1991).

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58
EMPR OF 1988-13; 1988-26; 1990-30
EMPR PF (\*Private report, G.E. Thomas, June 23, 1991)
GSC MAP 143A; 1059A
GSC MEM 296

GSC MEM 296 GSC OF 481; 658

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/10 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LNE018

PAGE:

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE019

NATIONAL MINERAL INVENTORY: 082L10 Zn1

NAME(S): COMINCO SHOWINGS, KINGFISHER 7, COLBY

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L10E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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BC MAP: LATITUDE: 50 44 10 N

NORTHING: 5621879 EASTING: 379158

LONGITUDE: 118 42 45 W ELEVATION: 762 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trenched area on a ridge between Kingfisher and Danforth creeks, 1.5

kilometres east-northeast of the Kingfisher deposit (082LNE007), 6 kilometres west of Mabel Lake and about 62 kilometres north-northeast

of Vernon (Geology in British Columbia 1975).

COMMODITIES: Zinc Lead

**MINERALS** 

Pyrrhotite Pyrite Galena

SIGNIFICANT: Sphalerite ALTERATION: Diopside

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound **Podiform** CLASSIFICATION: Sedimentary Hydrothermal

TYPE: E05 Sandstone Pb

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Shuswap Metamorphic Complex

Proterozoic-Paleoz.

LITHOLOGY: Marble

**Granitoid Gneiss** Augen Gneiss Sillimanite Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence area lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex, a belt of high grade metamorphic rocks. Rocks on the property comprise a heterogeneous package of granitoid gneiss, augen gneiss, sillimanite-bearing schist and prominent marble and quartzite layers. See Kingfisher (082LNE007) for a detailed

regional geology description.

A trenched area at the Cominco Showings occurrence exposes three mineralized zones. These zones are less than 1 to 1.25 metres in width and a maximum of 8 metres in length. Mineralization consists of dark sphalerite, pyrite, pyrrhotite and minor galena in a diopside-rich, rusty-weathering marble.

**BIBLIOGRAPHY** 

EMPR ASS RPT 578, 579, 2169 EMPR FIELDWORK 1975, pp. 11-18 EMPR PF (see Kingfisher, 082LNE007)

EMPR GEOL \*1975-G18-G30 GSC MAP 1059A

GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: FIELD CHECK: N REVISED BY: GO DATE REVISED: 1994/01/13 FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE020

NATIONAL MINERAL INVENTORY:

NAME(S): CRAN 3

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L16E BC MAP:

NORTHING: 5623612 **EASTING: 427334** 

UTM ZONE: 11 (NAD 83)

LATITUDE: 50 45 35 N LONGITUDE: 118 01 49 W ELEVATION: 780 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Pit #2 located between Highway 23 and the Columbia River, about 28 kilometres south of Revelstoke (Drawing #2, Assessment Report 6816).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Uraninite Autunite

ASSOCIATED: Quartz Feldspar **Biotite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Magmatic TYPE: 002 R Pegmatite

Rare element pegmatite - NYF family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Quartz Feldspar Granitic Pegmatite

Biotite Quartz Feldspar Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

REPORT ON: N ORE ZONE: PIT

> CATEGORY: YEAR: 1977 Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Uranium 0.0800 Per cent

REFERENCE: Assessment Report 6816.

CAPSULE GEOLOGY

Fine to medium grained quartz feldspar granitic pegmatites are interlayered with biotite-quartz-feldspar gneiss of the Precambrian-Paleozoic(?) Monashee Complex. Foliation of the gneiss strikes 080 to 100 degrees and dips 10 to 30 degrees north. Some of the pegmatites crosscut the gneiss as dikes and sills, however, the largest pegmatites are conformable lenses with thicknesses to 5 metres and strike lengths to 70 metres.

Radioactivity is associated with the granitic pegmatites, with anomalous zones up to several metres long and a few centimetres wide. Mineralization consists of uraninite crystals and fluorescent lemon-

yellow to green autunite smears on fractures.

At the Cran 3 showing, a chip sample from pit #2 assayed 0.08
per cent uranium (Assessment Report 6816). The pegmatite is
comprised of coarse-grained quartz, feldspar and biotite with several biotite clots. Several radioactive zones, with supporting uranium assays, occur over an area up to 2.5 kilometres southeast of pit #2.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6816 EMPR EXPL 1978-99,100 EMPR OF \*1990-32 GSC MAP 235A; 1059A GSC MEM 296

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481; 658

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/12/29 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082LNE020

PAGE:

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE021

NATIONAL MINERAL INVENTORY:

NAME(S): MOUNT ODIN, MT ODIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L09E BC MAP:

MINING DIVISION: Slocan UTM ZONE: 11 (NAD 83)

LATITUDE: 50 31 34 N

NORTHING: 5597829 EASTING: 414155

PAGE:

REPORT: RGEN0100

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LONGITUDE: 118 12 40 W ELEVATION: 2103 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Unit M3a (quartzite) of the Thor-Odin gneiss dome, on the southerly slopes of Mount Odin about 1 kilometre west of Bearpaw Lake, 52 kilometres south of Revelstoke (Geological Survey of Canada Bulletin

195, Figure 2).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz COMMENTS: Quartzite. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R07 Silica sandstone

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER Monashee Complex

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

Precambrian-Paleozoic(?) Monashee Complex (Group) rocks are exposed in the Thor-Odin gneiss dome, a part of a large domal complex in the central, eastern part of the Shuswap Metamorphic Complex. The dome is characterized by a structural-stratigraphic succession divided into four lithologically distinct zones. These are: the Core Zone, comprising migmatitic and granitic gneisses in the central part of the gneiss dome; the Mantling Zone, well-differentiated metasedimentary rocks ranging from quartzite and marble through calcsilicate gneiss to pelitic schist; the Fringe Zone, in part overlapping, and in part surrounding the Mantling Zone and characterized by large amounts of granitic and pegmatitic rocks; and the Supracrustal Zone that lies outside the gneiss complex, and forms a cover to the gneisses.

**FORMATION** 

Pure, coarsely crystalline quartzite is common among strata of the Monashee Complex. These rocks are free from iron-bearing minerals, appear translucent white in hand specimen, and are so homogeneous as to be almost devoid of internal bedding or lamination. Such quartzite may be a potential source of silica for industrial uses where a high degree of purity is demanded. Relatively pure quartzites in the Mantling Zone of the Thor-Odin dome occur on the

southerly slopes of Mount Odin.

**BIBLIOGRAPHY** 

EMPR OF 1987-15, p. 44 GSC BULL \*195 GSC MAP 1059A

GSC MEM \*296, p. 162 GSC OF 481; 658

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/12/24 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE022

NATIONAL MINERAL INVENTORY:

NAME(S): **PINGSTON CREEK** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L09E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 42 12 N ONGITUDE: 118 04 52 W

NORTHING: 5617393 EASTING: 423657

MINING DIVISION: Revelstoke

LONGITUDE: 118 04 52 W ELEVATION: 1981 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Quartrite in th

COMMENTS: Quartzite in the Mantling Zone of the Thor-Odin dome on a ridge of Mount Hall, west of Upper Arrow Lake and 1.5 kilometres east of Coursier Lake, north of Pingston Creek, about 33 kilometres south of Revelstoke (Geological Survey of Canada Memoir 296, page 162).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz
COMMENTS: Quartzite.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R07 Silica sandstone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. IGNEOUS/METAMORPHIC/OTHER Monashee Complex

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional

nal RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Pure, coarsely crystalline quartzite is common among strata of the Precambrian-Paleozoic(?) Monashee Complex. These rocks are free from iron-bearing minerals, appear translucent white in hand specimen, and are so homogeneous as to be almost devoid of internal bedding or lamination. Such quartzite may be a potential source of silica for industrial uses where a high degree of purity is demanded. Relatively pure quartzites occur on a ridge west of Upper Arrow Lake, 1.5 kilometres east of Coursier Lake and north of Pingston Creek.

**BIBLIOGRAPHY** 

EMPR OF 1987-15, p. 44 GSC BULL 195 GSC MAP 235A; 1059A GSC MEM \*296, p. 162 GSC OF 481; 658

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/12/24 REVISED BY: GO FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE023

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5619038 EASTING: 376423

REPORT: RGEN0100

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NAME(S): OM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L10E 082L10W BC MAP:

LATITUDE: 50 42 36 N LONGITUDE: 118 45 01 W ELEVATION: 609 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample site located between Danforth and Kingfisher creeks, near a

road, 2.5 kilometres south of the Kingfisher deposit (082LNE007), about 57 kilometres north-northeast of Vernon (Assessment Report

17470).

COMMODITIES: Marble

**MINERALS** 

SIGNIFICANT: Calcite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary

TYPE: R09 Limestone Massive Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER FORMATION Shuswap Metamorphic Complex

LITHOLOGY: Marble

Calc-silicate Gneiss

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The OM property is underlain by the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex. Locally, thick beds (averaging 61 metres) of marble, calcsilicate gneiss and quartzite are complexly folded and faulted, striking generally north-northeast and dipping southeast. Foliation is subparallel to the layering.

Relatively pure marble containing few sulphides and impurities was sampled and yielded 51.98 per cent CaO, 0.14 per cent Fe2O3, 2.33 per cent SiO2, and 41.81 per cent loss on ignition (Assessment Report 14740). Trace galena and white mica was observed in outcrop.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*17470

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/14 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE024

NATIONAL MINERAL INVENTORY:

NAME(S): **SHERPA** 

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L10E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 39 38 N

NORTHING: 5613384 EASTING: 383066

LONGITUDE: 118 39 16 W ELEVATION: 518 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillholes located near the east shore of Mabel Lake, about 38

kilometres north-northeast of Enderby (Assessment Report 13727).

COMMODITIES: Zinc Silver I ead Gold

SIGNIFICANT: Pyrrhotite

Pyrite

ASSOCIATED: Diopside

Sphalerite Phlogopite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound

Disseminated

Massive

CLASSIFICATION: Sedimentary TYPE: E14 Sedi Hydrothermal Sedimentary exhalative Zn-Pb-Ag

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Monashee Complex

LITHOLOGY: Calcareous Quartzite

Calc-silicate Gneiss Pelitic Gneiss Quartz Feldspar Gneiss

Graphitic Quartz Feldspar Gneiss

Sillimanite Gneiss Sillimanite Garnet Gneiss

Amphibolite

Biotite Quartz Feldspar Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1985

SAMPLE TYPE: Drill Core

COMMODITY Silver

Gold

Lead

**GRADE** 

4.6000 Grams per tonne

0.4100 0.1800 Grams per tonne Per cent Per cent

7inc

4.2600 COMMENTS: Highest values across variable widths.

REFERENCE: Assessment Report 13727.

**CAPSULE GEOLOGY** 

The property area is within the Precambrian-Paleozoic(?)
Monashee Complex (Group) near the eastern edge of the Shuswap
Metamorphic Complex, and underlain by a sequence of quartzite,
calcsilicate and pelitic gneiss, marble and amphibolite that trends
generally northward and dips at various angles to the east. A
pronounced foliation, essentially parallel to layering, suggests that
the apparently simple homoclinal sequence that hosts the mineral
occurrence is, in fact, part of a complex, isoclinally folded
metasedimentary package. metasedimentary package.

Mineralization at the Sherpa occurrence includes disseminated to massive pyrrhotite and sphalerite with minor amounts of pyrite and galena in a generally impure calcareous quartzite unit within pure to siliceous marble. The unit trends northeastward and dips moderately steeply to the southeast into the hillside; its exposed length is in

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

excess of 500 metres.

Diamond drilling intersected a mineralized interval that ranges in thickness from 17 to 27 metres. It is dominated by calcareous to relatively pure quartzite with thin interlayers of unmineralized marble, quartzite and gneiss. Mineralization consists dominantly of rounded, disseminated grains and irregular blebs of pyrrhotite and sphalerite in a medium grained diopside-phlogopite quartzite and also of highly irregular, composite grains interstitial to the quartz grains. Locally, pyrite forms rounded, composite grains within massive pyrrhotite, and galena occurs in trace amounts. As well, pyrrhotite and sphalerite are disseminated in coarse, granular marble units that are within or along the edge of mineralized quartzite layers. Total sulphide content in both quartzite and marble ranges from trace amounts to 30 to 40 per cent. Highest assay values across variable widths from the mineralized intervals were 4.26 per cent zinc, 0.18 per cent lead, 4.6 grams per tonne silver and 0.41 gram per tonne gold (Assessment Report 13727).

Drilling also cored rare sillimanite garnet gneiss, sillimanite gneiss, quartz feldspar gneiss, graphitic quartz feldspar gneiss and biotite quartz feldspar gneiss.

#### **BIBLIOGRAPHY**

EMPR ASS RPT 11760, \*13727 EMPR FIELDWORK \*1985, pp. 56-58 GSC MAP 1059A

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/01/11 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE024

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REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE025

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5644716

EASTING: 414923

REPORT: RGEN0100

34

 $\mathsf{NAME}(\mathsf{S}) \colon \operatorname{\textbf{REVELSTOKE}}, \mathsf{REVELSTOKE} \ \mathsf{FLAGSTONE}, \mathsf{BEGBIE} \ \mathsf{FLAGSTONE}$ 

Open Pit

STATUS: Producer REGIONS: British Columbia

NTS MAP: 082L16E BC MAP:

LATITUDE: 50 56 52 N LONGITUDE: 118 12 40 W ELEVATION: 541 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry, 4.5 kilometres south of Revelstoke, on the west side of the

Columbia River between Highway 23 and the river.

COMMODITIES: Flagstone Dimension Stone **Building Stone** Aggregate

**MINERALS** 

SIGNIFICANT: Unknown

COMMENTS: Muscovite mica schist.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: R08 Flags Industrial Min.

R15 Crushed rock Flagstone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Monashee Complex

Proterozoic-Paleoz.

LITHOLOGY: Muscovite Mica Schist

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Monashee Mountains

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The Revelstoke flagstone quarry is situated within the Precambrian-Paleozoic(?) Monashee Complex. This small, one-man enterprise was started in 1957 and operates in the summers only. Drilling and blasting is done to loosen the slabs, followed by hand-splitting. The stone is a light grey muscovite mica schist which is supplied to building material companies in British Columbia and Alberta. Production averages about 200 tonnes per year (Z.D.

Hora, personal communication, 1993).

**BIBLIOGRAPHY** 

EMPR ENG INSP 1989 EMPR EXPL 1985-A46; 1986-A77; 1996-A13 EMPR INF CIRC 1988-6, p. 26; 1996-1, p. 10; 1997-1, p. 13; 1998-1,

p. 15

EMPR MAP 65 (1989)

EMPR MINING 1986-1987, p. 82; 1988, p. 80 EMPR OF 1988-13; 1992-1; 1992-9; 1994-1 GSC MAP 235A; 1059A

GSC MEM 296

GSC OF 481; 658

DATE CODED: 1991/02/01 DATE REVISED: 1993/12/30 CODED BY: GO REVISED BY: GO FIELD CHECK: N FIELD CHECK: Y

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE026

NATIONAL MINERAL INVENTORY: 082L16 Phs1

NAME(S): THREE VALLEY GAP

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE:

NORTHING: 5642532 EASTING: 402136

LONGITUDE: 118 23 33 W ELEVATION: 1400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located along the Victor Lake main logging road, which joins the Trans-Canada Highway from the south, approximately 3 kilometres

east of Three Valley Gap.

COMMODITIES: Rare Earths

**MINERALS** 

SIGNIFICANT: Unknown COMMENTS: Carbonatite.
ALTERATION TYPE: Fenitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Massive CLASSIFICATION: Magmatic

TYPE: N01 Carbonatite-hosted deposits

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Monashee Complex

LITHOLOGY: Carbonatite

Leucocratic Syenite

**Fenite** 

Pelitic Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Carbonatites and leucosyenites are found along the Victor Lake main logging road, which joins the Trans-Canada Highway from the south, approximately 3 kilometres east of Three Valley Gap. Outcrop is limited to roadcuts, at elevations between 900 and 1500 metres. The road is in good shape and passable by conventional vehicles.

Tentatively the hostrocks are assigned to the Precambrian-Paleozoic(?) Monashee Complex. The carbonatites and syenites occur as thin, discontinuous bedding-parallel lenses in pelitic metasedimentary rocks. Both the intrusions and the hostrocks have been metamorphosed to upper amphibolite facies (sillimanite zone) and the pelites have been extensively migmatized. Carbonatite lenses are generally 20 to 60 centimetres in width and have 10 to 30 centimetre thick envelopes of mafic fenites developed between them and adjacent rocks. Everywhere observed, the fenites are in direct contact with, and gradational to, syenites. Commonly the carbonatite occurs as lenses within the fenite.

The carbonatites are primarily composed of calcite, biotite, apatite, perthite, hornblende, augite and traces of sphene. Fenites generally contain abundant augite, hornblende, calcite, scapolite and plagioclase. The leucosyenites generally contain potassium feldspar, plagioclase, augite and sphene. The origin of the leucosyenites is unclear; unambiguous field relationships are not exposed. These syenites may actually be syenitic fenites, rather than intrusive

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1984, p. 93 EMPR OF \*1987-17, pp. 63-64 GSC MAP 143A; 1059A GSC MEM 296, pp. 31,32

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481; 658

DATE CODED: 1990/12/17 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1994/01/06 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082LNE026

PAGE:

REPORT: RGEN0100

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE027

NATIONAL MINERAL INVENTORY:

NAME(S): D.S. (REBAR), D.S., REBAR

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L10E BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

LATITUDE:

NORTHING: 5612018 EASTING: 390521

PAGE:

REPORT: RGEN0100

37

LONGITUDE: 118 32 55 W ELEVATION: 1646 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, located on the southeast slopes of Mount Mabel, 8.5 kilometres east of Mabel Lake and north and west of Tsuius Creek, about 42 kilometres east-northeast of Enderby (Assessment Report

14612).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite

ASSOCIATED: Barite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Stratabound CLASSIFICATION: Sedimentary Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Calcareous Quartzite

Feldspathic Quartzite Calc-silicate Gneiss Siliceous Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SHOWING REPORT ON: N

> CATEGORY: YEAR: 1985 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY 23.0000 Grams per tonne Silver

I ead 4.8000 Per cent

REFERENCE: Fieldwork 1985, page 58.

**CAPSULE GEOLOGY** 

The area is within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex and underlain by a sequence of quartzite, calculate and pelitic gneiss, marble and amphibolite that trends generally northward and dips at various angles to the east. A pronounced foliation, essentially parallel to layering, suggests that the apparently simple homoclinal sequence that hosts the mineral occurrence is, in fact, part of a complex, isoclinally folded metasedimentary package.

The D.S. (Rebar) showing is a rusty-weathering layer of calcareous quartzite a few metres thick that is exposed in a logging roadcut. The layer trends east and dips north at 10 to 15 degrees. Subrounded grains of galena and sphalerite are disseminated through the layer and irregular grains are interstitial to a mosaic of angular quartz grains. Scattered grains of diopside, biotite partially altered to chlorite, and barite are common in the quartzite. The quartzite layer is underlain by interbedded feldspathic quartzites and calcsilicate gneiss layers, and overlain by a rusty, impure siliceous marble and calcsilicate gneiss sequence. Grab samples assayed up to 4.8 per cent lead, 23 grams per tonne silver and greater than 2 per cent barium (Fieldwork 1985, page 58).

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 12779, 14227, 14347, 14612 EMPR FIELDWORK \*1985, pp. 57-58 GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

CODED BY: GO REVISED BY: GO DATE CODED: 1994/01/17 DATE REVISED: 1994/01/17

MINFILE NUMBER: 082LNE027

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE028

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5606225 EASTING: 379917

REPORT: RGEN0100

39

NAME(S): **MABEL LAKE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L10E BC MAP:

LATITUDE: 50 35 44 N LONGITUDE: 118 41 48 W ELEVATION: 518 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Exposures of Sicamous Formation limestone, located on the east side of Mabel Lake, about 34 kilometres east of Enderby (Geological Survey of Canada Open File 637; Industrial Mineral File - McCammon, 1979).

COMMODITIES: Graphite

**MINERALS** 

SIGNIFICANT: Graphite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal Industrial Min. TYPE: P04 Crystalline flake graphite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. FORMATION IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Meta Limestone

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

On the east shore of Mabel Lake, bodies of metamorphosed

limestone of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex

are impregnated with graphite.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (\*Graphite Occurrences in British Columbia (1979),

No. 8, J.W. McCammon - Ministry Library)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

GSC SUM RPT 1931 Part A, p. 67

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/01/11 REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE029

NATIONAL MINERAL INVENTORY:

NAME(S): SICAMOUS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L15W BC MAP: LATITUDE: 50 48 56 N

UTM ZONE: 11 (NAD 83) NORTHING: 5631215 EASTING: 359326

PAGE:

REPORT: RGEN0100

40

LONGITUDE: 118 59 49 W ELEVATION: 366 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located near Sicamous (Industrial Mineral File - Letter from the Provincial Mineralogist to the Kamloops Resident Engineer, September

24, 1929, Graphite Occurrences in British Columbia (1979)).

COMMODITIES: Graphite

**MINERALS** 

SIGNIFICANT: Graphite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal TYPE: P04 Crysta Industrial Min.

Crystalline flake graphite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. **FORMATION** IGNEOUS/METAMORPHIC/OTHER Silver Creek Mount Ida

LITHOLOGY: Graphitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

Graphitic schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Assemblage (Group)) has been reported to occur

near Sicamous (McCammon, 1979).

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58; 1988, pp. 49-54

EMPR OF 1990-30

EMPR PF (\*Graphite Occurrences in British Columbia, J.W. McCammon (1979), No. 9 - Ministry Library; Letter from D. Galloway, Provincial Mineralogist, 1929)

GSC MAP 143A; 1059A GSC MEM 296

GSC OF 481; 637

DATE CODED: 1985/07/24 DATE REVISED: 1994/01/10 CODED BY: GSB FIELD CHECK: N REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE030

NATIONAL MINERAL INVENTORY:

NAME(S): QUEEST MOUNTAIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L15W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 58 48 N

NORTHING: 5649312 EASTING: 366918

MINING DIVISION: Kamloops

LONGITUDE: 118 53 45 W ELEVATION: 1829 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located on Queest Mountain, 6 kilometres east of Shuswap Lake and about 18 kilometres north-northeast of Sicamous (Open File 1988-26,

Figure 3, Map 2).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Metamorphic Industri. TYPE: P02 Kyanite-sillimanite schists Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Kyanite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

In this area, Hadrynian(?) to Paleozoic rocks of the Eagle Bay Assemblage (Formation) consist mainly of metasedimentary strata. the Queest Mountain area east of Shuswap Lake, kyanite prisms, 0.5 to 2.5 centimetres in length, are relatively common in schists, and

sillimanite is absent.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54 EMPR OF 1988-13; \*1988-26; 1990-30 GSC MAP 143A; 1059A GSC MEM 296, p. 16 GSC OF 481; 637

DATE CODED: 1985/07/24 DATE REVISED: 1993/12/29 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE031

NATIONAL MINERAL INVENTORY:

NAME(S): MOUNT MACKENZIE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

42

LATITUDE: 50 57 00 N

NORTHING: 5644842 EASTING: 422653

LONGITUDE: 118 06 04 W ELEVATION: 1752 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Showing located on the west flank of Mount Mackenzie, east of the Columbia River, about 8 kilometres south-southeast of Revelstoke (Geological Survey of Canada Memoir 296, page 36).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite Staurolite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Metamorphic TYPE: P02 Kyan

Industrial Min.

Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **GRO**UP

**FORMATION** Lardeau Broadview

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Kyanite Staurolite Muscovite Schist

Muscovite Gneiss

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Blades of kyanite and prisms of staurolite occur together at one locality on the west flank of Mount Mackenzie, southeast of Revelstoke. They appear as subhedral crystals from 0.3 to 2.5 centimetres long with random orientation in layers of muscovite schist, intercalated with muscovite gneiss and quartzite. The hostrocks belong to the Lower Paleozoic Broadview Formation (Lardeau

Group).

**BIBLIOGRAPHY** 

EMPR BULL 60 EMPR OF 1988-13 GSC MAP 235A; 1059A GSC MEM \*296, p. 36 GSC OF 481; 658

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/12/30 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE032

NATIONAL MINERAL INVENTORY:

NAME(S): **LEDGE CREEK** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L09E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Slocan

PAGE:

REPORT: RGEN0100

43

BC MAP: LATITUDE: 50 31 33 N

NORTHING: 5597750 **EASTING: 417167** 

LONGITUDE: 118 10 07 W ELEVATION: 1676 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Typical exposures along the southern branch of Ledge Creek, about 52 kilometres south of Revelstoke (Open File 1988-26, Figure 3, Map 2).

COMMODITIES: Sillimanite

**MINERALS** 

SIGNIFICANT: Sillimanite ASSOCIATED: Garnet MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Metamorphic

Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

FORMATION

IGNEOUS/METAMORPHIC/OTHER Monashee Complex

LITHOLOGY: Sillimanite Para Gneiss

Sillimanite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

Precambrian-Paleozoic(?) Monashee Complex (Group) rocks are exposed in the Thor-Odin gneiss dome, a part of a large domal complex in the central, eastern part of the Shuswap Metamorphic Complex. The dome is characterized by a structural-stratigraphic succession divided into four lithologically distinct zones. These are: the Core Zone, comprising migmatitic and granitic gneisses in the central part of the gneiss dome; the Mantling Zone, well-differentiated metasedimentary rocks ranging from quartzite and marble through calculicate gneiss to pelitic schist; the Fringe Zone, in part overlapping, and in part surrounding the Mantling Zone and characterized by large amounts of granitic and pegmatitic rocks; and the Supracrustal Zone that lies outside the gneiss complex, and forms a cover to the gneisses.

In the Mount Odin-Mount Symonds-Mount Fosthall area, paragneisses and schists of the Mantling Zone are present which contain abundant coarse garnet and prismatic sillimanite. Typic exposures occur along the southern branch of Ledge Creek. These Typical gneisses and schists may contain up to 15 per cent sillimanite which is present in the form of prismatic crystals up to 10 centimetres long, and abundant garnet porphyroblasts, up to 2.5 centimetres in size.

**BIBLIOGRAPHY** EMPR OF \*1988-26

GSC BULL 195 GSC MAP 1059A GSC MEM 296 GSC OF 481; 658

DATE CODED: 1993/12/29 DATE REVISED: //

CODED BY: GO REVISED BY:

MINFILE NUMBER: 082LNE032

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE033

NATIONAL MINERAL INVENTORY:

NAME(S): CRAN 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082L16E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

44

LATITUDE: 50 46 50 N LONGITUDE: 118 02 24 W ELEVATION: 790 Metres NORTHING: 5625938 EASTING: 426681

LOCATION ACCURACY: Within 500M

COMMENTS: Radioactive sample located between Highway 23 and the Columbia River, about 25 kilometres south of Revelstoke (Drawing No. 4, Assessment

Report 6816).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Uraninite ASSOCIATED: Biotite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Magmatic Peamatite

TYPE: O0Ž Rare element pegmatite - NYF family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Quartz Feldspar Granitic Pegmatite Biotite Quartz Feldspar Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional

GRADE: Amphibolite **RELATIONSHIP:** 

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YEAR: 1977 Assay/analysis

COMMODITY **GRADE** 

Uranium 0.3500 Per cent

COMMENTS: An 8.0 centimetre wide sample.

REFERENCE: Assessment Report 6816.

**CAPSULE GEOLOGY** 

Fine to medium grained quartz feldspar granitic pegmatites are interlayered with biotite-quartz-feldspar gneiss of the Precambrian-Paleozoic(?) Monashee Complex. Foliation of the gneiss strikes 080 to 100 degrees and dips 10 to 30 degrees north. Some of the pegmatites crosscut the gneiss as dikes and sills, however, the largest pegmatites are conformable lenses with thicknesses to 5 metres and strike lengths to 70 metres.

Radioactivity is associated with the granitic pegmatites, with

anomalous zones up to several metres long and a few centimetres wide. At the Cran 2 showing, mineralization consists of uraninite

associated with a biotite clot in an 8 centimetre wide pegmatite. A sample across the 8 centimetres assayed 0.35 per cent uranium

(Assessment Report 6816).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6816 EMPR EXPL 1978-99,100 EMPR OF \*1990-32 GSC MAP 235A; 1059A GSC MEM 296 GSC OF 481; 658

DATE CODED: 1987/04/02 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1993/12/30 REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE034

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5621118

EASTING: 428965

REPORT: RGEN0100

45

NAME(S): CRAN 4

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L09E BC MAP:

LATITUDE: 50 44 15 N LONGITUDE: 118 00 24 W

ELEVATION: 810 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Pit #3, about 1 kilometre west of Upper Arrow Lake and 32 kilometres

south of Revelstoke (Drawing #4, Assessment Report 6816).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Uraninite Autunite

ASSOCIATED: Quartz Feldspar

**Biotite** Muscovite Garnet

COMMENTS: Minor garnet. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite Magmatic

TYPE: O02 Rare element pegmatite - NYF family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Quartz Feldspar Granitic Pegmatite

Biotite Quartz Feldspar Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Monashee

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Monashee Mountains

**RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: PIT

REPORT ON: N

Per cent

YEAR: 1977

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

COMMODITY

**GRADE** 

Uranium

0.0280

COMMENTS: A 5.0 metre long sample.

REFERENCE: Assessment Report 6816.

**CAPSULE GEOLOGY** 

Fine to medium grained quartz feldspar granitic pegmatites are interlayered with biotite-quartz-feldspar gneiss of the Precambrian-Paleozoic(?) Monashee Complex. Foliation of the gneiss strikes 080 to 100 degrees and dips 10 to 30 degrees north. Some of

the pegmatites crosscut the gneiss as dikes and sills, however, the largest pegmatites are conformable lenses with thicknesses to 5 metres and strike lengths to 70 metres.

Radioactivity is associated with the granitic pegmatites, with anomalous zones up to several metres long and a few centimetres wide. Mineralization consists of uraninite crystals and fluorescent lemon-

yellow to green autunite smears on fractures.

At the Cran 4 showing, pit #3 exposes a 5 by 1 metre radioactive zone within a pegmatite composed of coarse-grained quartz, feldspar, muscovite, biotite and minor garnet. Chip samples along the 5 metre length assayed 0.028 per cent uranium (Assessment Report 6816).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6816 EMPR EXPL 1978-99-100 EMPR OF 1990-32

GSC BULL 195

GSC MAP 235A; 1059A

GSC MEM 296

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481; 658

DATE CODED: 1987/04/02 CODED BY: LDJ
DATE REVISED: 1993/12/29 REVISED BY: GO

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE035

NATIONAL MINERAL INVENTORY:

NAME(S): CAMERON (JENKINS 2)

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

NTS MAP: 082L16E BC MAP:

NORTHING: 5625079 EASTING: 421967

PAGE:

REPORT: RGEN0100

47

LATITUDE: 50 46 20 N LONGITUDE: 118 06 24 W ELEVATION: 980 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Symbol #7, located near the confluence of Cranberry and South Cranberry creeks, west of Highway 23, about 25 kilometres south of Revelstoke (Geological Survey of Canada Open File 658).

COMMODITIES: Thorium Uranium

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated

CLASSIFICATION: Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. IGNEOUS/METAMORPHIC/OTHER Monashee Complex **FORMATION** 

LITHOLOGY: Biotite Quartz Feldspar Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Cameron (Jenkins 2) occurrence area is underlain by layered biotite-quartz-feldspar gneiss of the Precambrian-Paleozoic(?)
Monashee Complex. Stratabound thorium and uranium apparently occur

in the gneiss.

**BIBLIOGRAPHY** 

EMPR OF \*1990-32 GSC MAP 1059A GSC MEM 296 GSC OF 481; \*658

DATE CODED: 1987/04/02 DATE REVISED: 1993/12/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE036

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5627519

**EASTING: 424157** 

REPORT: RGEN0100

48

NAME(S): CAMERON (JENKINS 1)

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L16E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 47 40 N LONGITUDE: 118 04 34 W ELEVATION: 730 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Symbol #8, located along Cranberry Creek just west of Highway 23, about 23 kilometres south of Revelstoke (Geological Survey of Canada

Open File 658).

COMMODITIES: Thorium Uranium

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Pegmatite TYPE: 002 Ra Magmatic Rare element pegmatite - NYF family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Monashee Complex

LITHOLOGY: Pegmatite

Biotite Quartz Feldspar Schist

Quartzite

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Cameron (Jenkins 1) occurrence area is underlain by biotite-quartz-feldspar schist, with interlayered quartzite and pegmatite, of the Precambrian-Paleozoic(?) Monashee Complex. Uranium

and thorium apparently occur in pegmatites.

**BIBLIOGRAPHY** 

EMPR OF \*1990-32 GSC MAP 235A; 1059A GSC MEM 296 GSC OF 481; \*658

DATE CODED: 1987/04/02 DATE REVISED: 1993/12/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE037

NATIONAL MINERAL INVENTORY:

NAME(S): KAREN, ARCL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L16E BC MAP:

NORTHING: 5632803 EASTING: 421985

LATITUDE: 50 50 30 N LONGITUDE: 118 06 29 W ELEVATION: 550 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Radioactive zone, close to Highway 23 and the Columbia River, about 17 kilometres south of Revelstoke (Plate No. 1, Assessment Report

7232).

COMMODITIES: Rare Earths Thorium

**MINERALS** 

SIGNIFICANT: Monazite Allanite Fuxenite

COMMENTS: Probable mineralogy.
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

IGNEOUS/METAMORPHIC/OTHER **FORMATION** Monashee Complex

LITHOLOGY: Muscovite Schist

Quartzite

Quartz Muscovite Schist Quartz Biotite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Karen occurrence area is underlain by quartz biotite schist and quartz muscovite schist of the Precambrian-Paleozoic(?) Monashee Complex. The strata strikes northwest and dips moderately to the

northeast.

Radioactivity is associated with a narrow zone of weathered muscovite schist flanked by quartzite. A chip sample assayed 0.06 per cent thorium oxide, 0.0036 per cent uranium, 0.36 per cent lanthanum, 0.815 per cent cerium, 0.08 per cent praseodymium, 0.38 per cent neodymium, 0.05 per cent samarium and 0.05 per cent gadolinium (Assessment Report 7232). Probable mineralogy is monazite, allanite and euxenite (Assessment Report 11697).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7232, \*11697 EMPR EXPL 1979-107; 1983-152

EMPR OF \*1990-32 GSC MAP 235A; 1059A GSC MEM 296

GSC OF 481; 658

DATE CODED: 1987/04/03 CODED BY: LDJ DATE REVISED: 1993/12/30 REVISED BY: GO

MINFILE NUMBER: 082LNE037

FIELD CHECK: N

FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE038

NATIONAL MINERAL INVENTORY:

NAME(S): MULVEHILL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082L16E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 51 15 N LONGITUDE: 118 07 24 W ELEVATION: 500 Metres

NORTHING: 5634209 EASTING: 420930

LOCATION ACCURACY: Within 500M

COMMENTS: Radioactive zone located very near Highway 23 and the Columbia River,

Limonite

about 16 kilometres south of Revelstoke (Industrial Mineral File -

Sketch map).

COMMODITIES: Thorium

Rare Earths Silica

**MINERALS** 

SIGNIFICANT: Hematite

Quartz Limonite

ALTERATION: Hematite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Hydrothermal

TYPE: C04 Paleoplacer U-Au-PGE-Sn-Ti-diam-mag-gar-zir

Proterozoic-Paleoz.

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP

IGNEOUS/METAMORPHIC/OTHER

Monashee Complex

LITHOLOGY: Sericitic Quartzite

Quartzitic/Quartzose Schist

Sericitic Quartz Pebble Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee

PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Mulvehill occurrence area is underlain by quartzitic schist of the Precambrian-Paleozoic(?) Monashee Complex. A 500 metre long radioactive zone, with up to 50,000 counts per second on a McPhar TV-1, occurs in impure sericitic quartzite. Foliation strikes 035 degrees and dips  $2\overline{4}$  degrees southeast. At the north end of the zone is an intraformational, stretched, sericitic quartz pebble conglomerate. Here, radioactivity, over 100,000 counts per second,

is associated with hematite and limonite. Thorium and rare earths are the likely source of the radioactivity (see Karen, 082LNE037).

**BIBLIOGRAPHY** 

EMPR OF \*1990-32 GSC MAP 235A; 1059A GSC MEM 296

GSC OF 481; 658

DATE CODED: 1987/04/03 CODED BY: LDJ DATE REVISED: 1993/12/30 REVISED BY: GO

MINFILE NUMBER: 082LNE038

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE039

NATIONAL MINERAL INVENTORY:

NAME(S): VICTOR LAKE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

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LATITUDE: 50 57 00 N

NORTHING: 5645177 EASTING: 402752

LONGITUDE: 118 23 04 W ELEVATION: 1234 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing, located south of Victor Lake about 14 kilometres west of Revelstoke (Open File 1988-26, Figure 3, Map 2).

COMMODITIES: Sillimanite

**Kyanite** 

**MINERALS** 

SIGNIFICANT: Sillimanite Kyanite

ASSOCIATED: Garnet
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Metamorphic Industri. TYPE: P02 Kyanite-sillimanite schists Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. IGNEOUS/METAMORPHIC/OTHER **FORMATION** Monashee Complex

LITHOLOGY: Pelitic Schist

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Monashee Mountains

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

Near Victor Lake and the Trans-Canada Highway, pelitic schists of the Precambrian-Paleozoic(?) Monashee Complex locally contain abundant prismatic sillimanite (around 10 per cent), kyanite and

garnet.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58

EMPR OF \*1988-26; 1990-30 GSC MAP 143A; 1059A

GSC MEM 296

GSC OF 481; 658 Hill, R.P. (1975): Structural and Petrological Studies in the Shuswap Metamorphic Complex near Revelstoke, British Columbia, Unpublished M.Sc. thesis, University of Calgary, Calgary, Alberta,

147 pp.

DATE CODED: 1988/03/29 DATE REVISED: 1993/12/29 CODED BY: CODED BY: JP REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE040

NAME(S): **ODIN CREEK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L09E BC MAP:

LATITUDE: 50 33 59 N LONGITUDE: 118 08 46 W ELEVATION: 1676 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Typical exposures at the headwaters of Odin Creek, about 47 kilometres south of Revelstoke (Open File 1988, Figure 3, Map 2).

COMMODITIES: Sillimanite Garnet

MINERALS
SIGNIFICANT: Sillimanite Garnet

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Monashee Complex

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NATIONAL MINERAL INVENTORY:

MINING DIVISION: Slocan

UTM ZONE: 11 (NAD 83)

NORTHING: 5602235

EASTING: 418832

LITHOLOGY: Para Gneiss

Schist Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee

METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization

PHYSIOGRAPHIC AREA: Monashee Mountains

GRADE: Amphibolite

### **CAPSULE GEOLOGY**

Precambrian-Paleozoic(?) Monashee Complex (Group) rocks are exposed in the Thor-Odin gneiss dome, a part of a large domal complex in the central, eastern part of the Shuswap Metamorphic Complex. dome is characterized by a structural-stratigraphic succession divided into four lithologically distinct zones. These are: the Core Zone, comprising migmatitic and granitic gneisses in the central part of the gneiss dome; the Mantling Zone, well-differentiated metasedimentary rocks ranging from quartzite and marble through calcallicate gneiss to pelitic schist; the Fringe Zone, in part overlapping, and in part surrounding the Mantling Zone and characterized by large amounts of granitic and pegmatitic rocks; and the Supracrustal Zone that lies outside the gneiss complex, and forms a cover to the gneisses.

In the Mount Odin-Mount Symonds-Mount Fosthall area, paragneisses and schists of the Mantling Zone are present which contain abundant coarse garnet and prismatic sill manite. Typical exposures occur near the headwaters of Odin Creek. These gneisses and schists may contain up to 15 per cent sillimanite which is present in the form of prismatic crystals up to 10 centimetres long, and abundant garnet porphyroblasts, up to 2.5 centimetres in size. In the same area coarse cornet 1 to 2 centimetres in size. In the same area, coarse garnet 1 to 2 centimetres in size may comprise up to 30 per cent of some amphibolite layers, but is more commonly present in quantities of 10 per cent or less.

**BIBLIOGRAPHY** 

EMPR OF \*1988-26 GSC BULL 195 GSC MAP 1059A GSC MEM 296 GSC OF 481; 658

DATE CODED: 1993/12/29 DATE REVISED: //

CODED BY: GO REVISED BY:

MINFILE NUMBER: 082LNE040

FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LNE041

NATIONAL MINERAL INVENTORY:

NAME(S): KINGFISHER MARBLE, KINGFISHER, WALLED, KINGFISHER CALCITE, CLIFTON, TSUIUS CREEK, MABEL LAKE, FRANZ CAPITAL

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L10E

BC MAP: LATITUDE: 50 36 37 N LONGITUDE: 118 38 09 W

ELEVATION: 914 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Drillhole #1, located approximately 3 kilometres east of the shore of

Mabel Lake, about 39 kilometres east of Enderby (Assessment Report 7797).

COMMODITIES: Marble Aggregate Limestone

Dolomite

Dimension Stone

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5607765

EASTING: 384258

**Building Stone** 

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**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Silica

Dolomite Diopside

Tremolite Garnet

Pyrite

Wollastonite

COMMENTS: Possible wollastonite.

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratiform

CLASSIFICATION: Sedimentary Industrial Min. TYPE: R04

Dimension stone - marble R09 Limestone R10 Dolomite Crushed rock

SHAPE: Tabular

MODIFIER: Fractured DIMENSION: 500 x 25 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Northern marble horizons.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

**FORMATION** GROUP

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Marble Dolomite

Limestone Granitic Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

REPORT ON: Y ORE ZONE: NO. 1

> CATEGORY: YEAR: 1990 Inferred

QUANTITY: 2000000 Tonnes **GRADE** COMMODITY

Marble 100.0000 Per cent

COMMENTS: Marble horizons estimated to contain 2 million cubic metres over a strike length of 500 metres and average thickness of 25 metres.

REFERENCE: Assessment Report 21154, 24607.

CAPSULE GEOLOGY

Dolomite and limestone outcrop on the south side of Tsuius

holes, drilled on dolomite outcrop in the southernmost horizons,

Creek, 3 kilometres east of Mabel Lake.

The Kingfisher Marble deposit comprises at least four distinct marble horizons hosted in granitic gneiss of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex. These units strike northwest and dip 10 to 20 degrees southwest. The two northernmost marble horizons, each in excess of 25 metres thick, have been traced over a distance of 500 metres (Yorke-Hardy, 1990). Three short

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

intersected continuous dolomite to depths of up to  $20.7~\mathrm{metres}$  (Assessment Report 7797, Hole DDH 1).

The two northern horizons are comprised of coarse to fine grained whitish marble with alternating greyish streaks and sometimes with pale blue, yellowish or brownish tones. Possible bedding is reflected in bands of differing grain size and colour. The marble frequently contains siliceous inclusions as beds or nodules. A sample of marble analysed by x-ray diffraction identified calcite, dolomite, diopside, tremolite and possible wollastonite (Hardy BBT Ltd., 1990).

Extensive fracturing is evident in outcrop, suggesting most of the marble will not yield large blocks. However, a series of nine blocks ranging in size from 1.2 by 0.9 by 0.38 metres to 2.4 by 1.5 by 1.5 metres were successfully extracted from outcrop. One of the marble horizons is estimated to contain inferred reserves of 2 million cubic metres (approximately 2 million tonnes) over a strike length of 500 metres and an average thickness of 25 metres (Yorke-Hardy, 1990).

Drilling on the two southern horizons intersected light grey to white, medium-grained dolomite with some calcite stringers, minor pyrite and minor garnet, occurring sometimes as thin reddish brown bands. The dolomite also contains a few bands of very light grey recrystallized limestone and is underlain by white to very light grey limestone with occasional garnet and minor pyrite (Assessment Report 7797).

The two northern marble horizons were sampled and drilled by Clifton Development Ltd. of Kelowna in 1990, while the two southern horizons were drilled by Wallace Chaput in 1979. The marbles were evaluated for possible use as dimension stone.

Franz Capital Corporation Ltd. has been delivering stone products from the Kingfisher marble quarry to landscape and brick retail businesses and construction sites in British Columbia and Alberta. The company plans to improve productivity and increase production and sales to approximately 200 tonnes per month. Products manufactured and stockpiled include split stone bricks and marble rock and chips (Information Circular 1996-1, page 10).

Work in 1994 was concentrated in the southwest property area and consisted of bulk sampling and quarry development on the southernmost exposure of the white calcite marble zone. A total of 24,000 tonnes of calcite marble was excavated by drilling and blasting. Some 4000 tonnes has been crushed to minus 2 inch aggregate, 10,000 tonnes remains to be crushed, and 16,000 tonnes of rock is stored in boulder form (Assessment Report 24607).

#### **BIBLIOGRAPHY**

EM EXPL 1996-A13

EMPR ASS RPT \*7797, \*21154, \*24607

EMPR INF CIRC 1991-1, p. 61; 1994-19, p. 17; 1995-1, p. 17; 1995-9, p. 10; 1996-1, p. 10; 1997-1, p. 13; 1998-1, p. 15

EMPR OF 1992-18; 1994-1

GSC MAP 1059A

GSC MEM 296

GSC OF 481; 637

DATE CODED: 1989/12/20 CODED BY: PSF FIELD CHECK: N
DATE REVISED: 1994/01/11 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 082LNE041

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE042

NATIONAL MINERAL INVENTORY:

NAME(S): SICAMOUS LIMESTONE, SALMON ARM

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L15W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

55

LATITUDE: 50 49 58 N NORTHING: 5633124 EASTING: 359573

LONGITUDE: 118 59 39 W ELEVATION: 360 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centred on the site of sample 3 on the west bank of the Shuswap River across from Sicamous (Minister of Mines Annual Report

1960, page 144).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Carbonate

ASSOCIATED: Quartz Grap MINERALIZATION AGE: Proterozoic-Paleoz. Graphite Mica

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime: Massive Industrial Min.

Limestone

COMMENTS: Limestone strikes northwest and dips northeast.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Paleozoic Mount Ida Sicamous

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

INVENTORY

ORE ZONE: ROADCUT REPORT ON: N

> YEAR: 1960 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Per cent Limestone 38.6600

COMMENTS: Sampled across 274 metres. Grade given for calcium oxide. REFERENCE: Minister of Mines Annual Report 1960, page 144, sample 3.

**CAPSULE GEOLOGY** 

Various exposures of limestone of the Lower Paleozoic Sicamous Formation (Mount Ida Assemblage (Group)) occur on the west bank of the Shuswap River (Sicamous Narrows) just west of Sicamous. limestone strikes northwest and dips northeast.

The limestone displays thin, grey and white platy bands with pods and lenses of quartz up to 0.2 metre thick. Graphite and mica occur along the partings. The limestone becomes impure and interbedded with other rocks to the west. A sample of chips taken at 6.1-metre intervals along the first 274 metres of a roadcut extending southward from Highway 1, along the west bank of the Shuswap River, analysed 38.66 per cent CaO, 1.34 per cent MgO, 23.84 per cent insolubles, 2.98 per cent R2O3, 2.47 per cent F2O3, 0.08 per cent MnO, 0.03 per cent P2O5, 0.28 per cent sulphur and 32.21 per cent ignition loss (Minister of Mines Annual Report 1960, page 144, Sample 3).

**BIBLIOGRAPHY** 

EMPR AR 1960-143,144

EMPR FIELDWORK 1987, pp. 54-58; 1988, pp. 49-54

EMPR OF 1990-30 GSC MAP 143A; 1059A

GSC MEM 296, pp. 21-22 GSC OF 481; 637

CANMET RPT 811, Part 5, p. 187

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

CJES Vol. 13, pp. 44-53

DATE CODED: 1989/09/19 CODED BY: PSF FIELD CHECK: N
DATE REVISED: 1994/01/10 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNE042

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE043

NATIONAL MINERAL INVENTORY:

NAME(S): **MARLIME**, SOLSQUA

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Kamloops

NTS MAP: 082L15W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

LATITUDE: 50 51 38 N LONGITUDE: 118 57 03 W ELEVATION: 366 Metres

NORTHING: 5636131 EASTING: 362706

LOCATION ACCURACY: Within 500M

COMMENTS: Pit, near the village of Solsqua on the northwest side of Eagle River, about 4 kilometres north-northeast of Sicamous.

COMMODITIES: Marl Travertine

MINERALS
SIGNIFICANT: Carbonate MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Evaporite Massive Industrial Min.

TYPE: H01 SHAPE: Tabular Travertine

DIMENSION: 3 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Flat-lying marl layer.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Marl

Travertine

Calcareous Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The Marlime marl deposit is 4 kilometres north-northeast of Sicamous on the northwest side of the Eagle River. The deposit consists of a layer of marl up to 3 metres thick that is in places extensively contaminated by soil. The marl or travertine was deposited by groundwater seeping to the surface after passing through Hadrynian(?) to Paleozoic calcareous rocks of the Eagle Bay

Assemblage (Formation).

The marl was mined by Marlime Ltd. of New Westminster between 1948 and 1950 for agricultural markets in the Fraser Valley.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58; 1988, pp. 49-54

EMPR OF 1990-30 GSC MAP 143A; 1059A GSC MEM \*296, p. 158 GSC OF 481; 637

DATE CODED: 1990/04/26 DATE REVISED: 1994/01/07 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE044

NATIONAL MINERAL INVENTORY:

NAME(S): VICTOR LAKE NORTH

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L16W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 58 44 N LONGITUDE: 118 23 20 W ELEVATION: 1524 Metres NORTHING: 5648395 EASTING: 402500

MINING DIVISION: Revelstoke

LOCATION ACCURACY: Within 500M

COMMENTS: Located 2.3 kilometres north of the Victor Lake showing (082LNE039), about 14 kilometres west of Revelstoke (Open File 1988-26, Figure 3

Map 2).

COMMODITIES: Andalusite Kyanite

**MINERALS** 

SIGNIFICANT: Andalusite **Kyanite** 

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite Vein

Magmatic Industrial Min.

TYPE: I14 Five-element veins Ni-Co-As-Ag±(Bi, U)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Monashee Complex

LITHOLOGY: Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Precambrian-Paleozoic(?) Monashee Complex rocks are exposed at the Victor Lake North showing where pegmatites in pelitic schists are reported to contain andalusite crystals as large as 4 by 3

centimetres in size. In this area, quartz veins containing bright blue kyanite blades up to 6 centimetres long, are also common.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 54-58

EMPR OF \*1988-26; 1990-30 GSC MAP 143A; 1059A

GSC MEM 296

GSC OF 481; 658 Hill, R.P. (1975): Structural and Petrological Studies in the Shuswap Metamorphic Complex near Revelstoke, British Columbia, Unpublished M.Sc. thesis, University of Calgary, Calgary, Alberta,

147 pp.

CODED BY: GO REVISED BY: FIELD CHECK: N DATE CODED: 1994/01/18 DATE REVISED: / /

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE045

NATIONAL MINERAL INVENTORY:

NAME(S): GRIFFIN LAKE, REVELSTOKE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L15E 082L16W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 57 48 N LONGITUDE: 118 29 59 W ELEVATION: 600 Metres NORTHING: 5646818 EASTING: 394685

MINING DIVISION: Revelstoke

LOCATION ACCURACY: Within 500M

COMMENTS: Located about 14 kilometres west-southwest of Revelstoke, just east

of Griffin Lake and the Trans Canada Highway.

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet Almandi
COMMENTS: Traces of chalcopyrite. Almandine

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer TYPE: C01 Industrial Min.

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Mafic Gneiss

Quartzite Schist Calc-silicate Pegmatite Peamatite Dike Mafic Felsic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The area of the Grffin Lake garnet occurrence is underlain by high grade metamorphic rocks of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex consisting of gneisses and schists with interlayers of quartzite, marble and calculicate rocks. Narrow lenses of pegmatite occur along bedding planes and as dikes along joints and faults. Fine grained felsic to mafic dikes occur in northwest trending, late fractures.

Garnets occur in an alluvial fan just east of Griffin Lake. A comparitive investigation was made of the Griffin Lake garnets and those of the Emerald Creek commercial garnet deposit in Idaho (Beaty

Geological Report, 1987 (located in Property File)).

The Griffin Lake or Revelstoke almandine garnets were considered to be comparable with the Emerald Creek garnets in almost every aspect except in their degree of fracturing and lack of euhedral crystals. This may be advantageous, however, as they may be capable of producing a sharper, more irregular and angular (ie, more abrasive) particle.

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EMPR PF (\*Investigation of Revelstoke Garnet, Beaty Geological Ltd.,

1987)

GSC MAP 143A; 1059A GSC MEM 296

GSC OF 481; 658

DATE CODED: 1998/11/18 CODED BY: GJP REVISED BY: GJP FIELD CHECK: N DATE REVISED: 1998/11/18 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW001

NATIONAL MINERAL INVENTORY:

NAME(S): FALKLAND, SALMON RIVER

STATUS: Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Kamloops

NTS MAP: 082L12E BC MAP:

LATITUDE: 50 30 40 N UTM ZONE: 11 (NAD 83) NORTHING: 5598573 EASTING: 319028

PAGE:

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LONGITUDE: 119 33 09 W ELEVATION: 884 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Several guarries on the northeast side of Bolean Creek, 1 kilometre north of Falkland (Minister of Mines Annual Report 1952).

COMMODITIES: Gypsum

Anhydrite

SIGNIFICANT: Gypsum ASSOCIATED: Pyrite

Anhydrite

Albite Quartz

Tourmaline

Calcite

STRIKE/DIP: 308/85N

**DEPOSIT** 

CHARACTER: Podiform

Stratabound

Massive

Shear

CLASSIFICATION: Volcanogenic Hydrothermal TYPE: G03 Volcanogenic anhydrite/gypsum

Industrial Min.

SHAPE: Bladed

Metres

TREND/PLUNGE:

DIMENSION: COMMENTS: Shear zones.

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic

MINERALIZATION AGE:

**GROUP** Nicola

**FORMATION** 

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Gypsum

Limy Argillite

Argillite

Schistose Volcanic Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

PHYSIOGRAPHIC AREA: Thompson Plateau

GRADE:

CAPSULE GEOLOGY

The Falkland gypsum deposits are located in a series of lenses along the northeast side of the Bolean Creek valley, north of Falkland.

Gypsum occurs along two parallel shear zones that are slightly discordant with a northwest striking and northeast dipping sequence of interbedded volcanic and argillaceous rocks of the Upper Triassic and? Lower Jurassic Nicola Group. The dip of the hostrocks varies from 45 degrees to vertical. The shear zones strike 308 degrees with

steep and vertical dips to the northeast.

Volcanic rocks consist of a series of flows that are dark grey to grey to black, medium grained, slightly schistose and composed primarily of amphibole. Beneath the flows are thin bedded, fine grained, limy argillites. Argillite close to the gypsum has been altered, generally in the form of colour changes; the colour changes from black to reddish brown. Within the alteration zone, pyrite and quartz stringers and veinlets are common. Underlying this unit are thin bedded, light green to greyish brown, brown-weathering argillites. The oldest rocks consist of hedded to the consist of hedded to t argillites. The oldest rocks consist of bedded tuffs and a lower sequence of interbedded black argillite and tuff.

Gypsum, which is conformable with the enclosing rock, occurs in a series of irregular, discontinuous lenses along strike for 2.4 kilometres. The irregular nature of these lenses, both in plan and vertical section, is partly attributed to displacement along the shear zones. It varies in colour from pure white through various shades of grey, grey and white banded, brown and white banded to reddish brown. Locally, the siliceous and argillaceous content reaches considerable proportions especially in certain banded and brecciated material. Variations are sharp but generally unpredictable. Also present within the gypsum, are inclusions of dark red-brown to orange-brown, severely fractured argillaceous rocks

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

that range in size from masses measuring 10 by 15 metres, down to dust size. These inclusions consist of a fine grained aggregate of quartz and albite, pyrite cubes, tiny tourmaline prisms and calcite in masses and small rhombs. At depths ranging between 20 and 35 metres gypsum grades abruptly into anhydrite. Mineable gypsum was generally confined to depths less than 25 metres.

In thin section, the gypsum consists of subhedral crystals, fibrous masses and aggregates of gypsum with various impurities. Also observed is anhydrite being replaced by gypsum. The gypsum remaining appears to be of high purity.

McCammon (Minister of Mines Annual Report 1952) believed that the gypsum formed by the hydrothermal replacement of argillites and tuffs along a shear zone. He based his interpretation on the fact that the gypsum is related to the shear zones. In thin section, he observed that gypsum was the last mineral to form and that it replaced all other minerals. The mineral assemblage observed was at least partially a hydrothermal suite. Cummings (1940) interpreted the gypsum to have formed by the replacement of limestone by sulphate solutions. This replacement was believed to have been related to volcanic activity. He was able to observe calcite crystals being replaced by gypsum. Anhydrite then formed as a result of the metamorphism of gypsum and then subsequently was re-hydrated to form gypsum in the uppermost parts of the deposit. Baird (1964) concluded that the gypsum-anhydrite bodies were deposited pre-Nicola as part of a sedimentary sequence and were later squeezed into their present position by plastic flow.

The gypsum deposits were first staked in 1894 with production beginning in 1926. Production was continuous through to 1956 during which time 1.25 million tonnes were produced. During the period 1976-1980, gypsum and anhydrite was mined intermittently from 7 quarries and trucked to the Canada Lafarge Cement plant, 18 kilometres east of Kamloops. There is still minor intermittent quarrying being done at these quarries, although these deposits are virtually mined out of gypsum. Anhydrite is still present in the deeper part of the quarries.

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   C229; 1930-A197; 1932-A285,A286; 1934-G40,G41,D29; 1935-D16, G32;
   1936-D58; 1939-A112; 1940-A98; 1941-A92, A93; 1942-A90, A91; 1943-
   A85, A86; 1944-A81, A82; 1945-A131; 1946-A204, A205; 1947-A214; 1948-
   A188; 1949-A255; 1950-A220; 1951-A219; *1952-251-257; 1953-A190;
   1954-A179; 1955-93; 1956-A152
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   October 1961, pp. 21,22; Cummings, J.M. (1940): Preliminary
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GSC ANN RPT 1888-89; 1895-37; 1931-96,97
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 226)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60;
   90-1E
CJES Vol.1, No.1, pp. 1-9 (Baird, 1964); Vol.21 (Oct.1984),
   pp. 1171-1193
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/15 REVISED BY: GO FIELD CHECK: Y

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

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MINFILE NUMBER: 082LNW002

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5640504 EASTING: 356450

IGNEOUS/METAMORPHIC/OTHER

 $\label{eq:NAME} \mbox{NAME(S): } \frac{\mbox{\bf BLUENOSE (NORTH)}}{\mbox{CYE}}, \mbox{ BLUENOSE 9, KAL,}$ 

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L14E

BC MAP: LATITUDE: 50 53 54 N LONGITUDE: 119 02 29 W

ELEVATION: 492 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main workings, located near the east shore of Shuswap Lake (Salmon Arm), between Quartzite Point and Hungry Cove, about 28 kilometres north-northeast of the community of Salmon Arm (Assessment Report

Massive

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Pyrrhotite Hornblende Garnet ALTERATION: Hornblende ALTERATION TYPE: Skarn Malachite Garnet Oxidation MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Skarn

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. Undefined Group

LITHOLOGY: Hornblende Skarn Marble Quartzite Para Gneiss Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

**FORMATION** 

**Eagle Bay** 

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Bluenose property is underlain by rocks of the Hadrynian? to Paleozoic Eagle Bay assemblage. These comprise quartzite, marble, hornblende-rich skarn and pink to grey paragneiss. In general, bedding or gneissosity dips at low angles to the east. The rocks are highly deformed and minor tight folds are very abundant.

The North zone is about 91 metres above the lake and is poorly

exposed over a length of 91 metres by several pits, cuts and trenches. It occurs in a hornblende-garnet? skarn with limy Pyrrhotite and chalcopyrite are irregularly distributed sections. over a width of at least 6 metres, with some fairly massive sections. A pit, about 30 metres southwest of the main trend of workings,

contains abundant malachite and minor chalcopyrite in a hornblende-rich skarn. Coarsely porphyritic dikes trending slightly east of north and dipping steeply, cut paragneiss about 61 metres

above this showing.

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EMPR FIELDWORK 1988, pp. 49-54 EMPR GEM 1969-239,240

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Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 164) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

BIBLIOGRAPHY

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/29 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LNW003

NATIONAL MINERAL INVENTORY:

NAME(S): **BLUENOSE (SOUTH)**, BLUENOSE 1, IRON MASK

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L14E

UTM ZONE: 11 (NAD 83)

LATITUDE: 50 53 19 N LONGITUDE: 119 02 34 W ELEVATION: 396 Metres NORTHING: 5639426 EASTING: 356322

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

64

LOCATION ACCURACY: Within 500M

BC MAP:

COMMENTS: Shaft, located near the east shore of Shuswap Lake (Salmon Arm), between Quartzite Point and Hungry Cove, about 28 kilometres

north-northeast of the community of Salmon Arm (Assessment Report

1635).

COMMODITIES: Copper

7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrrhotite

Sphalerite

Pyrite Hornblende

ALTERATION: Hornblende ALTERATION TYPE: Skarn

Malachite Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K01 Cu skarn

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

Proterozoic-Paleoz. Undefined Group **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Hornblende Skarn

Marble Quartzite Para Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The Bluenose property is underlain by rocks of the Hadrynian? to Paleozoic Eagle Bay assemblage. These comprise quartzite, marble, hornblende-rich skarn and pink to grey paragneiss. In general bedding or gneissosity dips at low angles to the east. The root The rocks are

highly deformed and minor tight folds are very abundant.

The South zone, about 61 metres above the lake, is exposed by two cuts, a shaft and an adit reported to be about 76 metres long. The entrance of this adit is badly caved, but it was reported to contain about 3 metres of highly oxidized sulphide near the shaft. Mineralization exposed on surface consists of pyrite, pyrrhotite, chalcopyrite and sphalerite in brecciated hornblende-rich skarn, over a width of about 7.6 metres. The zone of brecciation appears to strike north-northeast and dips steeply east. About 122 metres south of the main showing, two adits are driven into paragneiss and are both about 15 metres long. Minor sphalerite, chalcopyrite and pyrite is exposed at the entrance of the most southerly adit.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LNW004

NATIONAL MINERAL INVENTORY:

NAME(S): BLUENOSE (UPPER), KAL, CYE

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L14E BC MAP: LATITUDE: 50 53 21 N

LONGITUDE: 119 02 06 W ELEVATION: 678 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Shaft, located near the east shore of Shuswap Lake (Salmon Arm),

between Quartzite Point and Hungry Cove, about 28 kilometres north-northeast of the community of Salmon Arm (Assessment Report

1635).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz

ALTERATION: Hornblende

Pyrrhotite Malachite Oxidation

Pyrite

Hornblende

ALTERATION TYPE: Skarn MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K01 Cu skarn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

<u>GROUP</u>

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5639473 EASTING: 356871

REPORT: RGEN0100

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LITHOLOGY: Limy Skarn

Marble Para Gneiss Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

CAPSULE GEOLOGY

**BIBLIOGRAPHY** 

The Bluenose property is underlain by rocks of the Hadrynian? to Paleozoic Eagle Bay assemblage. These comprise quartzite, marble, hornblende-rich skarn and pink to grey paragneiss. In general, bedding or gneissosity dips at low angles to the east. The rocks are

highly deformed and minor tight folds are very abundant.

The Upper zone is on a relatively flat shelf above a series of high cliffs. The rock exposed along the cliffs is largely gently dipping paragneiss with sections of limy skarn and marble. The main showing is a shaft, partly collapsed and filled with water. Material on the dump is heavily mineralized with pyrrhotite and chalcopyrite, mostly in a guartz breccia. An addit 91 metres in length is about Material mostly in a quartz breccia. An adit, 91 metres in length, is about 61 metres vertically below the shaft and cuts paragneiss and marble dipping about 10 degrees east. Very minor pyrite and pyrrhotite are present in several patches. A second adit at the same elevation as the shaft and about 61 metres south, cuts entirely barren gneiss for 15 metres. A pit, about 91 metres south of the shaft, exposes light coloured quartz-rich marble with abundant malachite and minor chalcopyrite.

EMPR AR 1968-169

EMPR ASS RPT \*1635, 2021, 1360-EMPR FIELDWORK 1988, pp. 49-54 13604

EMPR GEM 1969-239,240

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GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 (Occurrence 167)

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/29 REVISED BY: GO FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW005

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

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NAME(S): <u>CAHILTY 1</u>, S.B., CAHILTY 4, HELEN

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L13W UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5648273 EASTING: 300996 LATITUDE: LONGITUDE: 119 50 00 W

ELEVATION: 1501 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Trench adjacent to a logging road, on the east slope of Mount

Cahilty, about 18 kilometres north-northwest of the community of

Chase (Assessment Report 17699).

COMMODITIES: Lead Zinc Silver Copper Gold

**MINERALS** 

Chalcopyrite SIGNIFICANT: Galena Sphalerite

ASSOCIATED: Quartz Pyrrhotite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Mount Ida

Tsalkom Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Phyllite

Limestone

Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: YEAR: 1982 Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 156.6000 1.3000 Grams per tonne Gold Grams per tonne Per cent Copper 0.0100 Per cent Lead 4.3700

Zinc 0.6200 REFERENCE: Assessment Report 11146, page 9.

**CAPSULE GEOLOGY** 

In the Cahilty 1 showing area, folded and faulted metasediments of the lower Paleozoic Tsalkom Formation (Mount Ida Group) are

Per cent

intruded by Cretaceous? quartz monzonite.

The main showing is located on the south side and adjacent to a logging road. It is exposed by trenching over a length of about 14 metres along a strike of 350 degrees and across a width of about 3 metres. The dip of this zone is about 60 degrees east. Lenses of pyrite, pyrrhotite with minor amounts of galena, sphalerite and chalcopyrite occur in a quartz vein hosted in phyllite. A chip sample assayed 4.37 per cent lead, 0.62 per cent zinc, 0.01 per cent copper, 156.6 grams per tonne silver and 1.3 grams per tonne gold (Assessment Report 11146, page 9). A similar showing is also exposed in a trench on the north side of the road, about 80 metres northeast of the main showing.

Sparsely disseminated sulphides (pyrite, chalcopyrite, galena and sphalerite) also occur in a crystalline limestone (marble) unit.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 126) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/15 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW006

NATIONAL MINERAL INVENTORY:

NAME(S): CAHILTY 7, HELEN, S.B.

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 50 57 58 N NORTHING: 5649840 EASTING: 302053

PAGE:

REPORT: RGEN0100

70

LONGITUDE: 119 49 09 W ELEVATION: 1524 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing located at the end of an old logging road, on the east slope of Mount Cahilty, about 19 kilometres north-northwest of the community of Chase (Assessment Report 1652).

COMMODITIES: Lead

Copper

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite ASSOCIATED: Quartz Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP** FORMATION IGNEOUS/METAMORPHIC/OTHER Paleozoic Mount Ida Tsalkom

Unnamed/Unknown Informal Cretaceous

LITHOLOGY: Quartz Monzonite

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

In the Cahilty 7 showing area, folded and faulted metasediments of the lower Paleozoic Tsalkom Formation (Mount Ida Group) are

intruded by Cretaceous? quartz monzonite.

A number of very sparsely mineralized quartz veins cut pyritic quartz monzonite. The quartz veins are subparallel, striking 080 degrees and dipping 70 degrees south. Several of the exposed veins contain minor galena and are up to 60 centimetres wide. In the vicinity of the veins, there is a minute amount of chalcopyrite In the

evident in tiny fractures.

**BIBLIOGRAPHY** 

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EMPR ASS RPT \*1652, 11146, 17699

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 126)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/15 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW007

NATIONAL MINERAL INVENTORY:

NAME(S): **BONNIE BRAE**, LOBO, JOHN

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L11W BC MAP:

Underground MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

LATITUDE: 50 39 57 N LONGITUDE: 119 17 36 W ELEVATION: 792 Metres

NORTHING: 5615175 EASTING: 337933

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, along the bank of Hobson Creek, on the northern slopes of Mount Ida, about 3.5 kilometres south of the community of Salmon Arm

(Assessment Report 12055).

COMMODITIES: Silver

7inc Lead

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite Pyrite

Pyrrhotite

ASSOCIATED: Quartz ALTERATION: Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

**GROUP** Mount Ida **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Paleozoic Cretaceous Mount Ida

Silver Creek Sicamous

Unnamed/Unknown Informal

LITHOLOGY: Mica Schist

Calcareous Phyllite Limestone Porphyritic Felsic Dike

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE:

CAPSULE GEOLOGY

The lower Paleozoic Sicamous Formation (Mount Ida Group) comprised of calcareous phyllite and limestone is underlain by schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). This sequence is intruded by altered Cretaceous? granites and capped by Eocene volcanics of the Kamloops Group.

The Bonnie Brae workings expose a reticulate system of quartz

veins striking north to northeast in highly sheared and fractured mica schists cut by porphyritic felsic dikes, adjacent to a granitic intrusion. Mineralization occurs along sheeted fracture zones and milky quartz veins and lenses 0.3 to 1.8 metres wide, and comprises pyrite, sphalerite and argentiferous galena. Pyrrhotite occurs locally in lower workings. Silicification is prevalent.

A number of opencuts along a northeast trend exposes a series of the quartz lenses. A tunnel had been driven for 21 metres in a general southerly direction, following the course of a porphyry dike which lies on the west side of a zone of shearing. Between 1967 and 1969, seven trenches were completed totalling 548 metres, and 2 diamond-drill holes were drilled totalling 609 metres.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/01 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

PAGE:

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW008

NATIONAL MINERAL INVENTORY:

NAME(S): MOUNT IDA, EVERGLADE, SILVER SCEPTRE, EXCELSIOR, LEAH ROSE, ALIDA,

EVA, WHITÉ CLIFF, MOUNTAIN VIEW,

MT. IDA

STATUS: Prospect REGIONS: British Columbia Underground

MINING DIVISION: Kamloops

NTS MAP: 082L11W 082L11E

UTM ZONE: 11 (NAD 83)

NORTHING: 5614864

EASTING: 341008

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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BC MAP: LATITUDE: 50 39 50 N

LONGITUDE: 119 14 59 W ELEVATION: 786 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits, on the northerly slopes of Mount Ida, about 4.5 kilometres south of the community of Salmon Arm (Assessment Report 8995).

COMMODITIES: Silver

Lead

Zinc

Gold

Platinum

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Pyrite

ASSOCIATED: Quartz

MINERALIZATION AGE:

Pyrite

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym

**Epigenetic** Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

Paleozoic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

**GROUP** Mount Ida

Mount Ida

**FORMATION** 

Silver Creek Sicamous

LITHOLOGY: Micaceous Schist

Quartzite Limestone Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

CAPSULE GEOLOGY

The lower Paleozoic Sicamous Formation (Mount Ida Group) comprised of calcareous phyllite and limestone is underlain by schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). This sequence is intruded by altered Cretaceous? granites and capped by Eocene volcanics of the Kamloops Group.

The rocks in the vicinity of the Mount Ida workings comprise

mica schist, grey gneiss, crystalline limestone and quartzite. Ir this sequence, a system of parallel quartz veins, from 0.4 to 2.1 metres wide, are mineralized with argentiferous galena, sphalerite and pyrite. These bodies occur at the contact between micaceous schist and quartzite, and between schist and limestone. The strike of these is approximately northeast with 65 degree to almost vertical dips to the southeast.

All the development work had been performed on the Everglade claim and consists of an upper adit 39 metres long, and a lower adit 70 metres long. Shafts, 4.8 and 4.5 metres respectively, had also been sunk. Opencuts have also been made.

In 1918, a chip sample of the sulphides in the quartz veins was taken at random from both walls of a lower tunnel (described to be on the White Cliff claim, but may in fact be the Everglade claim) and yielded 13.0 grams per tonne gold and 1.02 grams per tonne platinum (Munition Resources Commission, Final Report 1920, page 184).

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\*Munition Resources Commission, Final Report 1920, pp. 183-185

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/05 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW009

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

75

NAME(S): SUGAR LOAF, CHIEFTAN

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Vernon

NTS MAP: 082L11E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5612025 EASTING: 347074 LATITUDE: 50 38 24 N LONGITUDE: 119 09 46 W ELEVATION: 640 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located about 10 kilometres north of the community of Enderby.

COMMODITIES: Lead Gold

**MINERALS** 

Pyrite

SIGNIFICANT: Galena ASSOCIATED: Quartz

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au DIMENSION: 61 x 2 Metres STRIKE/DIP: 360/ TREND/PLUNGE:

COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Paleozoic Mount Ida Sicamous

LITHOLOGY: Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

At the Sugar Loaf showing, a tunnel approximately 18 metres in length had been driven on a well defined quartz vein about 2.1 metres wide. The vein strikes north and dips steeply west in a unit described as a quartzite formation, and has been traced for about 61 metres on surface. The vein is sparsely mineralized with pyrite and galena; gold values are reported to be associated with the pyrite.

Recent geology maps indicates the area is underlain by the lower Paleozoic Sicamous Formation (Mount Ida Group) near the contact with

Cretaceous? granodiorite.

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CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1995/05/30 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW010

NATIONAL MINERAL INVENTORY:

NAME(S): **GRANDVIEW** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L11E BC MAP: LATITUDE: 50 40 00 N

NORTHING: 5614990 EASTING: 347161

LONGITUDE: 119 09 46 W ELEVATION: 807 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located about 9 kilometres east-southeast of the community of Salmon

COMMODITIES: Lead Gold Silver

MINERALS SIGNIFICANT: Galena Pyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated Vein CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Mount Ida **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Sicamous

LITHOLOGY: Quartzite

Chloritic Phyllite Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

At the Grandview showing, two wide belts of north-trending quartzite form prominent ridges rising to a height of about 183 metres above the valley, in contact with chloritic phyllite and chlorite schist. Several prominent fracture sets cut the quartzite. Recent geology maps indicates this area is underlain by the lower Paleozoic Sicamous Formation (Mount Ida Group).

The principal work has been done on the steep face of the eastern belt of quartzite, at about 15 metres below the summit of the ridge. Here, an opening 1.5 by 1.5 metres extends into the cliff for 1 metre. It exposes a fracture zone striking 300 degrees and dipping 30 degrees north, and a weaker fracture system striking 290 degrees and dipping 45 degrees south. Minor fine galena and pyrite occur on the face of the old working. Narrow quartz segregations are present in the quartzite as bands 2-15 centimetres wide paralleling the 300

degrees, 30 degrees north dipping fractures.

Gold and silver values are reported to be associated with the galena and pyrite (Minister of Mines Annual Report 1928, page C211).

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CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1995/05/30 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW011

NATIONAL MINERAL INVENTORY:

NAME(S): LAST CHANCE, IRON MOUNTAIN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L11E

BC MAP: LATITUDE: 50 44 00 N LONGITUDE: 119 03 04 W ELEVATION: 365 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located along the Canadian Pacific Railway tracks near the western shore of Mara Lake, about 21 kilometres north of the community of

Enderby (Minister of Mines Annual Report 1926).

COMMODITIES: Gold

Silver

Lead

Underground

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal

**Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

FORMATION

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5622177 EASTING: 355257

REPORT: RGEN0100

77

Shuswap Metamorphic Complex

LITHOLOGY: Quartzofeldspathic Gneiss

Pelitic Schist Hornblende Sill Calc-silicate Gneiss

Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

CAPSULE GEOLOGY

At the Last Chance showing, several shafts, tunnels and opencuts have been sunk and driven alongside the track of the Canadian Pacific Railway, near the western shore of Mara Lake about 21 kilometres

north of the community of Enderby.

The hostrocks are described as the "lowest members" of the Shuswap Metamorphic Complex, comprising sediments and hornblende intrusive sills. There is a pronounced fracturing cutting the general northwesterly trend of the country rock, with a number of quartz veins and silicified seams. Some of these are reported to carry gold values (Minister of Mines Annual Report 1926, page A188). Recent geology maps indicates the area is underlain by Proterozoic and/or Paleozoic Shuswap assemblage quartzofeldspathic

gneiss, pelitic schist, calcsilicate gneiss and marble.

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CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1995/05/31 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW012

NATIONAL MINERAL INVENTORY:

NAME(S): ONYX

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

78

LATITUDE: 50 59 39 N

NORTHING: 5651727 EASTING: 337546

LONGITUDE: 119 18 54 W ELEVATION: 640 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located 6.4 kilometres up Onyx Creek from Shuswap Lake, about 32.5 kilometres northeast of the community of Chase (Minister of Mines

Annual Report 1934, page D29).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

**Undefined Group** Lower Cambrian

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone Greenstone

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Onyx showing area is underlain by pyritic greenstone and phyllite of the Lower Cambrian Johnson Lake unit of the Eagle Bay assemblage. The phyllite has been variably silicified with local development of abundant quartz veins and stringers.

The showing is described as "very high grade argentiferous"

galena associated with quartz in sedimentary rocks" and is hosted by

limestone.

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GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/23

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LNW013

NATIONAL MINERAL INVENTORY:

NAME(S): VICTORY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 45 43 N LONGITUDE: 119 02 19 W ELEVATION: 350 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, located about 3 metres above lake level (Mara Lake), on the south end of the promontory of Black Point, 19 kilometres east-

northeast of the community of Salmon Arm (Minister of Mines Annual

Report 1927).

COMMODITIES: Zinc.

Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Pyrite

Garnet ALTERATION: Sílica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Sedimentary

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5625334

EASTING: 356227

REPORT: RGEN0100

79

Shuswap Metamorphic Complex

LITHOLOGY: Garnetiferous Gneiss

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The Victory showing is a silicified zone, about 2.7 metres wide, that contains minor disseminated sphalerite and pyrite, and which is hosted in garnetiferous gneiss of the Proterozoic and/or Paleozoic Shuswap assemblage. The zone strikes about 325 degrees across Black Point, a promontory about 2 kilometres in length that juts into Mara Lake on the west side. The zone is characterized by considerable development of pegmatite.

A tunnel had been driven along this zone for 8.5 metres from a point at the south end of the promontory, at about 3 metres above the level of the lake. It followed a well-defined hangingwall with a northerly strike and dip to the west. At a distance of a metre from the portal, sphalerite was reported to be distributed in small quantities throughout the whole width of the zone. A shipment of about 37 tonnes of this material was made to the Trail smelter. Returns from this shipment were not available, but it is understood that they did not come up to the owner's expectations (Minister of Mines Annual Report 1927, page C198).

A sample taken across 2.4 metres of the silicified zone, at the

face of the tunnel, assayed trace gold, 6.8 grams per tonne silver and nil zinc (Minister of Mines Annual Report 1927, page C198).

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MINFILE MASTER REPORT

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW014

NATIONAL MINERAL INVENTORY:

NAME(S): SHU

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 50 57 42 N NORTHING: 5648401 EASTING: 328519

PAGE:

REPORT: RGEN0100

81

LONGITUDE: 119 26 31 W ELEVATION: 975 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample site, east of Scotch Creek, about 23.5 kilometres northeast of

the community of Chase (Assessment Report 15427).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION: Limonite

Hematite

ALTERATION TYPE: Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

Epigenetic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

**Undefined Group** Lower Cambrian

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Siltstone

Sandstone

Quartz Sericite Schist Chloritic Phyllite Limestone Meta Chert Argillite Conglomerate Chlorite Schist Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1986

**GRADE** COMMODITY Gold

1.3000 Grams per tonne

REFERENCE: Assessment Report 15427, page 30.

CAPSULE GEOLOGY

The Shu property is underlain by a west to northwest trending sequence of greenschist facies rocks of the Lower Cambrian Johnson Lake unit of the Eagle Bay assemblage. Four main rock units are recognized and comprise chloritic phyllite including metavolcanic rocks, limestone, metachert?, and argillite with lesser sandstone and pebble to cobble conglomerate. Locally, there are dacitic and rhyolitic as well as feldspar porphyritic basaltic dikes.

Pyrite occurs as disseminated, oxidized, euhedral porphyroblasts in various rock types. Coarse to finely disseminated pyrite occurs in quartz sericite schists, quartz veins, chlorite schists, greenstones and fractures. Limonite staining and limonite-lined, cubic vugs are very common. Hematite and specular hematite occur to a lesser degree.

Chip sample 2773 taken from an altered, interlaminated siltstone with fine-grained sandstone analysed 1.3 grams per tonne gold. Sample 2774 is from a hematitic quartz sericite schist and analysed 0.61 gram per tonne gold (Assessment Report 15427, pages 30, 31).

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1995/06/22 FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

Copper

MINFILE NUMBER: 082LNW015

NATIONAL MINERAL INVENTORY:

Gold

NAME(S): **IRON POT**, PEARLMARIE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5649323 EASTING: 326832

PAGE:

REPORT: RGEN0100

Nickel

83

LATITUDE: 50 58 10 N LONGITUDE: 119 27 59 W ELEVATION: 609 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization in a small unnamed creek that flows into Scotch Creek, about 23 kilometres northeast of the community of Chase (Assessment

Zinc

Report 5682).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Chalcopyrite

MINERALIZATION AGE:

ASSOCIATED: Quartz

Pyrrhotite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

Paleozoic Undefined Group **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Schist

Dike

Basaltic Dike Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

METAMORPHIC TYPE: Regional

RELATIONSHIP:

**CAPSULE GEOLOGY** 

The Iron Pot showing is located on the bank of a small creek which flows into Scotch Creek from the west. The country rock is described as schist with flat dips to the south. The schist is cut by several dikes.

A number of mineralized quartz veins striking east and dipping south are exposed in the bed of the creek. Mineralization comprises pyrrhotite with some galena and sphalerite. The veins lie within a zone about 122 metres wide. The best showing is at the highest point on the side of the hill on the footwall of the zone. Two short tunnels had been driven at this point on a vein 0.6 metre wide. It has been reported that "some fair gold values have been obtained from the lower seams and that nickel is also found with the pyrrhotite" (Minister of Mines Annual Report 1930, page A189).

Later prospecting (circa 1975) describes a quartzite intruded by basaltic dikes, both dipping steeply to the north-northeast. The dikes contain chalcopyrite mineralization which has spread into the quartzite.

The area of the showing is underlain by the Devonian and/or older? Woolford Creek unit and Devonian Skwaam Bay unit, both of the Eagle Bay assemblage.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/21 REVISED BY: GO FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW016

NATIONAL MINERAL INVENTORY:

NAME(S): SCOTCH CREEK, SHUSWAP

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

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LATITUDE: 50 58 15 N

NORTHING: 5649406 EASTING: 328982

LONGITUDE: 119 26 09 W ELEVATION: 807 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trenches located between Scotch and Hlina creeks, about 24.5 kilometres northeast of the community of Chase (Assessment Report

16191).

Sericite

COMMODITIES: Gold Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite Hematite Galena Chalcopyrite ASSOCIATED: Silica ALTERATION: Magnetite Jasper Quartz Calcite Carbonate Hematite Pyrite Quartz Carbonate

Malachite ALTERATION TYPE: Oxidation Sericitic Carbonate

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Stratiform Stratabound Vein CLASSIFICATION: Volcanogenic Hydrothermal

Epigenetic 105 TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Folded

DIMENSION: 1300 x 5 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Iron formation.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Lower Cambrian GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Mafic Intermediate Volcanic

Chert Mudstone Tuff Agglomerate Limestone Meta Limestone Marble

Chlorite Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1987 Assay/analysis

**GRADE** COMMODITY

Silver 29.0000 Grams per tonne 9.0500 Grams per tonne

COMMENTS: Highest values across 0.22 metre of iron formation.

REFERENCE: Assessment Report 16191, page i.

CAPSULE GEOLOGY

The Scotch Creek property is underlain by the Lower Cambrian Johnson Lake unit of the Eagle Bay assemblage. The dominant rock type on the property is a pyritic, mafic to intermediate volcanic unit which has undergone greenschist facies metamorphism. Typically, exposures are weakly to well foliated, dark green to grey, calcareous and spotted with calcite and/or iron carbonate rhombs. Overprinting the greenschist metamorphism is locally intense quartz-carbonatesericite alteration, probably associated with hydrothermal activity along shear zones and fracture systems. Although exposures showing

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

primary textures, specifically fragments and amygdules, are very rare, original lithologies ranging from mudstones, possibly of volcanic origin, to thin-bedded tuff and agglomerate to flows are observed. A quartz vein, 15 centimetres wide, cuts variably calcareous chlorite-sericite schist and is mineralized with pyrite, chalcopyrite, galena and malachite.

Two distinct and apparently unrelated limestone or meta-limestone/marble units have been mapped. The first is massive, white to beige, fine to coarse-grained limestone. Stockwork quartz veins, up to 20 centimetres wide, cut the limestone with northwest strikes and steep southwest dips. An old shaft explores chalcopyrite-pyrite-galena mineralization in stockwork quartz veins. This shaft may be the shaft referred to as the Shuswap showing in Minister of Mines Annual Report 1934. The Shuswap group of claims was described as being situated 1.6 kilometres south of Sturdy's ranch. Several opencuts and two adits have been driven on a 1.8-metre wide quartz vein containing segregations of galena and pyrite in schistose rocks (Minister of Mines Annual Report 1934, page D29).

The second limestone is grey to black, translucent and cryptocrystalline to medium grained. Exposure is relatively scarce, but the limestone is typically cut by quartz and/or calcite veins which may carry trace pyrite.

A pyritic, ferruginous chert horizon (siliceous oxide facies iron formation) has been traced and tested by diamond drilling over a strike length of at least 1300 metres. Typical exposures are mottled grey and black to mottled grey and purple. Generally, it is aphanitic to fine grained with locally intense quartz-carbonate veining. Banding is visible locally. Iron mineralization includes local jasper to 10 per cent, magnetite to 50 per cent and hematite to 30 per cent. Pyrite content ranges from trace amounts to 15 per cent and occurs as disseminated cubes between 0.5 and 8 millimetres. Traces of chalcopyrite are present locally. The unit is somewhat discontinuous, ranges in apparent thickness between 1 and 5 metres, and resembles an overturned "V" in plan view.

Samples of iron formation taken from drill core analysed up to 9.05 grams per tonne gold and 29.0 grams per tonne silver over 0.22 metre, and 1.21 grams per tonne gold and 1.1 grams per tonne silver over 5.46 metres (Assessment Report 16191, page i). The iron formation has been folded and re-folded into an overturned anticline which plunges to the northwest. Gold grades increase towards the hinge zone.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW017

NATIONAL MINERAL INVENTORY:

NAME(S): **COPPER ISLAND** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 54 32 N

NORTHING: 5642448 EASTING: 330922

LONGITUDE: 119 24 18 W ELEVATION: 365 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: South part of Copper Island, in Shuswap Lake, about 23 kilometres

northeast of the community of Chase.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Malachité ALTERATION TYPE: Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Devonian Undefined Group Eagle Bay

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Bright copper stain is observed on the south side of Copper Island where disseminated chalcopyrite is hosted in a 1.8-metre wide band of chlorite schist, near a fault zone. The hostrock is part of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage.

Copper Island is part of Shuswap Lake Provincial Park.

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CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/27 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW018

NATIONAL MINERAL INVENTORY:

NAME(S): COPPER CUP, JEN, COPPER NUGGET

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W

Underground

MINING DIVISION: Kamloops

BC MAP: LATITUDE: 50 52 47 N

NORTHING: 5639040 EASTING: 335974

UTM ZONE: 11 (NAD 83)

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LONGITUDE: 119 19 54 W ELEVATION: 701 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, situated on a hill between Little White Lake to the east and Blind Bay of Shuswap Lake to the west, about 20 kilometres north of the community of Salmon Arm (Assessment Report 13378).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Silica Pyrite ALTERATION TYPE: Silicific'n

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Undefined Group Devonian

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Surface and underground work (pits, trenches, tunnels) were completed between 1928 and 1930 on the Copper Cup, Copper Chief (082LNW019) and Vimy (082LNW020) showings. The Copper Chief adjoined the Copper Cup to the east, and the Vimy adjoined the Copper Cup to the southeast.

At the Copper Cup showing, northwest trending silicified zones traverse west striking, north dipping (35 degrees) chlorite schist of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage. These zones contain small bodies of chalcopyrite and pyrite associated with quartz seams and cut the hostrock obliquely. Some disseminated mineralization also occurs.

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/28 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LNW019

NATIONAL MINERAL INVENTORY:

NAME(S): **COPPER CHIEF**, JEN, COPPER NUGGET

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

LATITUDE: 50 53 00 N LONGITUDE: 119 19 42 W ELEVATION: 792 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, situated on a hill between Little White Lake to the east and Blind Bay of Shuswap Lake to the west, about 20 kilometres north of the community of Salmon Arm (Assessment Report 3429).

COMMODITIES: Copper

MINERALS

SIGNIFICANT: Chalcopyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Shear CLASSIFICATION: Hydrothermal TYPE: 105 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

Devonian Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PHYSIOGRAPHIC AREA: Shuswap Highland

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5639434 EASTING: 336222

REPORT: RGEN0100

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LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE:

CAPSULE GEOLOGY

Surface and underground work (pits, trenches, tunnels) were completed between 1928 and 1930 on the Copper Cup, Copper Chief (082LNW019) and Vimy (082LNW020) showings. The Copper Chief adjoined the Copper Cup to the east, and the Vimy adjoined the Copper Cup to the southeast.

At the Copper Chief showing, disseminated chalcopyrite occurs throughout a wide zone near a shear zone in west striking, north dipping (35 degrees) chlorite schist of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage.

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/28

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW020

NATIONAL MINERAL INVENTORY:

NAME(S): VIMY, JEN, COPPER NUGGET

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

Underground MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 50 52 50 N LONGITUDE: 119 19 19 W ELEVATION: 594 Metres NORTHING: 5639111 EASTING: 336661

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LOCATION ACCURACY: Within 500M

COMMENTS: Adit, situated on a hill between Little White Lake to the east and Blind Bay of Shuswap Lake to the west, about 20 kilometres north of the community of Salmon Arm (Assessment Report 3429).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz ALTERATION: Silica Pyrite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Devonian **Undefined Group** Eagle Bay

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Surface and underground work (pits, trenches, tunnels) were completed between 1928 and 1930 on the Copper Cup, Copper Chief (082LNW019) and Vimy (082LNW020) showings. The Copper Chief adjoined the Copper Cup to the east, and the Vimy adjoined the Copper Cup to the southeast.

At the Vimy showing, silicified zones traverse west striking, north dipping (35 degrees) chlorite schist of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage. These zones contain small bodies of chalcopyrite and pyrite associated with

quartz seams which cut the hostrock obliquely.

A sample taken from some of the best ore assayed 0.34 gram per tonne gold, 13.7 grams per tonne silver and 14.4 per cent copper (Minister of Mines Annual Report 1928, page C211).

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DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1995/06/28 REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW021

NATIONAL MINERAL INVENTORY: 082L14 Pb1

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NAME(S): ANNIS (MAIN), ANNIS 5,6, LARCH HILLS, ANNIS MINES, LG

STATUS: Prospect Underground MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L14E UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5628918 EASTING: 355170 LATITUDE: LONGITUDE: 119 03 18 W

ELEVATION: 835 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit in the Larch Hills, between Shuswap and Mara lakes, about 19 kilometres northeast of the community of Salmon Arm (Property

File - Sketch map of trenches and drillholes, 1966).

COMMODITIES: Lead Zinc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Pyrrhotite Sphalerite Chalcopyrite

Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive Stratabound

CLASSIFICATION: Sedimentary

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Biotite Schist

Lead

Quartz Mica Schist Quartzite Micaceous Quartzite

Granitic Dike Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**RELATIONSHIP:** GRADE: METAMORPHIC TYPE: Regional

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1966 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** Grams per tonne Silver 143.9000 13.0000

Per cent Zinc 4.3000 COMMENTS: Samples of sulphides from trenches A to J in the main showing area

across widths that varied from 0.6 to 3.3 metres. Lead assayed from

1.1 to 13 per cent, zinc from trace to 4.3 per cent, and silver

from trace to 143.9 grams per tonne. REFERENCE: Property File - Sketch map of trenches and drillholes, 1966.

**CAPSULE GEOLOGY** 

The Annis showings are underlain by quartzite, micaceous quartzite and quartz mica schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). The mica schists are the most common rock type observed. Muscovite is dominant in these schists, however, lenses rich in biotite and chlorite have been observed. Intercalated with the mica schists are lenses of massive, generally fine grained, micaceous quartzite. Narrow, granitic and pegmatite dikes are common, in places cutting the local planes of schistosity. Observed schistosity attitudes are variable, with strikes ranging from 070 to 145 degrees and dipping from 40 to 50 degrees to the north.

Per cent

Within the workings area, the rocks consist of alternating, comparatively thin bands of quartzite and quartz mica schist. quartz mica schist is largely a biotite schist, but bands do occur

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

where the mica is entirely muscovite or muscovite-sericite. In places, this becomes an almost pure muscovite or sericite schist. The rock units are from several centimetres to a couple of tens of metres thick.

Mineralization consists of massive to semi-massive sulphides made up of galena, sphalerite, minor chalcopyrite, pyrite and considerable pyrrhotite. Sulphide bands are found in biotite schist, usually with quartzite, and appear conformable to bedding. These bands vary from several centimetres to 1 metre wide. Locally, closely spaced sulphide bands occur over a 3 to 3.6 metre width.

Samples of sulphides from trenches A to J in the main showing area assayed from 1.1 to 13 per cent lead, trace to 4.3 per cent zinc and trace to 143.9 grams per tonne silver, across widths that varied from 0.6 to 3.3 metres (Sketch map of trenches, 1966).

The main Annis showing (this description) is developed by an adit 48 metres long and by several pits (A to J). Three southernmost trenches/pits (2, 3 and 6) comprise the Annis 11 showing (082LNW025), and are located 304 metres south of the adit. Trench 5, 122 metres north of the Annis 11 showing, comprises the Annis 5 showing (082LNW024). Three pits/trenches (K to M), about 182 metres north-northwest of the adit, comprises the Annis 8 showing (082LNW023) (Sketch map of trenches, 1966).

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CJES Vol.19 (Feb.1982), pp. 288-307; Vol.21 (Oct.1984), pp. 1171-1193

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/07/06 REVISED BY: GO FIELD CHECK: N

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW022

NATIONAL MINERAL INVENTORY:

NAME(S): **SUNSET**, MILLER

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L11W BC MAP:

LATITUDE: 50 39 35 N LONGITUDE: 119 18 31 W ELEVATION: 807 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the north bank of Rumball Creek, on the northern slopes of Mount Ida, about 5 kilometres south of the community of Salmon Arm

(Assessment Report 12055).

COMMODITIES: Silver Tin

Lead Antimony

Sericitic

Zinc Platinum

Underground

Copper

Gold

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5614529 EASTING: 336832

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**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

ALTERATION: Silica
ALTERATION TYPE: Silicific'n

Sphalerite Pyrite Quartz

Chalcopyrite Clay Sericite

Pyrite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

Shear nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

MINERALIZATION AGE:

Proterozoic-Paleoz. Paleozoic Cretaceous

<u>GROUP</u> Mount Ida Mount Ida **FORMATION** 

Silver Creek Sicamous

RELATIONSHIP:

Unnamed/Unknown Informal

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Micaceous Meta Sediment/Sedimentary

Calcareous Meta Sediment/Sedimentary

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

INVENTORY

ORE ZONE: TRENCH

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

YFAR: 1990

COMMODITY **GRADE** 

Per cent Copper 0.1800 Per cent Lead 13.6500 0.1700 Per cent Antimony Tin 0.5800 Per cent 7inc 0.3500 Per cent

COMMENTS: A 2-metre true width sample across a quartz vein zone in phyllic alteration.

REFERENCE: Assessment Report 19867, page 11.

**CAPSULE GEOLOGY** 

The lower Paleozoic Sicamous Formation (Mount Ida Group) comprised of calcareous phyllite and limestone is underlain by schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). This sequence is intruded by altered Cretaceous? granites and capped by Eocene volcanics of the Kamloops Group.

The Miller tunnel, about 83 metres long, is in strongly fractured and silicified, micaceous metasediments less than 20 metres north of a granitic intrusion. The tunnel follows a northeasterly trending shear containing a quartz vein system mineralized with sphalerite, galena, chalcopyrite and pyrite. In 1918, a 1.4-metre sample across the full width of the face (at the bottom) analysed 8.2 grams per tonne gold and 0.68 gram per tonne platinum. Another sample from a mineralized streak, 3.8 centimetres wide, in the face,

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

analysed 4.7 grams per tonne gold and 1.02 grams per tonne platinum (Munition Resources Commission, Final Report 1920, page 185). Recent work has failed to duplicate the gold and platinum values.

Trenches expose strongly altered and fractured micaceous and locally calcareous metasedimentary rocks. Original textures are obscured by strong silicification or phyllic alteration (quartz-clay-sericite-pyrite). A number of milky quartz veins trending east to northeast cut both types of alteration. They locally reach 20 centimetres in width, though generally are much narrower and in swarms with blebs of pyrite, galena, sphalerite and some finer chalcopyrite. A 2.0-metre true width sample across a quartz vein zone in phyllic alteration yielded 13.65 per cent lead, 0.18 per cent copper, 0.35 per cent zinc, 0.58 per cent tin and 0.17 per cent antimony (Assessment Report 19867, page 11).

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CJES Vol.21 (Oct.1984), pp. 1171-1193
Munition Resources Commission, Final Report 1920, pp. 183-185

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/02 REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW023

NATIONAL MINERAL INVENTORY: 082L14 Pb1

PAGE:

NORTHING: 5629170 EASTING: 354981

REPORT: RGEN0100

95

NAME(S): ANNIS 8, ANNIS 7,8, LARCH HILLS, ANNIS MINES, LG

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L14E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 47 46 N LONGITUDE: 119 03 28 W ELEVATION: 777 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Pit L showing in the Larch Hills, between Shuswap and Mara lakes,

about 19 kilometres northeast of the community of Salmon Arm

(see Annis (Main), 082LNW021 - Sketch map of trenches and drillholes, 1966).

COMMODITIES: Lead Silver Zinc Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite

ASSOCIATED: Pyrrhotite Pyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Stratabound

CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Biotite Schist

Quartz Mica Schist Quartzite Micaceous Quartzite Granitic Dike Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Annis showings are underlain by quartzite, micaceous quartzite and quartz mica schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). The mica schists are the most common rock type observed. Muscovite is dominant in these schists, however, lenses rich in biotite and chlorite have been observed. Intercalated with the mica schists are lenses of massive, generally fine grained, micaceous quartzite. Narrow, granitic and pegmatite dikes are common, in places cutting the local planes of schistosity. Observed schistosity attitudes are variable, with strikes ranging from 070 to 145 degrees and dipping from 40 to 50 degrees to the north.

Within the workings area, the rocks consist of alternating comparatively thin bands of quartzite and quartz mica schist. quartz mica schist is largely a biotite schist, but bands do occur where the mica is entirely muscovite or muscovite-sericite. places, this becomes an almost pure muscovite or sericite schist. The rock units are from several centimetres to a couple of tens of metres thick.

Mineralization consists of massive to semi-massive sulphides made up of galena, sphalerite, minor chalcopyrite, pyrite and considerable pyrrhotite. Sulphide bands are found in biotite schist, usually with quartzite, and appear conformable to bedding. bands vary from several centimetres to 1 metre wide. Locally, closely spaced sulphide bands occur over a 3 to 3.6 metre width.

Drillholes 11 and 12 in Pit L intersected a zone of mineralization 3.6 metres thick, in which individual sulphide bands 0.9 to 1.2 metres wide, assayed from 0.5 to 2.9 per cent combined lead-zinc (see Annis (Main), 082LNW021 - Prospectus, Annis Mines Ltd., May 4, 1966).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The main Annis showing (082LNW021) is developed by an adit 48 metres long and by several pits (A to J). Three southernmost trenches/pits (2, 3 and 6) comprise the Annis 11 showing (082LNW025), and are located 304 metres south of the adit. Trench 5, 122 metres north of the Annis 11 showing, comprises the Annis 5 showing (082LNW024). Three pits/trenches (K to M), about 182 metres north-northwest of the adit, comprises the Annis 8 showing (this description) (see Annis (Main), 082LNW021 - Sketch map of trenches, 1966).

### **BIBLIOGRAPHY**

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EMPR AR 1964-105; 1965-205,206; \*1966-146-148; 1967-135
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EMPR EXPL 1976-E57,E58
EMPR FIELDWORK 1988, pp. 49-54
EMPR GEM 1970-319; 1973-103,104
EMPR OF 1990-30
EMPR PF ((see Annis (Main), 082LNW021 for Drill sections; Claim location map; Geological plan map of adit; Location map of trenches and diamond-drill holes; Photographs of camp and adit portal; Prospectus, May 4, 1966, Annis Mines Ltd.); General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)
EMR MP CORPFILE (Annis Mines Ltd.)
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 173)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
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Statement of Material Facts, Jan. 1976, Sicamous Resources Ltd.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1995/07/07 REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW024

NATIONAL MINERAL INVENTORY: 082L14 Pb1

PAGE:

NORTHING: 5628730 EASTING: 355243

REPORT: RGEN0100

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 $\mathsf{NAME}(\mathsf{S}) : \ \, \frac{\mathsf{ANNIS} \ \mathsf{5}}{\mathsf{LG}}, \ \, \mathsf{LARCH} \ \mathsf{HILLS}, \ \, \mathsf{ANNIS} \ \mathsf{MINES},$ 

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L14E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 47 32 N LONGITUDE: 119 03 14 W ELEVATION: 841 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Trench 5 showing in the Larch Hills, between Shuswap and Mara lakes,

about 19 kilometres northeast of the community of Salmon Arm

(see Annis (Main), 082LNW021 - Sketch map of trenches and drillholes, 1966).

COMMODITIES: Lead Silver Zinc Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite

ASSOCIATED: Pyrrhotite Pyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Biotite Schist

Quartz Mica Schist Quartzite Micaceous Quartzite Granitic Dike Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Annis showings are underlain by quartzite, micaceous quartzite and quartz mica schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). The mica schists are the most common rock type observed. Muscovite is dominant in these schists, however, lenses rich in biotite and chlorite have been observed. Intercalated with the mica schists are lenses of massive, generally fine grained, micaceous quartzite. Narrow, granitic and pegmatite dikes are common, in places cutting the local planes of schistosity. Observed schistosity attitudes are variable, with strikes ranging from 070 to 145 degrees and dipping from 40 to 50 degrees to the north.

Within the workings area, the rocks consist of alternating comparatively thin bands of quartzite and quartz mica schist. quartz mica schist is largely a biotite schist, but bands do occur where the mica is entirely muscovite or muscovite-sericite. places, this becomes an almost pure muscovite or sericite schist. The rock units are from several centimetres to a couple of tens of metres thick.

Mineralization consists of massive to semi-massive sulphides made up of galena, sphalerite, minor chalcopyrite, pyrite and considerable pyrrhotite. Sulphide bands are found in biotite schist, usually with quartzite, and appear conformable to bedding. bands vary from several centimetres to 1 metre wide. Locally, closely spaced sulphide bands occur over a 3 to 3.6 metre width.

Grab samples from trench 5 assayed from 1.15 to 1.75 per cent lead, 0.42 to 0.8 per cent zinc and 3.4 to 22.2 grams per tonne silver (see Annis (Main), 082LNW021 - Sketch map of trenches, 1966).

The main Annis showing (082LNW021) is developed by an adit 48 metres long and by several pits (A to J). Three southernmost

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

trenches/pits (2, 3 and 6) comprise the Annis 11 showing (082LNW025), and are located 304 metres south of the adit. Trench 5, 122 metres north of the Annis 11 showing, comprises the Annis 5 showing (this description). Three pits/trenches (K to M), about 182 metres north-northwest of the adit, comprises the Annis 8 showing (082LNW023) (see Annis (Main), 082LNW021 - Sketch map of trenches, 1966).

### **BIBLIOGRAPHY**

EMPR AR 1964-105; 1965-205,206; \*1966-146-148; 1967-135
EMPR ASS RPT 4453, 5864, 6621, 10745, 15523, 18701, \*19824
EMPR EXPL 1976-E57,E58
EMPR FIELDWORK 1988, pp. 49-54
EMPR GEM 1970-319; 1973-103,104
EMPR OF 1990-30
EMPR PF ((see Annis (Main), 082LNW021 for Drill sections; Claim location map; Geological plan map of adit; Location map of trenches and diamond-drill holes; Photographs of camp and adit portal; Prospectus, May 4, 1966, Annis Mines Ltd.); General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)
EMR MP CORPFILE (Annis Mines Ltd.)
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 173)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
CJES Vol.19 (Feb.1982), pp. 288-307; Vol.21 (Oct.1984), pp. 1171-1193
Statement of Material Facts, Jan. 1976, Sicamous Resources Ltd.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1995/07/07 REVISED BY: GO FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW025

NATIONAL MINERAL INVENTORY: 082L14 Pb1

PAGE:

REPORT: RGEN0100

aa

NAME(S):  $\frac{\text{ANNIS 11}}{\text{LG}}$ , LARCH HILLS, ANNIS MINES,

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L14E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 47 28 N LONGITUDE: 119 03 15 W NORTHING: 5628607 EASTING: 355220

ELEVATION: 838 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Pit 2 in the Larch Hills, between Shuswap and Mara lakes, about 19

kilometres northeast of the community of Salmon Arm (see Annis (Main), 082LNW021 - Sketch map of trenches and drillholes,

COMMODITIES: Lead Silver Zinc Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite

ASSOCIATED: Pyrrhotite Pyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Stratabound

CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Biotite Schist

Quartz Mica Schist Quartzite Micaceous Quartzite Granitic Dike Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Annis showings are underlain by quartzite, micaceous quartzite and quartz mica schist of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). The mica schists are the most common rock type observed. Muscovite is dominant in these schists, however, lenses rich in biotite and chlorite have been observed. Intercalated with the mica schists are lenses of massive, generally fine grained, micaceous quartzite. Narrow, granitic and pegmatite dikes are common, in places cutting the local planes of schistosity. Observed schistosity attitudes are variable, with strikes ranging from 070 to 145 degrees and dipping from 40 to 50 degrees to the north.

Within the workings area, the rocks consist of alternating, comparatively thin bands of quartzite and quartz mica schist. The quartz mica schist is largely a biotite schist, but bands do occur where the mica is entirely muscovite or muscovite-sericite. places, this becomes an almost pure muscovite or sericite schist. The rock units are from several centimetres to a couple of tens of metres thick.

Mineralization consists of massive to semi-massive sulphides made up of galena, sphalerite, minor chalcopyrite, pyrite and considerable pyrrhotite. Sulphide bands are found in biotite schist, usually with quartzite, and appear conformable to bedding.

bands vary from several centimetres to 1 metre wide. Locally, closely spaced sulphide bands occur over a 3 to 3.6 metre width.

Grab samples from pit 2 assayed 1.27 to 2.85 per cent lead, 1.8 to 2.9 per cent zinc and 17.1 to 27.4 grams per tonne silver (see Annis (Main), 082LNW021 - Sketch map of trenches, 1966).

The main Annis showing (082LNW021) is developed by an adit 48 metres long and by several pits (A to J). Three southernmost

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

trenches/pits (2, 3 and 6) comprise the Annis 11 showing (this description), and are located 304 metres south of the adit. Trench 5, 122 metres north of the Annis 11 showing, comprises the Annis 5 showing (082LNW024). Three pits/trenches (K to M), about 182 metres north-northwest of the adit, comprises the Annis 8 showing (082LNW023) (see Annis (Main), 082LNW021 - Sketch map of trenches, 1966).

### **BIBLIOGRAPHY**

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EMPR FIELDWORK 1988, pp. 49-54
EMPR GEM 1970-319; 1973-103,104
EMPR OF 1990-30
EMPR PF ((see Annis (Main), 082LNW021 for Drill sections; Claim location map; Geological plan map of adit; Location map of trenches and diamond-drill holes; Photographs of camp and adit portal; Prospectus, May 4, 1966, Annis Mines Ltd.); General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)
EMR MP CORPFILE (Annis Mines Ltd.)
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 173)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
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Statement of Material Facts, Jan. 1976, Sicamous Resources Ltd.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1995/07/07 REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

Open Pit

MINFILE NUMBER: 082LNW026

NATIONAL MINERAL INVENTORY:

NAME(S): QUARTZITE POINT, SHUSWAP LAKE

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 54 53 N LONGITUDE: 119 02 28 W ELEVATION: 365 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quartzite Point is located on the east shore of Salmon Arm of Shuswap Lake, about 29 kilometres northeast of the community of Salmon Arm

(Open File 1987-15).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Silica MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary TYPE: R07 Silica

Silica sandstone

DIMENSION: 275 x 9

COMMENTS: Quartzite band.

Massive Industrial Min.

STRIKE/DIP: Metres

TREND/PLUNGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5642326 EASTING: 356520

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

TRATIGRAPHIC AGE Proterozoic-Paleoz.

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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LITHOLOGY: Quartzite Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

REPORT ON: N

Per cent

YEAR: 1928

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

INVENTORY

ORE ZONE: TRENCH

Assav/analysis

SAMPLE TYPE: Chip

45.9000

COMMENTS: Representative sample. REFERENCE: Open File 1987-15, page 23.

CATEGORY:

COMMODITY Silica

**CAPSULE GEOLOGY** 

The Quartzite Point occurrence is located close to the east shore of Shuswap Lake, about 9.4 kilometres northwest of Sicamous.

Quartzite occurs as a band, 7.6 to 9.1 metres thick, between layers of gneiss within the Hadrynian? to Paleozoic Eagle Bay assemblage. It is exposed for 275 metres and trends northeasterly with a gentle dip to the southeast. The quartzite is medium grained and white to glassy, with patches of brown stain on fracture surfaces.

In 1928, one sample reported as a representative sample from a trench, assayed 98.20 per cent SiO2, 0.12 per cent Fe2O3, 0.77 per cent Al2O3, 0.57 per cent CaO, 0.34 per cent MgO and 0.17 per cent LOI. In 1958, another chip sample taken across the width of the quarry exposure assayed 97.48 per cent SiO2, 0.59 per cent Al2O3 and 0.02 per cent Fe (Open File 1987-15, pages 23,24).

Development work consisted of a quarry 12 by 4.5 metres, pits, stripping, two adits (7.6 metres and 18.2 metres) and a crushing plant. A shipment of 90 tonnes was made in 1923 and an unknown amount around 1962-1965. In 1928, one sample reported as a representative sample from a

**BIBLIOGRAPHY** 

EMPR AR 1913-204; 1923-172; 1958-104; 1965-274

EMPR FIELDWORK 1988, pp. 49-54 EMPR OF \*1987-15, pp. 23,24

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

Sheet)
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 163)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
CANMET RPT 686, Part II, p. 38
CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/29 CODED BY: GSB REVISED BY: GRF FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW027

NATIONAL MINERAL INVENTORY:

NAME(S): HOPEFUL, SHUSWAP LAKE, DEBBIE LYNN

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L14E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 55 08 N NORTHING: 5642750 **EASTING: 357958** 

LONGITUDE: 119 01 15 W ELEVATION: 541 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located near Quartzite Point, on the east shore of Salmon Arm of Shuswap Lake, about 30 kilometres northeast of the community of

Salmon Arm (Open File 1987-15).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Silica ASSOCIATED: Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R07 Silica Massive Industrial Min.

Silica sandstone

DIMENSION: STRIKE/DIP: 035/10E Metres TREND/PLUNGE: COMMENTS: Attitude of quartzite band.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Proterozoic-Paleoz. **Undefined Group** 

LITHOLOGY: Quartzite

Biotite Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1965 Assay/analysis SAMPLE TYPE: Grab

**GRADE** COMMODITY

45,4000 Per cent Silica

COMMENTS: A mixed grab sample consisting of chips gathered from all of the

workings REFERENCE: Minister of Mines Annual Report 1965, page 275.

CAPSULE GEOLOGY

**BIBLIOGRAPHY** 

The Hopeful quartzite deposit is 243 metres above Shuswap Lake, about 1828 metres up an old logging road that starts on the lakeshore

800 metres northeast of Quartzite Point.

A medium grained, white quartzite band, 9.1 to 12.2 metres thick, is interbedded with biotite hornblende gneiss within the Hadrynian? to Paleozoic Eagle Bay assemblage. The quartzite bank well exposed for 304 metres along a strike of 035 degrees on the The quartzite band is surface of a small flat bench and in bluffs along its edge. It dips 10 degrees to the southeast. Although much of it is glassy to milky white, some is stained yellow to brown. Scattered patches of pyrite are present.

Workings on the deposit consist of one pit  $1.8\,$  by  $0.9\,$  metres, a cut on the edge of a bluff that is  $4.5\,$  by  $3\,$  by  $2.4\,$  metres, and three small blastholes. A mixed grab sample consisting of chips gathered from all of the workings analysed 97.28 per cent SiO2, 0.29 per cent Al2O3, 2.09 per cent CaO and 0.25 per cent Fe (total) (Minister of Mines Annual Report 1965, page 275).

EMPR AR \*1965-275; 1968-330 EMPR FIELDWORK 1988, pp. 49-54

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/29 REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW028

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5618459 EASTING: 330868

REPORT: RGEN0100

105

 $\begin{array}{ll} \text{NAME(S): } & \underbrace{\textbf{GALAXY}}_{\text{MARK, ED}}, \text{NOVA, FLY HILL,} \\ \end{array}$ 

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L11W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 41 36 N
LONGITUDE: 119 23 41 W
ELEVATION: 1272 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Showing on the Galaxy 9 claim, near the headwaters of the east

tributary of Gordon Creek, about 8 kilometres west of the community

of Salmon Arm (Assessment Report 2756).

COMMODITIES: Nickel Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pentlandite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Vein

Epigenetic TYPE: MO2 Tholeiitic intrusion-hosted Ni-Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Pyroxenite Sill

Pyroxenite Dike Pyroxenite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

At the Galaxy showing, pyroxenite dikes and sills containing fracture fillings and disseminations of pyrrhotite and pentlandite, intrude Cretaceous? granitic rocks near the contact with

metasediments of the Hadrynian and/or Paleozoic Silver Creek Formation.

In 1967, work performed comprised three bulldozer trenches for a total of 396 metres, stripping across a 60 by 91 metre area, an opencut 5.4 metres into bedrock, and 2 diamond-drill holes for a

total of 152 metres.

**BIBLIOGRAPHY** 

EMPR AR 1964-105; 1967-136

EMPR ASS RPT \*2756

EMPR GEM 1970-319

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 180)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/06 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW029

NATIONAL MINERAL INVENTORY:

NAME(S): CB, PRITCHARD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L12W BC MAP:

MINING DIVISION: Kamloops

TREND/PLUNGE:

LATITUDE: 50 42 52 N

NORTHING: 5621848 EASTING: 301337

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LONGITUDE: 119 48 51 W ELEVATION: 548 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main showing located north of the South Thompson River and the Trans-

Canada Highway, about 3 kilometres north of the community of

Pritchard (Assessment Report 2403).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Bornite

COMMENTS: Possible bornite.

ASSOCIATED: Quartz Carbonate Pyrite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: L03 Alkalic porphyry Cu-Au

DIMENSION: 9 x 6 Metres

COMMENTS: Main showing.

Nicola

**HOST ROCK** 

Triassic-Jurassic

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Undefined Formation

STRIKE/DIP:

Per cent

LITHOLOGY: Andesite

Andesite Lava Andesite Tuff Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1969 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Rock

**GRADE** COMMODITY Copper 0.5100

REFERENCE: Assessment Report 2403.

CAPSULE GEOLOGY

At the main CB showing in an area 9 by 6 metres, chalcopyrite, pyrite, malachite and bornite? occur sporadically in narrow quartz-carbonate veins and veinlets, up to 15 centimetres wide, which

are associated with shears intersecting a fault striking between 045 and 090 degrees. Hostrocks comprise Upper Triassic and? Lower Jurassic Nicola Group andesite lava with interbedded tuff and minor argillite. A rock sample assayed 0.51 per cent copper (Assessment

Report 2403).

The original showings on the property were hand trenched probably early in the 1900s. Kamad Silver Co. Ltd. acquired the property and completed a prospecting program accompanied by four bulldozer trenches. In 1966, Nordco Explorations Limited carried out an induced polarization survey over 6 lines. From 1969 to 1970, geological, geochemical, ground magnetometer and an airborne geophysical (magnetometer and electromagnetic) survey were performed.

In 1971, 2 holes were diamond drilled totalling 122 metres.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC OF 481; 637 (Occurrence 179)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/08 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW030

NATIONAL MINERAL INVENTORY:

NAME(S): K, PRITCHARD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L12W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

108

LATITUDE: 50 43 03 N NORTHING: 5622178 EASTING: 301625

LONGITUDE: 119 48 37 W ELEVATION: 640 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located north of the South Thompson River and the Trans-Canada Highway, about 3 kilometres north of the community of Pritchard (Assessment Report 2403).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Bornite COMMENTS: Possible bornite.

ASSOCIATED: Quartz Carbonate Pyrite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Shear **Epigenetic** TYPE: L03 Alkalic porphyry Cu-Au

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** Triassic-Jurassic Nicola

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Andesite

Andesite Lava Andesite Tuff Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

At the K showing, chalcopyrite, pyrite, malachite and bornite? occur sporadically in narrow quartz-carbonate veins and veinlets, up to 15 centimetres wide, which are associated with shears intersecting a fault striking between 045 and 090 degrees. Hostrocks comprise Upper Triassic and? Lower Jurassic Nicola Group andesite lava with interbedded tuff and minor argillite.

**BIBLIOGRAPHY** 

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EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

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CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/08 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

PAGE: 109 REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW031

NATIONAL MINERAL INVENTORY:

NAME(S): FS, CHASE SILICA

STATUS: Past Producer REGIONS: British Columbia Open Pit

MINING DIVISION: Kamloops

NTS MAP: 082L13W BC MAP:

UTM ZONE: 11 (NAD 83)

Tungsten

LATITUDE: 50 48 25 N LONGITUDE: 119 49 46 W ELEVATION: 1082 Metres NORTHING: 5632173 EASTING: 300653

TREND/PLUNGE:

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein at the northern outcrop, along Niskonlith Creek, about 10 kilometres west of the community of Chase (Open File 1987-15).

COMMODITIES: Silica Copper I ead 7inc

**MINERALS** 

SIGNIFICANT: Quartz Silica

ASSOCIATED: Pyrite Pyrrhotite Sphalerite Chalcopyrite Galena

Scheelite ALTERATION: Fuchsite

ALTERATION TYPE: Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Stockwork Shear

CLASSIFICATION: Hydrothermal TYPE: I07 Silica Epigenetic Industrial Min.

105 Polymetallic veins Ag-Pb-Zn±Au Silica veins SHAPE: Tabular

DIMENSION: 15 Metres

STRIKE/DIP: 360/80 COMMENTS: Southern exposure of quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Proterozoic-Paleoz. Mount Ida Silver Creek

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Felsic Schist

Amphibolite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1969 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silica 46,6000 Per cent

COMMENTS: Random sample from northern exposure. Also analysed 0.064 per cent

total Fe, trace Al2O3 and nil CaO. REFERENCE: Open File 1987-15, page 29.

**CAPSULE GEOLOGY** 

The FS occurrence is located on Niskonlith Creek about 10 kilometres west of Chase. The occurrence consists of two exposures  $\frac{1}{2}$ of thick, milky white quartz veins separated by about 400 metres in a north-south direction. Drilling has established continuity between the two outcrops.

Rocks underlying the area are comprised mainly of schist and amphibolite of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group). The quartz veining appears to be hosted in a fault zone near the contact between the Silver Creek Formation rocks and Cretaceous? granite.

At the southern outcrop, the quartz vein strikes northerly, dips steeply and is 3.5 to 15 metres wide. Surrounding rocks are mainly felsic schists and amphibolites. The quartz is milky white and coarse grained with occasional well-formed crystals reaching 10 to 20 centimetres in length. Minor impurities that are present throughout the width of the vein include seams of fuchsite and reddish,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

rust-stained patches. A zone of impure vein quartz, up to 7.5 metres wide, is transitional to extensive quartz stockwork in altered country rock on either side of the main vein. The pit walls contain variable amounts of quartz stockwork veining. The impure margins of the main vein and the quartz stockwork veining are mineralized with pyrite, chalcopyrite, pyrrhotite, sphalerite, galena, scheelite and possibly tungstenite. The vein is visually estimated to be composed of greater than 98 per cent quartz.

Several shipments were made from a quarry on the southern outcrop to silicon and silicon carbide plants in Oregon. In 1982, the north-south elongated quarry measured 110 by 35 metres but no production figures are available.

At the northern outcrop (granite dome outcrop), a quartz vein striking 040 degrees with a steep dip occurs within leucocratic granitic rocks. The vein is 20 metres wide. The quartz is coarse grained, massive and milky white. Minor yellow and orange rust staining occurs on fractures and rare grains of sulphides are present in the quartz. Quartz stockwork veining occurs throughout the granite. A random chip sample in 1969 assayed 99.74 per cent SiO2, 0.064 per cent total Fe, trace Al2O3 and nil CaO (Open File 1987-15, page 29).

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CJES Vol.21 (Oct.1984), pp. 1171-1193
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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/07 CODED BY: GSB REVISED BY: GRF FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LNW032

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5641212 EASTING: 356548

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

111

NAME(S): **THUNDERBOLT**, ANNEX

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 54 17 N LONGITUDE: 119 02 25 W ELEVATION: 426 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located near the east shore of Shuswap Lake (Salmon Arm), south of Quartzite Point, about 29 kilometres north-northeast of the community

of Salmon Arm (Minister of Mines Annual Report 1913).

Epigenetic

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: 101 Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

Proterozoic-Paleoz. **Undefined Group** 

> LITHOLOGY: Chlorite Schist Mica Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

**FORMATION** 

Eagle Bay

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE:

**CAPSULE GEOLOGY** 

The Thunderbolt showing is underlain by chlorite schist, mica schist and quartzite of the Hadrynian? to Paleozoic Eagle Bay Two adits have been driven and several pits (shafts) assemblage. have been sunk on narrow, pyritic quartz veins in the chlorite and mica schists. The veins assayed trace gold. mica schists. The veins assayed trace gold.

One adit is about 91 metres above the lake, the other on the

One adit is about 91 metres above the lake, the other on the lakeshore. The upper adit is 7.6 metres long, the lower one 18.2 metres long. Near the lower adit, on the north side, is an outcrop of impure iron ore in mica schist which, several years ago, a pit was sunk 3.6 metres wide by about 3.6 metres long at its mouth, tapering to 1.2 by 1.5 metres at a depth of 2.4 metres, below which sinking had been continued, but to an unknown depth due to water (Minister of Minister). Mines Annual Report 1913, page K205).

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Sheet)

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/30

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW033

NATIONAL MINERAL INVENTORY:

NAME(S): **BLACK POINT** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 45 46 N LONGITUDE: 119 02 34 W ELEVATION: 350 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: A bubbling spring in Mara Lake, located about 18.5 kilometres northeast of the community of Salmon Arm (GSC Memoir 296).

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Unknown

COMMENTS: Carbon dioxide gas.

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Hydrothermal TYPE: T02 Geoth

Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5625435 EASTING: 355935

REPORT: RGEN0100

112

Shuswap Metamorphic Complex

LITHOLOGY: Gneiss

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE:

**CAPSULE GEOLOGY** 

**GEOLOGICAL SETTING** 

A bubbling spring is located in Mara Lake, just south of Black Point, and has been active since early Indian times. The gas that  ${\sf Point}$ issues from this spring is largely carbon dioxide. Rumour states that a company intends to capture the gas, compress it, and market it

for industrial use (GSC Memoir 296, page 162).

Recent geology maps indicates the area is underlain by gneiss and schist of the Proterozoic and/or Paleozoic Shuswap assemblage.

**BIBLIOGRAPHY** 

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GSC MEM \*296, p. 162 GSC OF 481; 637 (Occurrence 174) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.19 (Feb.1982), pp. 288-307; Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: GO DATE REVISED: 1995/07/07

FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW034

NAME(S): TO

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L13E BC MAP:

LATITUDE: 50 49 27 N LONGITUDE: 119 40 23 W ELEVATION: 442 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Highway cut along the Trans-Canada Highway just east of the community

of Chase (Assessment Report 3915).

COMMODITIES: Fluorite

**MINERALS** 

SIGNIFICANT: Fluorite ASSOCIATED: Quartz MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

Epigenetic TYPE: I11 Barite-fluorite veins

Industrial Min.

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE

Ordovician Proterozoic-Paleoz.

Mount Ida

**FORMATION** Mount Ida Undefined Formation Silver Creek

LITHOLOGY: Granitic Gneiss Granite

Dioritic Gneiss **Amphibolite** Mica Schist

HOSTROCK COMMENTS: Little Shuswap orthogneiss of the Mount Ida assemblage.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Thompson Plateau

PAGE:

NATIONAL MINERAL INVENTORY: 082L13 Fsp1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5633677

EASTING: 311738

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

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GRADE:

**CAPSULE GEOLOGY** 

The To showing is situated near the contact between the Ordovician Little Shuswap orthogneiss of the Mount Ida Group and the Hadrynian and/or Paleozoic Silver Creek Formation. In the showing area, the Little Shuswap orthogneiss comprises granitic to dioritic gneisses and the Silver Creek Formation comprises mica schists and amphibolites.

Fluorite is observed in amphibolite and granite gneiss (described as andesite and syenite respectively, in Assessment Report 3915). The fluorite is associated with fractures, either as a constituent of quartz veins up to 20 centimetres wide, or as a thin coating on fracture surfaces. Where the fluorite occurs as coatings on fracture surfaces, it averages about 2 millimetres wide although in some instances the coatings attain a width of about 10 millimetres.

The fluorite mineralization is associated with a fracture system that strikes to the northeast and dips steeply either to the northwest of southeast. The fluorite mineralization occurs over a distance of 485 metres.

**BIBLIOGRAPHY** 

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/06 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW035

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5604417 EASTING: 316334

REPORT: RGEN0100

115

NAME(S): **BUDGET**, MM, SWAN, BLAIR, CHAR

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L12E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 33 46 N LONGITUDE: 119 35 36 W ELEVATION: 1067 Metres LOCATION ACCUMENCY: Within 500M

COMMENTS: Showing located along a roadcut, south of Blair Creek and about 7

kilometres north of Falkland (Assessment Report 4045).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Malachite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Volcanogenic

TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Andesite

Andesite Flow Andesite Tuff Araillite Siltstone Phyllite Diorite

Quartz Diorite

Meta Sediment/Sedimentary

Meta Volcanic

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Thompson Plateau

TECTONIC BELT: Intermontane TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1988 Assay/analysis

SAMPLE TYPE: Rock

**GRADE COMMODITY** Copper Per cent

REFERENCE: Assessment Report 18716, page 17.

CAPSULE GEOLOGY

The Budget occurrence is located near the eastern margin of the Quesnel Terrane and the eastern boundary of the Intermontane Belt. The property is close to the contact between mafic volcanic rocks and fine clastic sedimentary rocks of the Upper Triassic and? Lower Jurassic Nicola Group. The strata have been folded and faulted along northwest trending axes and regionally metamorphosed to lower greenschist facies.

The showing is underlain by dark green and black, fine grained clastic sedimentary rocks (siltstone, argillite and/or phyllite) and green mafic flows and tuffs (andesite). The sedimentary rocks commonly contain 1 to 2 per cent pyrite or pyrrhotite and are locally graphitic and calcareous. The strata strikes northwest with steep dips, mainly to the southeast. Several small dike-like and sill-like bodies of quartz diorite and diorite are associated with the mafic valcanic rocks. Two large bodies of quartz diorite several hundred volcanic rocks. Two large bodies of quartz diorite, several hundred

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

metres in diameter, have been mapped east and south and are believed to be Cretaceous?

Minor disseminated and fracture-controlled chalcopyrite and some malachite occur in metasedimentary and metavolcanic rocks along roadcuts. A rock sample of silicified brown schist containing pyrite and malachite assayed 0.17 per cent copper (Assessment Report 18716, page 17).

The first record of work was during 1969 and 1970 when a geological and magnetometer survey was completed, and 219 soil samples collected by Gunnex Ltd. on the Swan claims. In 1971, additional claims were staked and an additional 269 soil samples were collected. In 1972, Canadian Johns Manville Co. acquired the property and in 1973 they completed a magnetic, geological and 800-sample soil geochemistry survey. In 1973, six lines of induced polarization surveying were completed in addition to detailed geological mapping and 1297 soil samples. In 1974, 15 vertical percussion drill holes (614 metres) were completed. The focus of the exploration work was for porphyry-style mineralization.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/05/09 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW036

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5651943 EASTING: 320734

REPORT: RGEN0100

117

 $\begin{array}{c} \text{NAME(S): } \underline{\textbf{NIK}}, \text{ COMSTOCK, CORN,} \\ \overline{\text{EAST, AD}} \end{array}$ 

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L13E UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 59 28 N LONGITUDE: 119 33 16 W

ELEVATION: 1463 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone near the headwaters of the main, east tributary of Nikwikwaia Creek, about 21 kilometres north-northeast of the

community of Chase (Assessment Report 14385).

COMMODITIES: Copper Zinc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite Sphalerite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Stratiform

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian Eagle Bay

LITHOLOGY: Dacite

Dacite Tuff Dacite Flow Dacite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Nik showing is underlain by metamorphosed mafic to felsic volcanic rocks of the Devonian Skwaam Bay unit of the Eagle Bay The units have a well developed foliation which dips assemblage. moderately (20-45 degrees) to the west and northwest. The rocks comprise dacite tuffs and flows, which are divided by dacite schists and occasionally bands of basalt.

Sulphide zones occur within the dacite and dacite schist and near their contact. Most of the mineralization occurs as stratiform disseminations of pyrite and pyrrhotite with minor chalcopyrite and sphalerite. These zones appear to range up to 1.5 to 2.0 metres in thickness and 10 to 30 metres in length.

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GSC OF 481; 637 (Occurrence 130)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/19 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW037

NATIONAL MINERAL INVENTORY:

NAME(S): SABRE

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082L14E BC MAP: LATITUDE: 50 52 12 N

NORTHING: 5637719 EASTING: 343718

MINING DIVISION: Kamloops

PAGE:

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118

LONGITUDE: 119 13 16 W ELEVATION: 777 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Claim centre, south of White Lake, about 20 kilometres north of the

community of Salmon Arm.

COMMODITIES: Copper

Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite

Molybdenite

ASSOCIATED: Pyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Volcanogenic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian Undefined Group Eagle Bay

LITHOLOGY: Chlorite Phyllite

Quartz Chlorite Phyllite

Sericite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

At the Sabre showing, pyrite, chalcopyrite and molybdenite occur as disseminations on foliation planes and in fractures in chlorite phyllite, quartz chlorite phyllite and sericite phyllite of the

Devonian Skwaam Bay unit of the Eagle Bay assemblage.

Trenching (61 metres), stripping (743 square metres) and 2 percussion-drill holes (152 metres total) were completed in 1972.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7755 EMPR EXPL 1979-107 EMPR GEM \*1972-83

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 159)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/27 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW038

NATIONAL MINERAL INVENTORY:

NAME(S): **AB 10** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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NORTHING: 5597712 EASTING: 323435

LATITUDE: 50 30 17 N LONGITUDE: 119 29 24 W ELEVATION: 1166 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone outcrop in a creek bed located 3 kilometres south of Bolean

Lake, west of Silvernail Lake, about 6 kilometres east of the

community of Falkland (Assessment Report 4830).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal TYPE: G04 Bessh **Epigenetic** Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation Nicola

LITHOLOGY: Limestone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The AB 10 showing consists of disseminated chalcopyrite and pyrite in a small outcrop of impure, brown limestone located in a creek bed. The limestone is within an argillite sequence of the

Upper Triassic Nicola Group.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4830 EMPR GEM 1973-100,101

EMPR OF 1999-2

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 228) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/10 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW039

NATIONAL MINERAL INVENTORY:

NAME(S): ZETT, EAGLE, JAY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E BC MAP:

MINING DIVISION: Vernon Kamloops UTM ZONE: 11 (NAD 83) NORTHING: 5614270 EASTING: 357336

Shuswap Metamorphic Complex

PAGE:

REPORT: RGEN0100

120

LATITUDE: 50 39 46 N LONGITUDE: 119 01 07 W ELEVATION: 1158 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Mineralized outcrop located 500 metres south of Blurton Creek, about

15 kilometres north-northeast of the community of Enderby (Assessment

Report 2510).

COMMODITIES: Nickel

**MINERALS** 

SIGNIFICANT: Pentlandite Pyrrhotite COMMENTS: Probably pentlandite.
ALTERATION: Chlorite Talc

ALTERATION TYPE: Chloritic MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal TYPE: M02 Tholei **Epigenetic** 

Tholeiitic intrusion-hosted Ni-Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

FORMATION STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic Mount Ida Tsalkom

Proterozoic-Paleoz.

LITHOLOGY: Peridotite

Pyroxenite Ultramafic **Granite Gneiss** 

Feldspar Hornblende Biotite Gneiss

Marble

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1969 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

Nickel Per cent

COMMENTS: Average assay from seven representative grab samples.

REFERENCE: Assessment Report 2510, page 6.

CAPSULE GEOLOGY

The Zett property is located near the fault contact between the Proterozoic and/or Paleozoic Shuswap assemblage and the lower Paleozoic Tsalkom Formation (Mount Ida Group). Shuswap rocks comprise granite gneiss, feldspar (hornblende, biotite) gneiss and marble while ultramafic bodies of the Tsalkom Formation consist of peridotites to pyroxenites.

Chlorite (and locally talc) is the most common alteration

product and usually occurs close to large shear zones.
 Nickel is present in sulphide form (probably pentlandite) and is associated with pyrrhotite as very fine disseminations in the ultramafic rocks. In an irregularly shaped plug outcropping over an area of 304 by 152 metres, seven representative grab samples yielded an average 0.28 per cent nickel (Assessment Report 2510, page 6). Two small bands of ultramafic rock cross an access road, about 1500 metres south of the main plug. A sample from here assayed 0.18 per cent nickel over 3 metres (Assessment Report 2510, page 6).

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2510 EMPR FIELDWORK 1988, pp. 49-54 EMPR OF 1990-30 EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap EMPR Pr (General File - Dawson, G.M. (1090). Geology map of Shaow Sheet) GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 (Occurrence 219) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/12 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW040

NATIONAL MINERAL INVENTORY:

NAME(S): BURN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

122

BC MAP: LATITUDE:

NORTHING: 5620672 **EASTING: 347327** 

50 43 04 N LONGITUDE: 119 09 46 W ELEVATION: 945 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located near the headwaters of East Canoe Creek, about 8 kilometres east of the community of Salmon Arm (Assessment Report 3111).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz MINERALIZATION AGE:

Pyrite

**DEPOSIT** 

CHARACTER: Vein CHARACTERS CONTROL PORPHYRY
CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE

Proterozoic-Paleoz. Cretaceous

Mount Ida

**FORMATION** Silver Creek

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Granite

Graphitic Limestone

Calcareous Graphitic Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

#### **CAPSULE GEOLOGY**

The Burns showing is predominantly underlain by a series of uniform, contorted, dark grey to black, fine grained graphitic limestones, calcareous graphitic phyllites and thin marble bands of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida The rocks are tightly folded and dips vary from near Group). horizontal to vertical. Numerous concordant bodies of fine grained granitic rock intrude this sequence. These granitic rocks may be related to a nearby, larger Cretaceous? intrusion to the northeast.

Irregular, discontinuous quartz veins, veinlets, lenses and blebs permeate most of the exposed granite. The veins generally strike southerly in the south part of the property, and more westerly in the north part of the property.

Numerous occurrences of molybdenite have been noted throughout the property. In most cases, the molybdenite occurs as fine to medium grained, discrete flakes along the margins of the quartz veins. Disseminated pyrite is common in the granite near mineralized quartz veins.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*3111 EMPR GEM 1971-433

EMPR OF 1990-30

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

GSC MEM 296 GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: GO DATE REVISED: 1995/05/31

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW041

NATIONAL MINERAL INVENTORY:

NAME(S): HY 7

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

123

LATITUDE: 50 48 17 N

NORTHING: 5632307 EASTING: 290937

IGNEOUS/METAMORPHIC/OTHER

LONGITUDE: 119 58 02 W ELEVATION: 1256 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond-drill hole collar on the Hy 7 claim, near the north end of Hyas Lake, about 20 kilometres west of the community of Chase

(Assessment Report 4944).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Pyrite MINERALIZATION AGE:

Pyrrhotite

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Shear Epigenetic

TYPE: G04 Besshi massive sulphide Cu-Zn

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic

FORMATION Harper Ranch Undefined Formation Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Limestone Breccia

Limestone

Argillaceous Limestone Argillaceous Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

CAPSULE GEOLOGY

A diamond-drill hole on the Hy 7 claim intersected a sequence of interbedded argillite, argillaceous shale, limestone, argillaceous limestone and limestone breccia, of the Mississippian to Triassic Harper Ranch and? Nicola groups.

Pyrite, pyrrhotite and specks of chalcopyrite were noted in the limestone breccia. Some chalcopyrite also occurs as smears in

shears.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4944 EMPR EXPL 1975-E54,E55

EMPR GEM 1973-103; 1974-94,95

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet; Bacon, W.R. (1972): Report on Several B.C. Properties)

GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 169)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/09 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW042

NATIONAL MINERAL INVENTORY:

NAME(S): **SWORD** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082L14E BC MAP: LATITUDE: 50 51 42 N

NORTHING: 5636681 EASTING: 347443

MINING DIVISION: Kamloops

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REPORT: RGEN0100

124

LONGITUDE: 119 10 04 W ELEVATION: 1501 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of claims, about 20 kilometres north-northeast of the community of Salmon Arm.

COMMODITIES: Copper

MINERALS SIGNIFICANT: Chalcopyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic TYPE: G06 Noran

Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Chlorite Phyllite

Sericite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

At the Sword showing, trace amounts of chalcopyrite occur in chlorite and sericite phyllite of the Hadrynian? to Paleozoic Eagle

Bay assemblage.

**BIBLIOGRAPHY** 

EMPR GEM \*1972-83

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 160) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1995/06/27 FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW043

NATIONAL MINERAL INVENTORY:

NAME(S): **SCIMITAR**, NN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082L14E BC MAP: LATITUDE: 50 53 28 N

NORTHING: 5639924 EASTING: 348575

PAGE:

REPORT: RGEN0100

125

LONGITUDE: 119 09 11 W ELEVATION: 1160 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole NN-1 collar, 5 kilometres east of White Lake, about 24

kilometres north of the community of Salmon Arm (Assessment Report 7055).

COMMODITIES: Copper

MINERALS

SIGNIFICANT: Chalcopyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Volcanogenic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Proterozoic-Paleoz. **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Chlorite Phyllite

Sericite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Diamond drilling at the Scimitar showing has intersected trace amounts of chalcopyrite in chlorite and sericite phyllite of the

Hadrynian? to Paleozoic Eagle Bay assemblage.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6591, \*7055 EMPR EXPL 1977-E86; 1978-E99 EMPR FIELDWORK 1988, pp. 49-54

EMPR GEM 1972-83

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

GSC MEM 296 GSC OF 481; 637 (Occurrence 161)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/26 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW044

NATIONAL MINERAL INVENTORY:

NAME(S): SILVER QUEEN, SILVER KING, CEDAR

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

126

LATITUDE: 50 58 40 N LONGITUDE: 119 27 25 W ELEVATION: 426 Metres

NORTHING: 5650227 EASTING: 327526

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized veins located along Scotch Creek, about 24 kilometres northeast of the community of Chase (Assessment Report 12483).

COMMODITIES: Lead 7inc Silver

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Carbonate MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Greenschist

Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Silver Queen showing comprises a quartz-carbonate vein system about 30 metres wide striking northwest and dipping gently southwest, hosted in greenschist and marble. Mineralization in the veins consists of argentiferous galena and sphalerite. The veins extend north across Scotch Creek at low water.

The showing area is underlain by the Lower Cambrian Johnson Lake unit and the Devonian and/or older? Woolford Creek unit, both of the

Eagle Bay assemblage.

**BIBLIOGRAPHY** 

EMPR ASS RPT 5452, 10733, \*12483 EMPR EXPL 1975-E55; \*1977-E85

EMPR PF (\*Statement of Exploration and Development Work, 1977; General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)

GSC MAP 1059A

GSC MEM 296

GSC OF 481; 637 (Occurrence 134) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/21 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW045

NATIONAL MINERAL INVENTORY:

NAME(S): **GRAVEL** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 54 30 N

NORTHING: 5642685 EASTING: 321996

LONGITUDE: 119 31 55 W ELEVATION: 373 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located 15 kilometres northeast of the community of Chase, on the north side of Shuswap Lake, straddling Corning Creek, 500 metres from the lake shore (Exploration in British Columbia 1976).

COMMODITIES: Lead

7inc

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

ASSOCIATED: Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Sedimentary

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

Proterozoic-Paleoz.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Silver Creek

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Pelitic Schist

Quartzite

Mount Ida

Micaceous Quartzite Calcareous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Gravel showing is underlain by pelitic schist, semi-pelitic schist, quartzite, micaceous quartzite and calcareous quartzite of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Exposed and bedded? sulphides (galena, sphalerite and assemblage). pyrite) trend north-northwest.

The showing is near salmon spawning grounds and in an area of subdivision development (circa 1976).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*5920 EMPR EXPL 1976-E56

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 155) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/19

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW046

NATIONAL MINERAL INVENTORY:

NAME(S): SCOTCH

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L14W 082L13E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

128

LATITUDE: 50 57 18 N LONGITUDE: 119 29 34 W ELEVATION: 1249 Metres

NORTHING: 5647779 EASTING: 324925

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole collars between Corning and Scotch creeks, north of Shuswap Lake, about 20 kilometres northeast of the community of Chase

(Assessment Report 17643). The main mineralization is 2000 metres to

the east.

COMMODITIES: Copper

Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrrhotite

Sphalerite Galena Pyrite

7inc

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Stratiform Stratabound Massive

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

TRATIGRAPHIC AGE Paleozoic

GROUP Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sericite Chlorite Phyllite

Graphitic Argillite Argillaceous Marble Calcareous Argillite Chlorite Sericite Schist Quartz Sericite Schist

Calcareous Argillaceous Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Scotch occurrence area is underlain by a tightly folded and overturned? sequence of metavolcanic and metasedimentary rocks of the Devonian Skwaam Bay unit and Devonian and/or older? Woolford Creek unit, both of the Eagle Bay assemblage. The rocks exhibit a well developed foliation generally striking west and dipping between 25 and 30 degrees north.

Diamond drilling has intersected a stratigraphic sequence comprised of sericite chlorite phyllite, graphitic argillite, interbanded argillaceous marble and calcareous argillite, chlorite sericite schist, quartz sericite schist and calcareous argillaceous siltstone.

Stratabound and stratiform dispersed and massive sulphide mineralization has been discovered in several places on and near the property, as well as in drillholes. The predominant sulphide mineral is pyrrhotite, with lesser pyrite and variable amounts of sphalerite, galena and chalcopyrite.

A drillhole located 2000 metres west of the main mineralized area intersected minor interbands and stringers of pyrrhotite, pyrite, chalcopyrite, sphalerite and galena.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, pp. 297-306 EMPR ASS RPT 3511, 6237, 6419, 7691, 12216, 14998, 16176, \*17643 EMPR EXPL 1976-E57; 1977-E83,E84; 1979-106,107

EMPR OF 1999-2

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 296 GSC OF 481; 637 (Occurrence 132) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193 GCNL #165(Aug.27), 1976

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1995/06/20

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW047

NATIONAL MINERAL INVENTORY:

NAME(S): GOAT A

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

130

NTS MAP: 082L11E BC MAP: LATITUDE: 50 42 30 N

NORTHING: 5619564 EASTING: 349297

LONGITUDE: 119 08 04 W ELEVATION: 983 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate centre of the Goat A claim, located at the headwaters of Violet Creek about 10 kilometres east of the community of Salmon Arm

(Exploration in British Columbia 1978).

COMMODITIES: Silica Lead Molybdenum

**MINERALS** 

SIGNIFICANT: Silica Molybdenite Galena

COMMENTS: The sulphide mineralization occurs in the 240-metre wide silica

deposit.

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R07 DIMENSION: 240 Polymetallic veins Ag-Pb-Zn±Au TREND/PLUNGE: Silica sandstone 105 STRIKE/DIP: Metres

COMMENTS: Silica deposit.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Quartzite

Micaceous Quartzite Calcareous Quartzite Pelitic Schist Semi Pelitic Schist Limestone Marble Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

Prospecting, soil testing, drilling, blasting and trenching have been performed on the Goat A claims in the exploration for high-grade Low grade molybdenite and galena was discovered while silica. prospecting and trenching. The galena occurs within the 240-metre

wide silica deposit.

Recent geology maps indicates the area is underlain by the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group) comprised of quartzite, micaceous quartzite and calcareous quartzite, pelitic and semi-pelitic schist, lesser limestone, marble and

amphibolite.

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Sheet) GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

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DATE CODED: 1985/07/24 DATE REVISED: 1995/05/31 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW048

NATIONAL MINERAL INVENTORY: 082L13 Fsp2

NAME(S): LITTLE SHUSWAP LAKE, LITTLE SHUSWAP

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 51 03 N NORTHING: 5636618 EASTING: 312510

LONGITUDE: 119 39 49 W ELEVATION: 356 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the second rocky point from the east end of Little Shuswap Lake, on the north side, about 4 kilometres from the community of

Chase (GSC Annual Report 1877-78).

COMMODITIES: Fluorite

**MINERALS** 

SIGNIFICANT: Fluorite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I11 Barite Epigenetic Industrial Min.

Barite-fluorite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE Ordovician **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Mount Ida Undefined Formation

LITHOLOGY: Granitic Gneiss

HOSTROCK COMMENTS: Little Shuswap orthogneiss of the Mount Ida assemblage.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE:

**CAPSULE GEOLOGY** 

At the Little Shuswap Lake showing, quartz veinlets contain crystals of pale purple fluorite, hosted in granitic gneisses of the Ordovician Little Shuswap orthogneiss of the Mount Ida Group. This showing is the first reported fluorspar locality in the

province.

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/07 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW049

NATIONAL MINERAL INVENTORY: 082L14 Fsp1

NAME(S): TAPPEN CREEK

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L14W BC MAP: LATITUDE: 50 46 48 N

UTM ZONE: 11 (NAD 83) NORTHING: 5628101 EASTING: 330964

PAGE:

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LONGITUDE: 119 23 52 W ELEVATION: 701 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located near the mouth of a small creek that flows north into Tappen

Creek, about 21 kilometres east of the community of Chase.

COMMODITIES: Fluorite

MINERALS SIGNIFICANT: Fluorite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I11 Barite-fluorite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal **FORMATION** 

LITHOLOGY: Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

At the Tappen Creek showing, irregular fluorite veins up to 10

centimetres wide occur in Cretaceous? granite.

**BIBLIOGRAPHY** 

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Sheet) GSC MAP 1059A GSC MEM 296

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CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/07 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW050

NATIONAL MINERAL INVENTORY:

NAME(S): ENDERBY, ENDERBY BRICK AND TILE

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L11E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

133

LATITUDE: 50 33 46 N LONGITUDE: 119 08 27 W ELEVATION: 354 Metres NORTHING: 5603394 EASTING: 348378

LOCATION ACCURACY: Within 500M

COMMENTS: Old workings along the bank of the Shuswap River, near the Enderby railway station (GSC Memoir 24-E, page 118).

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay ASSOCIATED: Mica

COMMENTS: Also iron oxide.
MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Residual

Stratabound Sedimentary

Industrial Min.

F07

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary

TYPE: B06 Fireclay

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Clay

Calcareous Clay Silty Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

Sedimentary kaolin

#### **CAPSULE GEOLOGY**

The Enderby Brick and Tile Company's works are located on the bank of the Shuswap River, near the railway station.

A stratified, yellow, calcareous clay strongly impregnated with iron oxide, is obtained from the river terrace. The clay bed is discontinuous, and is laterally replaced by sand. It has been mined to about 1.2 metres in depth for brick making; there is very little

overburden. The clay is slightly silty, contains an abundance of mica scales, and is only moderately plastic.

The clay worked up with 28 per cent of water to a mass whose air shrinkage was 6.3 per cent and average tensile strength 290 pounds per square inch (1999 kPa).

In burning, the wet moulded bricklets behaved as follows:

CONE	FIRE SHRINKAGE(%)	ABSORPTION(%)	COLOUR
010	0	20.76	Red
03	3	14.77	Red
1	7.3	0.23	Dark Red
5	Fuged		

The clay is steel hard at cone 03 and makes a good common brick. It burns to a vitrified body at cone 1, but the fire shrinkage is  $\frac{1}{2}$ rather high at this temperature. It is more refractory that most surface clays tested, and the bricks could be burned hard enough for underground work where a non-absorbent brick was required. The clay, as dug, is too silty to use in a stiff-mud brick machine, but the lower portion of the bank, which is more plastic, would probably serve for this process.

A soft-mud brick machine is used, and a small quantity of facing bricks are re-pressed by a hand machine. The burning is done in scove kilns, with dry wood for fuel. The bricks have a good hard red body when burned, but the colour of the faces is somewhat obscured by the impure sand used in moulding. "Some 331 M bricks were kilned in 1920" (GSC Memoir 296, page 158).

The product of this yard was shipped south in the Okanagan Valley as far as Kelowna, and east along the main line of the

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

Canadian Pacific Railway as far as Revelstoke.

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Falconbridge File

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/10 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Copper

MINFILE NUMBER: 082LNW051

NATIONAL MINERAL INVENTORY:

NAME(S): **SERPENT**, EVE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13W BC MAP:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

135

LATITUDE: 50 59 27 N LONGITUDE: 119 46 37 W ELEVATION: 914 Metres

NORTHING: 5652476 EASTING: 305120

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization in the bed of an unnamed tributary to Bush Creek,

about 20 kilometres north of the community of Chase (Assessment

Report 8799).

COMMODITIES: Lead

Zinc

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Chalcopyrite

ASSOCIATED: Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic

Massive

TYPE: G06

Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Paleozoic

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Siliceous Phyllite

Graphitic Schist Calcareous Shale Limestone Meta Arkose

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Assay/analysis

Grab

YFAR: 1980

COMMODITY Copper

**GRADE** 0.0400

Per cent

I ead

1.9000 Per cent

Zinc

1.6500 Per cent

REFERENCE: Assessment Report 8799, page 4.

**CAPSULE GEOLOGY** 

The Serpent showing is underlain by siliceous phyllite of the Devonian and/or older? Dixon Ridge unit (Eagle Bay assemblage), graphitic schist, calcareous shale and limestone of the lower Paleozoic Sicamous Formation (Mount Ida Group), and meta-arkose of the lower Paleozoic Forest Lake unit (Eagle Bay assemblage). These rocks exhibit several episodes of deformation.

The mineralization occurs in the bed of an unnamed tributary to Bush Creek, and consists of very thin bands and lenses (maximum 4 centimetres) of fine-grained pyrite, sphalerite, galena and very minor chalcopyrite in a thinly laminated siliceous phyllite. The phyllite is commonly "cherty looking". Disseminated pyrite and galena was noted over a section of approximately 20 metres. One grab sample of a sulphide lens assayed 1.9 per cent lead, 1.65 per cent zinc and 0.04 per cent copper (Assessment Report 8799, page 4).

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EMPR FIELDWORK 2000, pp. 67-74

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/16 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW052

NATIONAL MINERAL INVENTORY:

NAME(S): **STEEP 3**, EVE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13E

MINING DIVISION: Kamloops

BC MAP: LATITUDE: 50 59 39 N

NORTHING: 5652725 EASTING: 308408

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

137

LONGITUDE: 119 43 49 W ELEVATION: 524 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trench, near the west shore of Adams Lake, north of Bush Creek, about 19.5 kilometres north of the community of Chase (Assessment Report

19514).

COMMODITIES: Lead Gold Copper

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite COMMENTS: Possible chalcopyrite. SSOCIATED: Quartz Pyrite ASSOCIATED: Quartz ALTERATION TYPE: Skarn

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated Vein

CLASSIFICATION: Skarn TYPE: K02

Pb-Zn skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic Mount Ida Sicamous

LITHOLOGY: Phyllitic Argillaceous Limestone Phyllitic Calc-silicate Skarn

Garnet Skarn

Calc-silicate Rock Quartz Sericite Phyllite Quartz Feldspar Porphyry Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Steep 3 showing is underlain by lower Paleozoic Sicamous The Steep 3 showing is underlain by lower raised to the formation (Mount Ida Group) phyllitic, argillaceous limestone, phyllitic calcsilicate skarn, garnet skarn, banded to massive calcsilicate rocks and quartz sericite phyllite. These have been intruded by late quartz feldspar porphyry dikes. The skarns are an intruded by late quartz feldspar porphyry dikes. intruded by late quartz feldspar porphyry dikes. The skarns are an extension of skarns on the Steep occurrence (082M 118) to the north.

The strike of bedding varies from 270 degrees to 360 degrees,

suggesting a broad fold structure. Dips average about 50 degrees north to east.

A trench exposes galena mineralization in massive calculicate skarn and quartz veining. Pyrite and chalcopyrite? were also observed. A sample from an adjacent quartz porphyry dike analysed 445 parts per billion gold (Assessment Report 19514, page 7).

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EMPR FIELDWORK 2000, pp. 67-74

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GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1995/06/16 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW053

NATIONAL MINERAL INVENTORY:

NAME(S): NIK (EAST)

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

138

LATITUDE: 50 58 58 N NORTHING: 5651126 EASTING: 317563

LONGITUDE: 119 35 57 W ELEVATION: 716 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on the east bank of Nikwikwaia Creek, about 19 kilometres north of the community of Chase (Assessment Report 8800).

I ead

**Podiform** 

COMMODITIES: Copper

7inc

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Sílica

Sphalerite

Pyrite

Galena

Chalcopyrite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic

GROUP Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chlorite Schist

Quartz Sericite Schist Sericite Schist Greenstone Felsite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay
METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1980

SAMPLE TYPE: Grab

**GRADE** 

**COMMODITY** Copper

0.2700 Per cent

Lead

0.9700 Per cent 2.5500 Per cent

Zinc

REFERENCE: Assessment Report 8800, page 6.

CAPSULE GEOLOGY

The Nik (East) showing is located on the east bank of Nikwikwaia Creek, and is underlain by a sequence of pyritic chlorite schist, quartz sericite schist and sericite schist of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage. Massive greenstone is also found within this sequence. Felsite dikes are common.

Massive pyrrhotite with associated sphalerite and galena and minor chalcopyrite occur as lenses 5-10 centimetres wide and 5-10 centimetres long, hosted in chlorite schist. The lenses have significant amounts of silica. Selected grab samples of this mineralization analysed a maximum of 0.27 per cent copper, 0.97 per cent lead and 2.55 per cent zinc (Assessment Report 8800, page 6).

Malachite staining occurs along joint planes and fractures at several locations on the west bank of Nikwikwaia Creek.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/14 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW054

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

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 $\begin{array}{ll} \mathsf{NAME}(\mathsf{S}) \colon & \underbrace{\mathbf{AD}}_{\mathsf{EAST}}, \mathsf{CORNING} \; \mathsf{CREEK}, \\ & \underbrace{\mathsf{EAST}} \end{array}$ 

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L13E UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5650077 EASTING: 321918

LATITUDE: 50 58 29 N LONGITUDE: 119 32 12 W ELEVATION: 1295 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone in the bed of Corning Creek, near its headwaters,

about 20 kilometres north-northeast of the community of Chase

(Assessment Report 14385).

COMMODITIES: Copper Zinc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite Sphalerite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Stratiform

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian Eagle Bay

LITHOLOGY: Dacite

Dacite Tuff Dacite Flow Dacite Schist Basalt Mafic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The Ad showing is underlain by metamorphosed mafic to felsic volcanic rocks of the Devonian Skwaam Bay unit of the Eagle Bay assemblage. The units have a well developed foliation which dips moderately (20-45 degrees) to the west and northwest. The rocks comprise dacite tuffs and flows, which are divided by dacite schists and occasionally bands of basalt. Local small-scale mafic dikes occur.

Sulphide zones occur within the dacite and dacite schist, and are in close proximity to their contact. Most of the mineralization occurs as stratiform disseminations of pyrite and pyrrhotite with minor chalcopyrite and sphalerite. These zones appear to range up to minor chalcopyrite and sphalerite. These zones appear to ran 1.5 to 2.0 metres in thickness and 10 to 30 metres in length.

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GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1995/06/19 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW055

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5651420 EASTING: 348676

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

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NAME(S): LISLE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 59 40 N LONGITUDE: 119 09 23 W ELEVATION: 1310 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing located near the crossing of the Ross Creek forestry road with a tributary of Hudson Creek, about 42 kilometres northeast of

the community of Chase (Assessment Report 22078).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

**FORMATION Undefined Group** Eagle Bay

LITHOLOGY: Limestone

Phyllite Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Lisle showing is underlain by limestone, phyllite and quartzite of the Hadrynian? to Paleozoic Eagle Bay assemblage. concordant, northwest dipping quartz vein hosted in limestone is

mineralized with argentiferous galena.

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EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/23 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW056

NATIONAL MINERAL INVENTORY:

NAME(S): HLINA CREEK

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

142

NTS MAP: 082L14W BC MAP:

NORTHING: 5649575 EASTING: 330432

LATITUDE: 50 58 22 N LONGITUDE: 119 24 55 W ELEVATION: 544 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Hlina Creek flows southeast into Shuswap Lake, on its north shore,

at the community of Celista.

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**CAPSULE GEOLOGY** 

Minor amounts of placer gold were reported from Hlina Creek. No

other information is available.

**BIBLIOGRAPHY** 

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 (Occurrence 138)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/22 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW057

NATIONAL MINERAL INVENTORY:

NAME(S): ALINE

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

143

NTS MAP: 082L14E BC MAP:

NORTHING: 5649633 EASTING: 354966

LATITUDE: 50 58 48 N LONGITUDE: 119 03 58 W ELEVATION: 396 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing located near the south shore of Shuswap Lake, northeast of Wild Rose Bay, about 35 kilometres north-northeast of the community

of Salmon Arm (GSC Open File 637).

COMMODITIES: Lead

7inc

**MINERALS** 

SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: \* Ur Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

Recent geology maps indicates the Aline showing is underlain by limestone of the Hadrynian? to Paleozoic Eagle Bay assemblage. GSC Open File 637 indicates a lead-zinc showing; no other information is

available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 54-58
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; \*637 (Occurrence 140) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/26 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW058

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

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NAME(S): MCGILLIVRAY CREEK

STATUS: Past Producer REGIONS: British Columbia Open Pit MINING DIVISION: Kamloops

NTS MAP: 082L13W BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5639011 EASTING: 292675

LATITUDE: 50 51 56 N LONGITUDE: 119 56 47 W ELEVATION: 945 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Located 19 kilometres west-northwest of the community of Chase.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Overlap Assemblage Quesnel

**CAPSULE GEOLOGY** 

Bulletin 28 reports gold production from McGillivray Creek during the period 1936 to 1945. No other information is available.

**BIBLIOGRAPHY** 

EMPR BULL \*28, p. 39
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637 (Occurrence 154)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/12 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW059

NATIONAL MINERAL INVENTORY:

NAME(S): SABRE NORTH, SABRE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 52 30 N

NORTHING: 5638292 EASTING: 343149

LONGITUDE: 119 13 46 W ELEVATION: 731 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located about 21 kilometres north of the community of Salmon Arm.

COMMODITIES: Copper Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite

Molybdenite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian Eagle Bay

LITHOLOGY: Chlorite Phyllite

Quartz Chlorite Phyllite Sericite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

At the Sabre North showing, pyrite, chalcopyrite and molybdenite occur as disseminations on foliation planes and in fractures in chlorite phyllite, quartz chlorite phyllite and sericite phyllite of the Devonian Skwaam Bay unit of the Eagle Bay assemblage.

Trenching (61 metres), stripping (743 square metres) and 2 percussion-drill holes (152 metres total) were completed in 1972.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7755 EMPR EXPL 1979-107 EMPR GEM \*1972-83

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 158) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1995/06/27 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW060

NATIONAL MINERAL INVENTORY:

NAME(S): **SHORELINE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L14E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 52 06 N LONGITUDE: 119 05 04 W ELEVATION: 396 Metres

NORTHING: 5637253 EASTING: 353328

LOCATION ACCURACY: Within 500M

COMMENTS: Showing located on the west shore of Shuswap Lake (Salmon Arm), about

24 kilometres north-northeast of the community of Salmon Arm (GSC

Open File 637).

COMMODITIES: Copper

Lead

**MINERALS** 

SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: \* Ui Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. **GROUP** 

**FORMATION** Undefined Group Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartzite

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

GRADE: **RELATIONSHIP:** 

CAPSULE GEOLOGY

The Shoreline copper-lead showing is located on the west shore of Shuswap Lake (Salmon Arm). This area is underlain by quartzite, phyllite and schist of the Hadrynian? to Paleozoic Eagle Bay

assemblage. No other information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; \*637 (Occurrence 162) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/26

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LNW060

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW061

NATIONAL MINERAL INVENTORY:

NAME(S): **ROADSIDE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082L14E BC MAP: LATITUDE: 50 47 24 N

NORTHING: 5628607 EASTING: 350851

PAGE:

REPORT: RGEN0100

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LONGITUDE: 119 06 58 W ELEVATION: 503 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located south of the Trans-Canada Highway and Shuswap Lake, in the Larch Hills, about 15 kilometres northeast of the community of Salmon

7inc

Arm (GSC Open File 637).

COMMODITIES: Copper

Lead

**MINERALS** 

SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Sedimentary TYPE: E14 Sedi

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**GROUP** 

STRATIGRAPHIC AGE Proterozoic-Paleoz. Mount Ida

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Sicamous

LITHOLOGY: Pelitic Schist

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Roadside copper-zinc-lead showing is located from GSC Open File 637 and underlain by pelitic schist and quartzite of the Hadrynian and/or Paleozoic Sicamous Formation (Mount Ida Group). No

other information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54

EMPR OF 1990-30

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; \*637 (Occurrence 172) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/07/04 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW062

NATIONAL MINERAL INVENTORY:

NAME(S): **JEN JEN**, MICROWAVE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11W

MINING DIVISION: Kamloops

EASTING: 330416

PAGE:

REPORT: RGEN0100

148

NTS MAP: 082L11W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 41 35 N NORTHING: 5618443

LONGITUDE: 119 24 04 W ELEVATION: 1402 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Radioactive contact, near the microwave tower at the headwaters of the east tributary of Gordon Creek, about 9 kilometres west of the

community of Salmon Arm (Assessment Report 6982, figure 181-5A).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: I15 Cl

TYPE: I15 Classical U veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Silver Creek

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Granodiorite Schist Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

#### CAPSULE GEOLOGY

The Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group), a sequence of highly deformed, moderately metamorphosed rocks comprised of micaceous schist and quartzite, is intruded by Cretaceous? granodiorite and pegmatite equivalents. These rocks are locally overlain by conglomerates, which are overlain by andesitic and basaltic flows, all of the Eocene Kamloops Group.

A strongly radioactive zone is associated with the contact between the granodiorite and dark grey to black schist. The rocks are cut by quartz-feldspar-mica pegmatite. The north-northeast trending zone coincides with an interpreted fault. A GR410 Exploranium spectrometer recorded a total count of 10,430 counts per minute, with a uranium count of 598 counts per minute (backgrounds are 6000 counts per minute and 300 counts per minute, respectively). A nearby water sample analysed 20 parts per billion uranium and downslope soils assayed up to 130 parts per million uranium (Assessment Report 6982). Another radioactive zone occurs 1000 metres to the north.

This area also contains paleochannel gravels capped by basalt. However, no significant radioactivity was discovered associated with the indurated gravels.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*6982, 7580
EMPR EXPL 1978-97; 1979-105
EMPR OF 1990-32
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)
GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637 (Occurrence 181)
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/05 REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW063

NATIONAL MINERAL INVENTORY:

NAME(S): **SYPHON** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

150

LATITUDE: 50 43 20 N

NORTHING: 5621650 EASTING: 331599

LONGITUDE: 119 23 09 W ELEVATION: 1120 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Geochemical sample site between Syphon and Palmer creeks, about 8 kilometres west of the community of Salmon Arm (Assessment Report

7319, figure 11-C).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: I15 CI

Classical U veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE

Proterozoic-Paleoz. Cretaceous

Mount Ida

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Granodiorite Pegmatite

Micaceous Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Thompson Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group), a sequence of highly deformed, moderately metamorphosed rocks comprised of micaceous schist and quartzite, is intruded by Cretaceous? granodiorite and pegmatite equivalents. These rocks are locally overlain by conglomerates, which are overlain by andesitic and basaltic flows, all of the Eocene Kamloops Group. A strong north-northeast lineation cuts the rocks.

**FORMATION** 

Silver Creek

A geochemical anomaly occurs over the granodiorite and linear trend. A sample assayed 0.054 per cent uranium by hot nitric acid extraction and 0.045 per cent uranium by neutron activation. The value is supported with a 20,000 counts per minute reading on a McPhar TV-1A spectrometer. Background is 6000 counts per minute (Assessment Report 7319).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7319, 7806 EMPR EXPL 1978-98; 1979-105-106

EMPR OF 1990-32

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 182, 183)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/05 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW064

NATIONAL MINERAL INVENTORY:

NAME(S): BLIND BAY, NOTCH HILL, SHUSWAP LAKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L14W BC MAP:

LATITUDE: 50 52 46 N LONGITUDE: 119 22 20 W ELEVATION: 351 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located on the southwest side of Blind Bay (CANMET Report 811, page

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Graphite Mica Quartz

MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone

DIMENSION: Metres COMMENTS: Bedding attitude along beach.

STRIKE/DIP: 005/15W

TREND/PLUNGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5639100 EASTING: 333121

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Paleozoic Mount Ida

**FORMATION** Sicamous

IGNEOUS/METAMORPHIC/OTHER

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LITHOLOGY: Limestone

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland RELATIONSHIP:

YEAR: 1944

GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Chip

Assay/analysis

COMMODITY

**GRADE** 

Limestone

51.7800 Per cent

COMMENTS: Across 3.0 metres of strata. Grade given for calcium oxide. REFERENCE: CANMET Report 811, page 191, sample 50.

**CAPSULE GEOLOGY** 

Limestone outcrops along the beach on the southwest side of Blind Bay, on the south shore of Shuswap Lake. The limestone lies on the northern edge of a belt of limestone and schist of the lower Paleozoic Sicamous Formation (Mount Ida Group), which trends westward for 27 kilometres. The limestone on the beach strikes 005 degrees and dips 15 degrees west.

The beach exposures reveal fine grained, dark blue, thinly bedded, graphitic limestone displaying mica flakes along bedding planes. Numerous white calcite veins and a few quartz veins, 5 to 10

centimetres thick, cut across the bedding. Several thin, platy masses of dark blue dolomite are exposed at one point.

A chip sample taken across 3.0 metres of strata analysed 51.78 per cent CaO, 0.75 per cent MgO, 4.04 per cent SiO2, 0.59 per cent Al203, 0.66 per cent Fe203 and 0.06 per cent sulphur (CANMET Report 811, page 191, Sample 50).

**BIBLIOGRAPHY** 

EMPR AR 1960-143

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A GSC MEM 296, pp. 21-22 GSC OF 481; 637

MINFILE NUMBER: 082LNW064

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CANMET RPT 811, Part 5, pp. 185,187,191 CJES Vol.13, pp. 44-53; Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: PSF REVISED BY: GO DATE CODED: 1989/09/19 DATE REVISED: 1995/06/27 FIELD CHECK: N

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

PAGE: 153 REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW065

NATIONAL MINERAL INVENTORY:

NAME(S): BENCH

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E BC MAP:

MINING DIVISION: Vernon Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 50 40 00 N LONGITUDE: 119 07 58 W ELEVATION: 716 Metres

NORTHING: 5614928 EASTING: 349281

LOCATION ACCURACY: Within 1 KM COMMENTS: Located from GSC Open File 637 (Occurrence 188), situated about 11

kilometres east-southeast of the community of Salmon Arm.

COMMODITIES: Copper

Lead 7inc

MINERALS
SIGNIFICANT: Unknown

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

GROUP Mount Ida

**FORMATION** Tsalkom

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chloritic Phyllite

Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The Bench showing is located within the lower Paleozoic Tsalkom Formation (Mount Ida Group) which is comprised of chloritic phyllite and greenstone, with minor amphibolite, black phyllite, limestone, marble, conglomerate and serpentinite. GSC Open File 637 (Occurrence 188) indicates that it is a copper-lead-zinc showing. No other

information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54

EMPR OF 1990-30
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

GSC MEM 296

GSC OF 481; \*637 (Occurrence 188)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/30

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW066

NATIONAL MINERAL INVENTORY:

NAME(S): MARA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082L11E BC MAP:

NORTHING: 5616313 EASTING: 352738

PAGE:

REPORT: RGEN0100

154

LATITUDE: 50 40 48 N

LONGITUDE: 119 05 04 W ELEVATION: 503 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located from GSC Open File 637 (Occurrence 189), about 14 kilometres east of the community of Salmon Arm.

Lead

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Unknown

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Mount Ida

**FORMATION** 

Tsalkom

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Gréenstone Limestone Marble Conglomerate Serpentinite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Mara occurrence is located from GSC Open File 637 (Occurrence 189) and is described as a copper-lead showing. Nothing else is known about the mineralization. Recent geology maps indicates the area is underlain by the lower Paleozoic Tsalkom Formation (Mount Ida Group) comprising greenstone, phyllite, minor amphibolite, limestone,

conglomerate and serpentinite.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54

EMPR OF 1990-30
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; \*637 (Occurrence 189)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1995/05/15 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW067

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5610553 EASTING: 312457

REPORT: RGEN0100

155

NAME(S): PILLAR LAKE, FALKLAND BRICK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L12E BC MAP:

LATITUDE: 50 37 00 N LONGITUDE: 119 39 04 W ELEVATION: 868 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located about 14 kilometres north of Falkland (GSC Open File 637,

Stratabound

Occurrence 211).

COMMODITIES: Clay

MINERALS
SIGNIFICANT: Clay MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Massive

CLASSIFICATION: Residual

Sedimentary

F07 TYPE: B06 Fireclay Sedimentary kaolin

Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal FORMATION

LITHOLOGY: Calcareous Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

CAPSULE GEOLOGY

Along Pillar Lake road, light brown and very calcareous clay occurs. The clay has the following characteristics (Bulletin 30,

Workability - 30.8 per cent water; very plastic Drying Characteristics - Safe drying at 85 degrees Celsius; Safe drying at 85 degrees Celsius; average shrinkage, 8.3 per cent

Firing Characteristics -

Cone 08 Cone 06 Cone 04 Cone 02 16.2 16.0 5.6 2.8 Absorption Shrinkage 6.8 Dark salmon Brown-red Very hard Dark salmon Dark salmon Colour Miscellaneous Fairly hard Fairly hard,

scummed

Remarks - P.C.E.=3.5. Suitable for common brick and tile.

**BIBLIOGRAPHY** 

EMPR BULL \*30, p. 50

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 211)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

Placer Dome File

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1995/05/08 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW068

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5605997 EASTING: 343947

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

156

NAME(S): **ELMER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L11E BC MAP:

LATITUDE: 50 35 06 N LONGITUDE: 119 12 16 W ELEVATION: 609 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located south of Gardom Lake, about 6 kilometres north-northwest of the community of Enderby (GSC Open File 637 (Occurrence 213)).

COMMODITIES: Mica

MINERALS SIGNIFICANT: Mica MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P METAMORPHIC-HOSTED

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP Mount Ida

LITHOLOGY: Micaceous Schist

Pelitic Schist Quartzite Micaceous Quartzite Calcareous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

**FORMATION** 

Silver Creek

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The Elmer mica occurrence is located from GSC Open File 637 and is situated northwest of the community of Enderby. Jones (GSC Memoir 296) describes that some of the more highly metamorphosed parts of the Silver Creek Formation contain highly micaceous schists. Current geology maps indicate the area of the showing is underlain by pelitic schist, quartzite, micaceous quartzite and calcareous quartzite of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida

Group).

**BIBLIOGRAPHY** 

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

GSC MEM 296, p. 157 GSC OF 481; \*637 (Occurrence 213) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/11 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW069

NATIONAL MINERAL INVENTORY:

NAME(S): LOGAN GULCH, ENDERBY COAL MINING

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 36 06 N

NORTHING: 5607550 EASTING: 354439

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

157

LONGITUDE: 119 03 25 W ELEVATION: 1128 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: A number of claims owned by the Enderby Coal Mining Company, situated on the east side of the Shuswap River about 8 kilometres northeast of the community of Enderby (Minister of Mines Annual Report 1905).

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary Fossil Fuel

TYPE: A04 Bituminous coal

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Eocene

**GROUP** Kamloops **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sandstone

Shale Conglomerate Coal

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

#### **CAPSULE GEOLOGY**

The location of the Logan Gulch coal occurrence is described as claims situated on the east side of the Shuswap River about 8 kilometres northeast of Enderby (Minister of Mines Annual Report 1905, page J193). Current geology maps indicates the area is close to the contact between a predominantly volcanic succession of andesite, basalt, dacite, trachyte flows, breccias and tuffs, and a sedimentary succession comprised of conglomerate, sandstone, shale, coal and tuff. All rock units are part of the Eocene Kamloops Group.

Cairnes (1932) describes the Tertiary coal occurrences in the area as seams varying from a few centimetres to over 30 centimetres in thickness, composed of alternating thin layers of coal and sandstone or shale. In other instances, the coal seams are merely strata containing abundant, partly to completely carbonized fossil remains of plants.

Minister of Mines Annual Report 1904 (page G233) describes the discovery of a seam of coal near the summit of a mountain, about 8 kilometres north of Enderby. The coal is said to be of excellent quality and is stated to be 1.2 metres thick, but may prove to be of greater extent, as it is partly covered by slides from the mountain.

BIBLIOGRAPHY

EMPR AR \*1904-G233; 1905-J193

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

GSC MEM \*296, pp. 162,163 GSC OF 481; 637 (Occurrence 215)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

Falconbridge File

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/11 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNW069

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW070

NATIONAL MINERAL INVENTORY:

NAME(S): **COAL GULCH** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L11E BC MAP: LATITUDE: 50 37 36 N

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

158

LONGITUDE: 119 04 04 W ELEVATION: 792 Metres

NORTHING: 5610351 EASTING: 353750

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located from GSC Open File 637 (Occurrence 216) and situated about 10

kilometres north-northeast of the community of Enderby.

COMMODITIES: Coal

MINERALS
SIGNIFICANT: Coal MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary Fossil Fuel

TYPE: A04 Bituminous coal

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene GROUP Kamloops **FORMATION** 

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sandstone

Shale Coal Conglomerate Tuff`

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Overlap Assemblage Kootenay

CAPSULE GEOLOGY

The Coal Gulch occurrence is located from GSC Open File 637 (Occurrence 216) and is situated 10 kilometres north-northeast of the community of Enderby. Current geology maps indicates the area is close to the contact between a predominantly volcanic succession of andesite, basalt, dacite, trachyte flows, breccias and tuffs, and a sedimentary succession comprised of conglomerate, sandstone, shale, coal and tuff. All rock units are part of the Eocene Kamloops Group. Cairnes (1932) describes the Tertiary coal occurrences in the area as seams varying from a few centimetres to over 30 centimetres in thickness, composed of alternating thin layers of coal and sandstone or shale. In other instances, the coal seams are merely

strata containing abundant, partly to completely carbonized fossil

remains of plants.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54

EMPR OF 1990-30

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A

GSC MEM \*296, pp. 162,163 GSC OF 481; \*637 (Occurrence 216) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/11 CODED BY: GSB REVISED BY: GO

MINFILE NUMBER: 082LNW070

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW071

NATIONAL MINERAL INVENTORY:

NAME(S): MARA COPPER, MARA 2

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E BC MAP:

MINING DIVISION: Kamloops Vernon UTM ZONE: 11 (NAD 83) NORTHING: 5613194 EASTING: 354871

PAGE:

REPORT: RGEN0100

159

LATITUDE: 50 39 09 N LONGITUDE: 119 03 11 W ELEVATION: 670 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Near the falls in Bongard Creek, about 13 kilometres north-northeast of the community of Enderby (Property File - Sketch map, 1954).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

COMMENTS: Chalcopyrite is inferred; trace of copper is reported.

ASSOCIATED: Quartz

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**GROUP** STRATIGRAPHIC AGE

Paleozoic Mount Ida Proterozoic-Paleoz.

FORMATION Tsalkom

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Argillite Slate

Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Mara Copper showing is located near the fault contact between the Proterozoic and/or Paleozoic Shuswap assemblage and the lower Paleozoic Tsalkom Formation (Mount Ida Group). Several quartz veins appear to cut argillite and slate of the Tsalkom Formation with Shuswap assemblage gneiss outcrops nearby. A trace of copper has been reported (chalcopyrite is the inferred mineralization).

**BIBLIOGRAPHY** 

EMPR ASS RPT 3394

EMPR FIELDWORK 1988, pp. 49-54

EMPR OF 1990-30

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet; \*Sketch map, 1954)

GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 217) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N REVISED BY: GO DATE REVISED: 1995/05/12 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW072

NATIONAL MINERAL INVENTORY:

NAME(S): SILVER CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

160

LATITUDE: 50 35 24 N

NORTHING: 5606202 EASTING: 356231

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LONGITUDE: 119 01 52 W ELEVATION: 792 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located from GSC Open File 637 (Occurrence 218), near Brash Creek and

about 9 kilometres east-northeast of the community of Enderby.

COMMODITIES: Silver

MINERALS SIGNIFICANT: Unknown

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

LITHOLOGY: Quartzofeldspathic Gneiss

Biotite Quartz Schist

**Amphibolite** Quartzite Marble Granite Granodiorite Peamatite

Granodiorite Tonalite Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Silver Creek showing is located from GSC Open File 637 (Occurrence 218) and is described as a silver occurrence in quartz veins (GSC Memoir 296, page 150). Geology maps show the area to be underlain by the Proterozoic and/or Paleozoic Shuswap assemblage consisting of quartzofeldspathic gneiss, biotite quartz schist, amphibolite, quartzite, marble, granite, granodiorite, pegmatite and granodioritic to tonalitic gneiss.

**FORMATION** 

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 49-54
EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A GSC MEM \*296, p. 150 GSC OF 481; \*637 (Occurrence 218) GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/10 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW073

NATIONAL MINERAL INVENTORY:

PAGE:

Vernon UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

NORTHING: 5612805 EASTING: 356648

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

161

NAME(S): MARA 1

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L11E BC MAP:

LATITUDE: 50 38 58 N LONGITUDE: 119 01 40 W ELEVATION: 1067 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located along the south fork of Ptarmigan Creek, about 14 kilometres north-northeast from the community of Enderby (Property File - Sketch

map).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite

COMMENTS: Inferred from "Zn show". ASSOCIATED: Quartz Carbonate

Pyrite ALTERATION: Silica ALTERATION TYPE: Silicific'n Carbonate

Carbonate MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Shear

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** 

Paleozoic Mount Ida Tsalkom

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Mara 1 showing is located near the fault contact between the Proterozoic and/or Paleozoic Shuswap assemblage and the lower Paleozoic Tsalkom Formation (Mount Ida Group). A zone, 1.8 to 2.4 metres thick, of parallel, bedded quartz-carbonate-pyrite veins occur in silicified and carbonatized argillite of the Tsalkom Formation. A shear is evident in the vein zone. The country rock strikes 320 degrees and dips 20 to 25 degrees southwest. The main zinc showing is on the south side of the south fork of Ptarmigan Creek.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 54-58

EMPR OF 1990-30

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet; \*Sketch map, 1954)

GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW074

NATIONAL MINERAL INVENTORY:

NAME(S): **AB 9** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

162

LATITUDE: 50 30 01 N LONGITUDE: 119 29 28 W ELEVATION: 1005 Metres

NORTHING: 5597221 EASTING: 323339

MINING DIVISION: Kamloops

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located south of Bolean Lake, west of Silvernail Lake, about 6 kilometres east of the community of Falkland (Assessment Report

4830).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal TYPE: G04 Bessh Epigenetic Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation Nicola

LITHOLOGY: Limestone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The AB 9 showing is inferred to be similar to the AB 10 showing (082LNW038), 500 metres to the north. It consists of disseminated chalcopyrite and pyrite in impure, brown limestone. The limestone is within an argillite sequence of the Upper Triassic Nicola Group.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4830 EMPR GEM 1973-100,101

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

GSC OF 481; 637 (Occurrence 227)

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW075

NATIONAL MINERAL INVENTORY:

NAME(S): SORRENTO LIMESTONE, NOTCH HILL

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

163

LATITUDE: 50 52 40 N LONGITUDE: 119 25 39 W ELEVATION: 457 Metres

NORTHING: 5639041 EASTING: 329227

MINING DIVISION: Kamloops

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centred on the site of Sample 1, 3.0 kilometres east of the community of Sorrento (Minister of Mines Annual Report 1960, page

143).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Graphite
MINERALIZATION AGE: Paleozoic

Mica

Quartz

Pyrite

DEPOSIT

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Massive Industrial Min.

TYPE: R09 Limestone

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** Paleozoic

**FORMATION** Mount Ida Sicamous

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: ROADCUT

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1960

COMMODITY

**GRADE** 

Limestone

Per cent 46.4400 COMMENTS: Taken along a 259 metre long roadcut. Grade given for calcium oxide.

REFERENCE: Minister of Mines Annual Report 1960, page 144, Sample 1.

**CAPSULE GEOLOGY** 

Various exposures of limestone occur along Highway 1 (Trans-Canada Highway), 1.6 to 3 kilometres east of Sorrento. These outcrops are situated near the west end of a 27 kilometre long, westtrending belt of limestone and schist of the lower Paleozoic Sicamous Formation (Mount Ida Group).

The limestone is fine grained and dark grey. Micaceous and graphitic partings give the limestone a platy appearance. Numerous white calcite veinlets and white quartz veins cut the rock.

Scattered patches of pyrite are also present.

A sample composed of chips taken at 6.1-metre intervals along a 259 metre long roadcut, 3 kilometres east of Sorrento, analysed 46.44 per cent CaO, 0.90 per cent MgO, 11.84 per cent insolubles, 1.20 per cent R2O3, 1.29 per cent Fe2O3, 0.04 per cent MnO, 0.021 per cent P2O5, 0.04 per cent sulphur and 38.77 per cent ignition loss (Minister of Mines Annual Report 1960, page 144, Sample 1).

**BIBLIOGRAPHY** 

EMPR AR 1960-143,144

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet)

GSC MAP 1059A

GSC MEM 296, pp. 21,22 GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

CANMET RPT 811, Part 5, p. 185 CJES Vol.13, pp. 44-53; Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/27 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW076

NATIONAL MINERAL INVENTORY:

NAME(S): ROBBINS CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L12W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

165

LATITUDE: 50 36 49 N LONGITUDE: 119 57 31 W ELEVATION: 609 Metres

NORTHING: 5611037 EASTING: 290694

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located just east of Robbins Creek, about 4 kilometres south of the community of Monte Creek and the South Thompson River (GSC Paper

72-53).

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Agate Amethyst

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic TYPE: Q03 Agate

Industrial Min.

Q04 Amethyst

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene **GROUP** 

**FORMATION** Undefined Formation Kamloops

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage

CAPSULE GEOLOGY

Agate and amethyst-lined geodes occur in bluffs of columnar basalt of the Eocene Kamloops Group. This locality has been hunted for years so that material is less abundant than now; most of the specimens were labouriously chiseled from the parent rock (GSC Paper

72-53, page 23).

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GSC MAP 1059A
GSC MEM 296
GSC OF 481; 637

GSC P 48-4; \*72-53, pp. 22,23; 74-1A, pp. 25-30; 86-1A, pp. 81-88;

89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-11931

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/02 CODED BY: FIELD CHECK: N REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW077

NATIONAL MINERAL INVENTORY:

NAME(S): SQUILAX

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082L13E BC MAP:

NORTHING: 5637352 EASTING: 317078

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 51 32 N LONGITUDE: 119 35 57 W ELEVATION: 366 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located 8 kilometres east of the community of Chase (Western Homes

and Living, October 1961).

COMMODITIES: Agate

Gemstones

MINERALS SIGNIFICANT: Agate MINERALIZATION AGE:

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Industrial Min. TYPE: Q03 Agate

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Ünknown

GROUP Unnamed/Unknown Group

FORMATION Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Talus

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Overlap Assemblage Kootenay

**CAPSULE GEOLOGY** 

A fine quality of blue agate is reported to occur 8 kilometres east of the community of Chase. The slide in which it is found meets the Trans-Canada Highway at the Little River fishing camp, beside Little Shuswap Lake. The Little River itself contains some carnelian agate of good quality. Also, the road from Squilax station through Turtle Valley leads to several locations on the south slope of

Squilax Mountain.

**BIBLIOGRAPHY** 

EMPR PF (\*Western Homes and Living, Oct.1961, pp. 21,22; General File - Dawson, G.M. (1898): Geology map of Shuswap Sheet)

GSC MAP 1059A

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Western Homes and Living Oct. 1961

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/12 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW078

NATIONAL MINERAL INVENTORY:

NAME(S): WOOF 3, ADAM-C

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

50 58 38 N

NORTHING: 5650616 EASTING: 314519

UTM ZONE: 11 (NAD 83)

LONGITUDE: 119 38 32 W ELEVATION: 1240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole collar located near the headwaters of Hustalen Creek, east of Adams Lake, about 18 kilometres north of the community of Chase

(Assessment Report 20640).

Silver Gold COMMODITIES: Copper 7inc

SIGNIFICANT: Chalcopyrite

Sphalerite

ASSOCIATED: Pyrite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic

Undefined Group Eagle Bay

**FORMATION** IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sericite Schist

Quartz Sericite Schist

Chlorite Phyllite

Argillaceous Sediment/Sedimentary

Granodiorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1990

SAMPLE TYPE: Drill Core

**GRADE** 

COMMODITY Copper 7inc

0.4000 Per cent Per cent 0.5800

COMMENTS: Drill core was re-logged and resampled with results of 0.58 per cent zinc over 4.14 metres, followed by 0.68 metre unmineralized, in turn

followed by 0.40 per cent copper over 4.15 metres including 1.04 per

cent copper over 1 metre.

REFERENCE: Assessment Report 20640, page 12.

**CAPSULE GEOLOGY** 

The Woof 3 occurrence area is underlain by a northeast trending belt of Devonian and/or older? felsic volcanics (sericite and quartz-sericite schists) of the Woolford Creek unit of the Eagle Bay assemblage, bounded to the north and south by intermediate volcanics of the Devonian Skwaam Bay unit of the Eagle Bay assemblage. Felsic volcanics consist largely of fragmental rocks (tuffs, lapilli tuffs, breccias). Local hard, massive exposures may represent flows. to surface oxidation, fragmental textures are generally only Due recognizable in drill core. Felsic volcanics characteristically contain 1-5 per cent disseminated and fracture-fill pyrite. The belt of felsic volcanics thins dramatically eastward. Lineations in the area plunge shallowly to the west-northwest.

Surrounding intermediate volcanics consist of a fairly monotonous sequence of chlorite phyllites. At the south end of the area, the chlorite phyllites are hornfelsic and intruded by dikes of foliated granodiorite.

MINFILE NUMBER: 082LNW078

PAGE: REPORT: RGEN0100

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NTS MAP: 082L13E BC MAP:

LATITUDE:

**MINERALS** 

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Minor argillaceous sediments have been identified in drill core along the southern felsic-intermediate volcanic contact. Minor disseminated and fracture-fill pyrite, chalcopyrite and sphalerite is present on surface and in drill core near this contact. Drill core from 1987 drilling was re-logged and re-sampled. Results include 0.58 per cent zinc over 4.14 metres, followed by 0.68 metre unmineralized, in turn followed by 0.40 per cent copper over 4.15 metres including 1.04 per cent copper over 1 metre (Assessment Report 20640, page 12).

In 1990, prospecting along the contact identified pyrite-chalcopyrite mineralization 350 metres to the east. A grab sample analysed 0.89 per cent copper, 17.6 grams per tonne silver and 0.20 gram per tonne gold (Assessment Report 20640, page 14).

#### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/14 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW079

NATIONAL MINERAL INVENTORY:

NAME(S): **ROCKY POINT** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L13E BC MAP:

LATITUDE: 50 51 35 N LONGITUDE: 119 39 02 W ELEVATION: 356 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on the first rocky point from the east end of Little Shuswap Lake, on the north side, about 5 kilometres from the community of

Chase (GSC Annual Report 1877-78).

COMMODITIES: Bismuth

**MINERALS** 

SIGNIFICANT: Bismuthinite ASSOCIATED: Quartz

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

**Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE Ordovician Mount Ida **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5637573 EASTING: 313465

REPORT: RGEN0100

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LITHOLOGY: Granitic Gneiss

Granite

HOSTROCK COMMENTS: Little Shuswap orthogneiss of the Mount Ida assemblage.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

At the Rocky Point showing, irregular quartz veins up to 15 centimetres wide, contain large prismatic crystals of bismuthinite. The hostrock is granitic gneiss of the Ordovician Little Shuswap orthogneiss of the Mount Ida Group. The granite at the showing contains large twinned orthoclase crystals.

**BIBLIOGRAPHY** 

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Sheet)

GSC ANN RPT \*1877-78, p. 101B

GSC MAP 1059A GSC MEM 296

GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/06/07 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082LNW079

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW080

NATIONAL MINERAL INVENTORY:

NAME(S): TAPPEN

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L11W BC MAP:

NORTHING: 5620069 EASTING: 333668

LATITUDE: 50 42 31 N LONGITUDE: 119 21 21 W ELEVATION: 487 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: South-half of Sec.30 Tp.20 R10 W6, about 6.5 kilometres west of the community of Salmon Arm.

COMMODITIES: Gypsum

MINERALS SIGNIFICANT: Gypsum

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Industrial Min. TYPE: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal **FORMATION** 

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

No information is available regarding the Tappen gypsum showing.

Recent geology maps indicates the area is underlain by Cretaceous?

granodiorite.

**BIBLIOGRAPHY** 

EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A GSC MEM 296

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DATE CODED: 1985/07/24 DATE REVISED: 1995/06/06 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW081

NATIONAL MINERAL INVENTORY:

NAME(S): POOLEY LAKE, YOO HOO, EP 2

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L12W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

171

LATITUDE: 50 39 59 N NORTHING: 5617015 EASTING: 288181

LONGITUDE: 119 59 51 W ELEVATION: 700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Yoo Hoo showing located 1.75 kilometres north of the South Thompson River and the Trans-Canada Highway, about 3.5 kilometres west-

northwest from the community of Monte Creek (Assessment Report 20016).

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Arsenopyrite Pyr COMMENTS: Possibly tetrahedrite. Pyrite Tetrahedrite

ASSOCIATED: Quartz Chalcedony Carbonate ALTERATION: Silica

Carbonate **Epidote** Limonite Hematite Clay Chlorite

ALTERATION TYPE: Silicific'n Propylitic Carbonate Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Stockwork

CLASSIFICATION: Epithermal

TYPE: H05 Epithermal Au-Ag: low sulphidation

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Upper Triassic Undefined Formation

LITHOLOGY: Andesite

Andesitic Flow Lapilli Tuff

Sediment/Sedimentary Feldspar Porphyritic Diorite Dike

Porphyritic Syeno Diorite Dike

Gossan

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

INVENTORY

REPORT ON: N ORE ZONE: VEINS

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1989

**COMMODITY GRADE** 

Gold 3.0000 Grams per tonne

REFERENCE: Assessment Report 20016, page 24.

**CAPSULE GEOLOGY** 

The Pooley Lake property lies near the eastern margin of the Intermontane Belt and covers northwesterly striking Upper Triassic Nicola Group volcanics overlain by flat lying Eocene basalts of the

Kamloops Group.

Volcanic and volcaniclastic rocks of the Nicola Group dominate the southern part of the property and comprise massive and variably porphyritic andesitic flows, lapilli tuffs and minor sedimentary units. This thick, north to northwesterly trending sequence is cut by a number of feldspar porphyritic syenodiorite and diorite dikes.

A significant amount of brittle fracturing is evident where faulting occurs as well defined single fractures, zones of multiple fractures, breccia zones and areas of pervasive weak brecciation with gradational boundaries. Three dominant fracture orientations control veining and alteration and the average strikes and dips are: 145 degrees dipping 70 degrees southwest; 074 degrees dipping 30 degrees northwest to 20 degrees southeast; and 034 degrees dipping 80 degrees

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

northwest to 80 degrees southeast.

Alteration can be divided into two distinct types: 1) Alteration associated with well defined faults and structural zones. Associated with veining - wallrock silicification and carbonate alteration. The type depends largely on vein composition i.e. quartz and/or carbonate. b) Veining weak to absent. Virtually all the fault structures on the cliff face are oxidized to some degree. Most are limonitic, some are strongly hematitic. Many of the stronger structures have associated clay alteration. Structurally controlled breccia zones fall into this category including chloritic and strongly hematitic breccia zones, largely at the Yoo Hoo showing. c) Wallrock silicification adjacent to diorite and syenodiorite dikes. In addition, some dikes have been subject to later fracturing and silicification. 2) Widespread, pervasive alteration. Fairly large areas at the Yoo Hoo and EP 2 showings have been subject to pervasive hematitic alteration which is not clearly related to well defined structural zones. Moderate to strong, pervasive epidote (propylitic) alteration occurs at both showings and is patchy. A core zone of strong alteration and usually moderate fracturing/jointing fades outwards to patchy, pervasive (weak) alteration then veinlet epidote.

At the Yoo Hoo showing, northwesterly trending and steeply dipping structures commonly contain narrow quartz-chalcedony veins with minor carbonate mineralized with local fine arsenopyrite, pyrite and tetrahedrite? These are narrow, between 0.5 and 1.8 metres wide, with much pinch and swell. They can be traced for over 100 metres; vein contacts are sharp with little wallrock silicification. Most of the gold values greater than 3 grams per tonne and up to 14.6 grams Most of per tonne come from these veins (Assessment Report 20016, page 24). Mapping shows a close spatial relationship between these veins and a series of alkalic, dioritic to syenodioritic dikes with similar trend.

Flat-lying structures generally feature narrow, clay alteration zones with or without quartz-carbonate veining in the western part of the showing area. In the eastern part, these zones combined with a large number of other vein structures form a prominent and limonitic gossan. This apparently flat lying alteration/vein zone is over 300 metres long with widespread bleaching obscuring original textures. Vein and fault structures pinch and swell, changing orientation over short distances with numerous truncations. The veins themselves can be quartz and/or carbonate and/or chalcedony. Many tend to be narrow and in swarms. Gold values (up to 3 grams per tonne) appear to be  $\frac{1}{2}$ associated with white to grey quartz, not chalcedony.

The EP 2 showing, about 1800 metres east of the Yoo Hoo showing, is dominated by a number of strong, northeasterly trending, poorly mineralized quartz-carbonate vein systems between 1 and 10 metres These veins vary from single veins through stockworks to silicified breccias, and display massive to locally vuggy textures. Milky quartz and carbonate dominate with lesser amounts of banded grey quartz, chalcedony and white barite. Sulphides are generally rare. Wallrock alteration consisting of bleaching, silicification, carbonate, limonitic and/or hematitic alteration may extend for many metres from the veins. Of 68 chip samples taken, only two produced significant gold values with 1 gram per tonne and 0.3 gram per tonne; both samples were 2-metre panel samples from flat-lying veins.

#### **BIBLIOGRAPHY**

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1995/05/04 FIFLD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW082

NATIONAL MINERAL INVENTORY:

NAME(S): **BARNES LAKE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L12W BC MAP:

MINING DIVISION: Kamloops

LATITUDE: 50 37 21 N

UTM ZONE: 11 (NAD 83) NORTHING: 5612132 EASTING: 288062

PAGE:

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173

LONGITUDE: 119 59 47 W ELEVATION: 533 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located 4 kilometres south-southwest from the community of Monte Creek, about 3 kilometres south of the Trans-Canada Highway and the

South Thompson River (Bulletin 4).

Sodium Carbonate COMMODITIES: Hydromagnesite

**MINERALS** 

SIGNIFICANT: Hydromagnesite

COMMENTS: Also Natron.

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Residual Evaporite Industrial Min.

Playa and Alkaline Lake Evaporites TYPE: F09

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Unknown Unnamed/Unknown Informal

LITHOLOGY: Hydromagnesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** Sodium Carbonate 97.5000 Per cent

COMMENTS: Also analysed 0.5 per cent NaCl, 0.9 per cent insolubles and 0.7 per cent Fe2O3.

REFERENCE: Bulletin 4, page 29.

**CAPSULE GEOLOGY** 

Impure, grey hydromagnesite, up to 60 centimetres thick, and covered with about 30 centimetres of soil, underlies a couple of

hectares near the north end of Barnes Lake.

The lake, with an area of 14 to 16 hectares, also contains a sodium carbonate brine to an average depth of 15 centimetres over a large part of the bed. The muddy shoreline and dry portions of the bed are heavily encrusted with dried soda (circa 1937). In the autumn of 1932, a 7-centimetre layer of natron covered a large part of the lake a sample of which are layer of natron covered a large part of the lake, a sample of which analysed 97.5 per cent Na2CO3, 0.5 per cent NaCl, 0.9 per cent insolubles and 0.7 per cent Fe2O3.

Recalculated to a 100 per cent water free basis, the sample as assayed contained 58.9 per cent water of composition (Bulletin 4,

page 29).

Several 1.2-metre holes at various points about 4.5 metres from the shore were drilled; no deposit of solid crystals were intersected, but small natron crystals were noted in the mud. Apparently, the muddy bottom contains a fairly high proportion of disseminated crystals and it is reported that a solid layer, 7 to 15 centimetres thick, was intersected at a depth of 1.8 metres (Bulletin

4, page 29).

**BIBLIOGRAPHY** 

EMPR BULL \*4, pp. 29,103,115 EMPR FIELDWORK 2000, pp. 327-336

MINFILE NUMBER: 082LNW082

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 DATE REVISED: 1995/05/04 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW083

NATIONAL MINERAL INVENTORY:

NAME(S): CANOE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L14E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 50 47 00 N

NORTHING: 5627971 EASTING: 347188

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

175

LONGITUDE: 119 10 04 W ELEVATION: 400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located in the Larch Hills, 4 kilometres east of the community of Canoe and 10 kilometres northeast of the community of Salmon Arm.

COMMODITIES: Feldspar

MINERALS SIGNIFICANT: Feldspar

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

TYPE: O04 Feldspar-quartz pegmatite

**HOST ROCK** 

Paleozoic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP Mount Ida

Mount Ida

**FORMATION** 

Silver Creek Tsalkom

LITHOLOGY: Felsite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

No information is available for the Canoe feldspar showing, except for the description of a felsite rock. Recent geology maps indicates the area is near the contact between the Hadrynian and/or Paleozoic Silver Creek Formation and the lower Paleozoic Tsalkom

Formation (both of the Mount Ida Group).

**BIBLIOGRAPHY** 

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Sheet) GSC MAP 1059A GSC MEM 296 GSC OF 481; 637

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DATE CODED: 1985/07/24 DATE REVISED: 1995/05/31 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

MINFILE NUMBER: 082LNW083

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW084

NATIONAL MINERAL INVENTORY:

NAME(S): WOOLFORD CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

176

LATITUDE: 50 59 34 N NORTHING: 5652414 EASTING: 312671

LONGITUDE: 119 40 10 W ELEVATION: 1249 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample site located west of Woolford Creek, east of Adams Lake, about 19 kilometres north of the community of Chase (Assessment Report

20640).

COMMODITIES: Copper Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena COMMENTS: Trace galena. ASSOCIATED: Pyrite

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Chlorite Phyllite

Sericite Schist Quartz Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1990 SAMPLE TYPE: Chip

COMMODITY 0.1400 Copper Per cent

REFERENCE: Assessment Report 20640, page 13.

CAPSULE GEOLOGY

The Woolford Creek showing area is underlain by intermediate volcanics, generally chlorite phyllite, of the Devonian Skwaam Bay unit of the Eagle Bay assemblage. A narrow band of felsic volcanics (sericite and quartz sericite schist) of the Devonian and/or older? Woolford Creek unit of the Eagle Bay assemblage is also evident. A narrow zone of heavy pyrite with malachite and chalcopyrite is related to crosscutting fractures in chlorite phyllite. A sample from here analysed 0.14 per cent copper (Assessment Report 20640,

page 13). Trace galena was noted in a trench.

**BIBLIOGRAPHY** 

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Sheet) GSC MAP 1059A

GSC MEM 296 GSC OF 481; 637

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

BIBLIOGRAPHY

CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/06/14 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW085

NATIONAL MINERAL INVENTORY:

NAME(S): TOP, FK, CAMPBELL

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L12E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

178

BC MAP: LATITUDE: 50 31 00 N LONGITUDE: 119 35 54 W ELEVATION: 1070 Metres

NORTHING: 5599303 EASTING: 315800

LOCATION ACCURACY: Within 500M

COMMENTS: Area of drilling and trenching, about 3 kilometres north-northwest

of Falkland (Assessment Report 13867).

COMMODITIES: Copper

Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite **Bornite** Chalcocite Malachite Digenite COMMENTS: Possible digenite. ALTERATION: Calcite Biotite Albite Chlorite Quartz K-Feldspar Amphibole

ALTERATION TYPE: Propylitic Potassic

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Shear Vein

CLASSIFICATION: Volcanogenic TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Volcanic Breccia

Augite Porphyry Breccia

Andesite Rhvolite Rhyolite Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis CATEGORY: YEAR: 1984 SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 3.8000 Grams per tonne Copper 0.9000 Per cent

COMMENTS: The best chip sample over 1.4 metres. REFERENCE: Assessment Report 13867, page 6.

CAPSULE GEOLOGY

The Top showing is underlain by rocks of the Upper Triassic and? Jurassic Nicola Group. Mineralization comprises finely Lower Jurassic Nicola Group. Mineralization comprises finely disseminated and fracture filling chalcopyrite, bornite, malachite, chalcocite and possibly digenite, found in a coarse volcanic breccia. This "augite porphyry" breccia is interbanded with some rhyolite and light-coloured flow rocks; some of the rhyolites are flow banded.

The mineralization is proximal to a Triassic diatreme.

Values from grab samples range up to 4.3 per cent copper and 18

grams per tonne silver; the best values occurring when chalcopyrite, chalcocite or bornite are present. The best chip sample assayed 0.9 per cent copper and 3.8 grams per tonne silver over 1.4 metres (Assessment Report 13867, page 6).

Fragments in the volcanic breccia are predominantly porphyritic green and buff lava, chert, micrite and rhyolite, generally in a finer, clastic crystal fragment-bearing green matrix. The porphyritic green phase is the most common rock type and, in mineralized areas, it has been altered predominantly to calcite with 20 per cent albite and some chlorite, quartz and K-feldspar. Phenocrysts are altered to vermiculite-hydrobiotite with small

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

amounts of chlorite, calcite and amphibole.

Away from the mineralized area, the volcanic breccia consists of sericitic to kaolinitic altered porphyry and clasts of altered microlitic volcanic flows. In this unit, relatively fresh augite phenocrysts are present. Apatite is often present in the chert and veinlets of quartz, K-feldspar and calcite are occasionally present.

South of the mineralized area, 1.5-metre green porphyry blocks are set in a fragmental green porphyry matrix. Occasional clasts are mineralized with copper and there are infrequent, well rounded, 5-centimetre diameter milled rock fragments.

To the north of the mineralized showing, outcrops in a narrow stream valley consist of "augite porphyry" and basalt breccia in faulted contact with a coarse conglomerate and interbedded calcite-cemented arkosic sandstone. The conglomerate and sandstone are cut by basaltic dikes; above is basalt-clast sandstone that grades upward into sandstone with plant fossils. It is suggested that the fault juxtaposes Triassic and Eocene Kamloops Group rocks.

The Top showing was first discovered by prospector D.J. Campbell of Peachland, in October 1980. Craigmont optioned the property shortly after, and during 1981 carried out 1094 metres of diamond drilling in 12 holes, 741 metres of percussion drilling in 17 holes and conducted a soil geochemical survey. In 1982, a 2-kilometre induced polarization survey was conducted and 575 metres of diamond drilling in 6 holes. Canamax optioned the property in 1983 and conducted a geochemical survey, geological mapping and hand trenching. In 1984, Canamax drilled 4 diamond-drill holes. Brical optioned the property in the fall of 1984 and completed 11 backhoe trenches totalling 556 metres.

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CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N REVISED BY: GO DATE REVISED: 1995/05/08 FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW086

NATIONAL MINERAL INVENTORY:

NAME(S): GRINDROD LIMESTONE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L11E BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 50 37 33 N LONGITUDE: 119 09 01 W ELEVATION: 512 Metres

NORTHING: 5610424 EASTING: 347913

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

180

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centred on site of Sample 2 (Minister of Mines Annual Report

1960, page 143).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Mica

Graphite Silica

MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone

DIMENSION: 6400 x 2500 STRIKE/DIP: TREND/PLUNGE: Metres COMMENTS: Limestone mass trends northwest.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Mount Ida Sicamous

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Limestone

Siliceous Limestone Granitic Dike Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1960 SAMPLE TYPE: Chip

**COMMODITY** 47.5300 Per cent Limestone

COMMENTS: Taken along 12 metres of limestone. Grade given for calcium oxide.

REFERENCE: Minister of Mines Annual Report 1960, page 144, sample 2.

**CAPSULE GEOLOGY** 

A mass of limestone of the lower Paleozoic Sicamous Formation (Mount Ida Group) extends northwest from the community of Grindrod for 6.4 kilometres. The mass varies up to 2.5 kilometres in width. The body is truncated by a fault along its northeast margin and intruded by a Cretaceous? granitic stock along its southwest flank.

Outcrops along the Grindrod-Mara road reveal siliceous limestone

with quartz veins and granitic dikes. A cut along a side road on a hill, 1.6 kilometres west of Grindrod, exposes platy, orange and black limestone with mica and graphite along partings. A sample taken along 12 metres of this exposure analysew 47.53 per cent CaO, 0.57 per cent MgO, 11.80 per cent insolubles, 1.28 per cent R2O3, 1.22 per cent Fe2O3, 0.04 per cent MnO, 0.03 per cent P2O5, 0.09 per cent sulphur, 38.72 per cent ignition loss and 0.24 per cent water. (Minister of Mines Annual Report 1960, page 144, sample 2).

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EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

Sheet) GSC MAP 1059A

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DATE CODED: 1989/09/20 DATE REVISED: 1995/05/30 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW087

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5619364 EASTING: 344541

REPORT: RGEN0100

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NAME(S): **SALMON ARM LIMESTONE**, LARCH HILLS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L11E BC MAP:

LATITUDE: 50 42 19 N LONGITUDE: 119 12 06 W ELEVATION: 671 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centred on a limestone outcrop on the west side of Larch Hills, about 6 kilometres east of the community of Salmon Arm (CANMET

Report 811, page 187).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Dolomite Qua MINERALIZATION AGE: Proterozoic-Paleoz. Quartz

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime Massive Industrial Min.

Limestone

DIMENSION: 250 x 76 Metres STRIKE/DIP: TREND/PLUNGE: 110/ COMMENTS: Limestone dips eastward.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Mount Ida Silver Creek

LITHOLOGY: Limestone

Dolomite Quartzite Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1944

SAMPLE TYPE: Chip

**COMMODITY GRADE** 54.8300 Per cent Limestone

COMMENTS: Taken across northwest end of outcrop. Grade given for calcium

oxide. REFERENCE: CANMET Report 811, page 191, sample 51.

CAPSULE GEOLOGY

The Salmon Arm Limestone deposit is situated on the west side of Larch Hills, 245 metres above Highway 97B, approximately 6 kilometres east of the town of Salmon Arm.

A band of limestone of the Hadrynian and/or Paleozoic Silver Creek Formation (Mount Ida Group) forms a small ridge trending 110 degrees along the west side of Larch Hills. The ridge is 250 metres long and 76 metres wide. The limestone appears to dip eastward into the hillside.

The ridge consists of white to bluish white, medium grained, fractured limestone with a few thin seams of brown weathering, blue dolomite along some of the fractures. The limestone also contains some quartz veins and a few inclusions of quartzite and shale. A sample taken across the northwest end of the ridge analysed 54.83 per cent CaO, 0.35 per cent MgO, 1.32 per cent SiO2, 0.21 per cent Al2O3, 0.14 per cent Fe2O3 and nil sulphur (Canada Bureau of Mines Report 811, page 191, sample 51).

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Sheet)

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GSC OF 481; 637
GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60
CANMET RPT \*811, Part 5, p. 187
CJES Vol.13, pp. 44-53; Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1989/09/19 DATE REVISED: 1995/05/31 CODED BY: PSF REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

PAGE:

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW088

NATIONAL MINERAL INVENTORY:

NAME(S): SHUSWAP LIMESTONE

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Kamloops

NTS MAP: 082L14E BC MAP:

LATITUDE: 50 55 58 N

NORTHING: 5644388 EASTING: 354604

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

184

LONGITUDE: 119 04 09 W ELEVATION: 427 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centred on a limestone bluff, about 30 kilometres north-northeast of

the community of Salmon Arm (GSC Open File 637).

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite

MINERALIZATION AGE: Lower Cambrian

DEPOSIT

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz.

GROUP Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

**CAPSULE GEOLOGY** 

A bluff of crystalline limestone of the Hadrynian? to Paleozoic Eagle Bay assemblage is situated on the west shore of Shuswap Lake (Salmon Arm), across from Quartzite Point. The limestone mass continues southwest for 7.5 kilometres.

Limestone was quarried and burnt to produce lime sometime during

the early 1900s.

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EMPR AR 1913-204

EMPR FIELDWORK 1988, pp. 49-54 EMPR PF (General File - Dawson, G.M. (1898): Geology map of Shuswap

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GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60 CJES Vol.21 (Oct.1984), pp. 1171-1193

DATE CODED: 1990/04/19 DATE REVISED: 1995/06/26 CODED BY: REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW089

NATIONAL MINERAL INVENTORY:

NAME(S): SHAW HILL

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L13W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

185

LATITUDE: 50 49 20 N

NORTHING: 5634320 EASTING: 289285

MINING DIVISION: Kamloops

LONGITUDE: 119 59 30 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing along new roadcut east of Heffley Lake, about 29 kilometres northeast of the community of Kamloops (Open File 2000-10).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite Malachite ASSOCIATED: Quartz Calcite ALTERATION: Malachite K-Feldspar ALTERATION TYPE: Oxidation

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Heffley Creek Pluton

LITHOLOGY: Diorite

Mafic Gabbro

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel Harper Ranch

INVENTORY

ORE ZONE: ROADCUT REPORT ON: N

> YEAR: 1999 CATEGORY: Assay/analysis

> SAMPLE TYPE: Grab

COMMODITY **GRADE** Silver 14.4000 Grams per tonne

Copper 0.8200 Per cent

REFERENCE: Fieldwork 1999, page 282.

**CAPSULE GEOLOGY** 

The immediate Heffley Lake area is extensively covered with superficial glacio-fluvial deposits and is estimated to have less than 1 per cent rock exposure. Stratified rocks mainly compr steeply dipping, northwest striking argillites and calcareous Stratified rocks mainly comprise siltstones with lesser andesitic ash and lapilli tuff and some limestone belonging to the Devonian to Permian Harper Ranch and/or Upper Triassic Nicola groups. These rocks were intruded by the Upper Triassic Nicola groups. These rocks were intruded by the possible Late Triassic to Early Jurassic mafic-ultramafic Heffley Creek pluton and then folded and overprinted by lower to sub-greenschist metamorphism producing slaty and phyllitic fabrics. Bleached marbles and calcsilicate-rich metasediments are developed

where hydrothermal or thermal alteration has occurred.

South of Heffley Lake are units of blue-grey crinoidal limestone and black argillite while north of the lake are coarsely clastic to conglomeratic limestone in the vicinity of the Heff skarn (092INE096) which lack crinoids and the argillites are less organic-rich. This and other lithological differences suggest that these rocks may be separated into northern and southern packages; these are tentatively believed to represent the Nicola and Harper Ranch groups respectively. The northwest trending contact between these packages is thought to pass under the Heffley lakes and continue southeastwards along Armour Creek. This original stratigraphic contact has been intruded by the Heffley Creek pluton and has subsequently been the locus of brittle movement along the Armour

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Creek fault (Fieldwork 1999).

Disseminated cumulate magnetite is common throughout the main Heffley Creek pluton but locally some pyrite +/- chalcopyrite +/- secondary copper oxides are also seen. Many of these sulphide-rich zones are characterized by silicification and plagioclase veining and they appear to be fault related. A new discovery, Shaw Hill, is a chalcopyrite-malachite-potassium feldspar occurrence found in a new roadcut and was discovered during the 1999 field season by the Geological Survey Branch. Hostrocks are mafic gabbro to diorite of the Heffley Creek pluton. Quartz-calcite veins occur nearby. A grab sample analysed 0.82 per cent copper and 14.4 grams per tonne silver (Fieldwork 1999).

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EMPR OF \*2000-10 GSC MAP 1059A GSC MEM 296 GSC OF 481

GSC P 48-4; 74-1A, pp. 25-30; 86-1A, pp. 81-88; 89-1E, pp. 51-60

DATE CODED: 2000/06/26 CODED BY: GO FIELD CHECK: N
DATE REVISED: 2000/06/26 REVISED BY: GO FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE001

NATIONAL MINERAL INVENTORY: 082L2 Au1

PAGE:

NORTHING: 5551766 EASTING: 392128

REPORT: RGEN0100

187

NAME(S): MONASHEE, RISKE (L.192), VERNON (L.193), MCINTYRE (L.194), RISKE (L.195), WITHROW (L.306), MOONBEAM, KETTLE 2, MORNING SUN,

FIFI D

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02E 082L01W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 06 30 N LONGITUDE: 118 30 31 W ELEVATION: 1265 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Upper adit (No.1) on the Withrow claim (Lot 306) near stamp mill site

(Assessment Report 11789).

COMMODITIES: Silver Zinc Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Gold Pyrite Sphalerite Chalcopyrite

Magnetite

ASSOCIATED: Quartz ALTERATION: Silica Clay

Chlorite ALTERATION TYPE: Silicific'n Argillic Chloritic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal TYPE: I05 Polym

hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 760 x 1 Metres STRIKE/DIP: 045/34E TREND/PLUNGE:

COMMENTS: The vein in the adit on the Withrow claim strikes northeast and dips 34 degrees southeast. The vein pinches and swells up to 1.5 metres in

width and has reportedly been traced on surface for 760 metres.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Meta Volcanic

Argillite Marble Limestone

Hornblende Biotite Granodiorite

Andesite Sill

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

REPORT ON: N ORE ZONE: VEIN

> YEAR: 1983 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab **GRADE** COMMODITY

Silver 161.8000 Grams per tonne Gold 24.9000 Grams per tonne Copper 0.3150 Per cent Lead 0.7100 Per cent

COMMENTS: Selected grab sample of quartz vein material from Withrow adit dump.

REFERENCE: Assessment Report 11789.

CAPSULE GEOLOGY

The Monashee deposit is located 20 kilometres south of Cherryville, just north of McIntyre Lake on the east side of Monashee

Pass.

Work was initially reported in 1886 but it may have begun earlier. Underground development and stockpiling of ore were carried out each year. The Riske (Lot 192), Vernon (Lot 193), McIntyre (Lot 194) and Riske (Lot 195) claims were Crown granted in 1887; the

MINFILE NUMBER: 082LSE001

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

Withrow (Lot 306) claim was Crown granted in 1890. The stamp mill was completed in and the workings comprised 3 adits: an upper adit at 1265 metres, driven 91 metres; a middle adit driven 10.7 metres; and a lower adit near the bottom of the hill driven 82.3 metres

a lower adit near the bottom of the hill driven 82.3 metres. In 1900, the Cherry Creek Gold Mining Co. Ltd. acquired the property and the adjoining McPhail (082LSE009) property. Drifting and crosscutting were done in the old adits. A 5-stamp mill operated for a short time in 1903. In 1907, the Fire Valley Gold Mining Co. Ltd. acquired the two properties. The old adits were reopened but no work was reported and the company ceased work in 1915. The Progressive Mining Co. Ltd. acquired the McIntyre, Morning Sun and Monashee claims in 1921. The adit and opencuts on the McIntyre were cleaned out. On the Morning Sun claim a crosscut adit was driven 12 metres. On the Monashee claim the old lower adit was reopened. In the 1920s, New Monashee Mines Ltd. acquired the Withrow, Field, Vernon and Riske claims but no work was reported.

In 1933, Monashee Mines Syndicate Ltd. acquired the Withrow, Vernon, Field and Riske Crown grants and the adjoining McPhail property. The old adits were reopened, a drift adit was extended 230 metres and two new drift adits were completed. A total of 1254 metres of drifting and raising was done by Vidette Gold before work ceased in 1935. In 1939, Monashee Development installed a 50 ton-per-day mill which began operation in October. The mill operated for 55 days before work ceased; all equipment was removed. In 1940, the property was leased to G.M.F. and F.H. Paterson, S. Flodstrom and William McLaren who mined remnants of ore by hand steel methods.

In 1983, reconnaissance geochemical sampling and geological mapping surveys were done on the Monashee and McPhail properties and the Moonbeam claims by I.M. Watson and Associates Ltd. for Nakusp Resources Ltd. In 1989, reconnaissance mapping and geochemical sampling was completed on the Monashee and McPhail properties, which were staked as the Kettle 2 and 1 claims. In 1992, Cameco Corp. conducted geochemical and geological surveys in the area.

The claims are underlain by Devonian to Triassic metavolcanics and metasediments of the Harper Ranch Group, a short distance north of the contact with Jurassic granitic rocks of the Nelson Intrusions. These consist of interdigitating lenses of fine grained, altered volcanics and metasediments. The volcanics are possibly meta-andesites and the metasediments consist of argillites and marbles. The sediments strike west to northwest and dip steeply to moderately north. On the northern part of the property the Monashee Pass marble showing (082LSE049) forms 50 metre cliffs along the crest of the ridge overlooking Highway 6.

The intrusive rocks consist of leucocratic medium to coarse-grained hornblende biotite granodiorite. The generally fractured granitic rocks are locally heavily sheared and altered. The degree of kaolinization and chloritization is relative to the degree of deformation. The contact with the metamorphic rocks trends northwest.

Disseminated pyrite is common along or near the contact with the granites and is associated with fracturing in silicified and rusty metavolcanics and sediments. Pyritized rusty skarn zones, lensoid and less than 10 metres in extent, occur at volcanic/marble contacts exposed in roadside cuts.

Three adits have been driven on the Withrow claim. The upper adit has been driven on a quartz vein which pinches and swells from 30 to 150 centimetres in width, with the widest sections near faults. The vein, traced on surface for 760 metres, strikes northeast and dips 34 degrees southeast. Mineralization consists of pyrite, galena, chalcopyrite, sphalerite, magnetite and native gold. A faulted outcrop containing a 1.8 metre wide quartz vein has been explored by adit but was not described. Just north of the vein outcrop, another adit has been driven on a quartz vein. This vein is 2 to 10 centimetres wide, strikes southeast and may be a stringer in the hangingwall of the main vein. The veins occur in argillites and metamorphosed volcanics. The workings at 1265 metres elevation were sampled in 1983. A selected grab sample of quartz vein material containing disseminated pyrite, galena and chalcopyrite assayed 0.315 per cent copper, 0.71 per cent lead, 161.8 grams per tonne silver and 24.9 grams per tonne gold (Assessment Report 11789). Samples taken in 1989 from this same dump material assayed similar values (Assessment Report 19209). Samples of dump material from the other adits assayed insignificant values. Geochemical sampling indicated a gold anomaly in the area of the old dumps and workings on the Withrow claim.

On the Vernon claim, pyritic, rusty andesite sills occur in marble. Grab samples assayed low gold and silver values (Assessment Report 11789).

Adits on the Moonbeam 5 and 6 claims, about 425 metres south of

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

the Vernon claim, were driven on a strong northwest trending shear. The shear cuts highly silicified and carbonatized volcanics and contains irregular quartz veins and pods. These are weakly to moderately pyritized and contain rare chalcopyrite and galena. Chip and grab samples assayed up to 132 grams per tonne silver and 0.27 gram per tonne gold (Assessment Report 11789). Samples taken in 1989 assayed low values (Assessment Report 19209).

During 1939-1940, 2193 tonnes of ore were milled producing 11,415 grams of gold, 50,916 grams of silver, 706 kilograms of lead and 190 kilograms of zinc.

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543; 1893-1073; 1897-609; 1900-857,1128; 1901-1128,1155; 1902-188;
1903-178; 1904-228; 1905-193; 1907-128; 1909-278; 1913-171;
1914-359,511; 1915-252,446; 1916-263; 1921-191; 1933-155; 1934-D11;
1935-D13; 1939-37,42; 1940-23,71

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CJES Vol. 26, No. 2

GCNL #17, 1983
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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082LSE002

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5547747 EASTING: 398529

NAME(S): PARADISE, INTERNATIONAL, BELLVIEW, LAKEVIEW, GOLDEN MARTEN II, AU 2

REGIONS: British Columbia NTS MAP: 082L01W

COMMENTS: Approximate location of the No. 1 tunnel (Minister of Mines Annual

Gold

Epigenetic

Report 1930, page 263).

COMMODITIES: Silver

SIGNIFICANT: Unknown ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

Jurassic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u> Paleozoic-Mesozoic

Harper Ranch

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Nelson Intrusions

LITHOLOGY: Granite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Okanagan Highland

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

YEAR: 1930

CATEGORY: Assay/ar SAMPLE TYPE: Channel Assay/analysis

**GRADE** 

COMMODITY Silver

34.2800 Grams per tonne

COMMENTS: Channel sample across 80 centimetres of quartz in opencut. Nil gold.

REFERENCE: Minister of Mines Annual Report 1930, page 263.

**CAPSULE GEOLOGY** 

The Paradise showing is located 26 kilometres east of Edgewood, north of Inonoaklin Creek near Coates Creek. The Paradise is about

450 metres south of the Renown showing (082LSE004).

Three opencuts and 2 tunnels were reported in 1930. prospecting and geochemical sampling were conducted on the Au 1 and 2 claims, which were staked over the Paladora (082LSE008), Ballarat (082LSE024), Paradise and Renown showings. An unsuccessful attempt (082LSE024), Paradise and Renown showings. An unsuccessful attwas made to locate the old workings. In 1985, prospecting was conducted on the Golden Marten I and II claims, which were staked over the Paladora, Ballarat, Paradise and Renown showings.

The area is underlain by granitic rocks of the Jurassic Nelson Intrusions which intrude volcanic and sedimentary rocks of the

Devonian to Triassic Harper Ranch Group.

The No. 1 tunnel, at 1524 metres elevation, was driven on a 35 centimetre quartz vein in granite. A sample across 30 centimetres at the face assayed nil gold and silver (Minister of Mines Annual Report

1930, page 263). The 3 opencuts, just east of the No. 1 tunnel, expose this same vein. A channel sample across 80 centimetres of quartz assayed nil gold and 34.28 grams per tonne silver (Minister of Mines Annual

Report 1930, page 263).

The No. 2 tunnel is 183 metres east of the No. 1 tunnel at 1539 metres elevation. The 9-metre tunnel was driven northwest along a 1.2 to 1.5 metre wide quartz vein. A sample across 1.3 metres

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STATUS: Prospect

BC MAP:

LATITUDE: 50 04 24 N LONGITUDE: 118 25 05 W

ELEVATION: 1524 Metres LOCATION ACCURACY: Within 1 KM

**MINERALS** 

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

assayed nil gold and silver (Minister of Mines Annual Report 1930, page 263).

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CJES Vol. 26, No. 2

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE003

NATIONAL MINERAL INVENTORY:

NAME(S): BLUEBIRD

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L02W BC MAP:

UTM ZONE: 11 (NAD 83)

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LATITUDE: 50 11 36 N NORTHING: 5561913 EASTING: 362104

LONGITUDE: 118 55 55 W ELEVATION: 960 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of opencuts (Minister of Mines Annual Report

1949, page 137).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Harper Ranch STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Sediment/Sedimentary

Tuffaceous Mudstone

Sandstone Limestone Conglomerate Chert

HOSTROCK COMMENTS: Quartz veins occur in both granitic and sedimentary rocks. The Harper

Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Okanagan Highland TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1949 SAMPLE TYPE: Grab

**GRADE** COMMODITY

Silver 3.4300 Grams per tonne Gold 34.9000 Grams per tonne

COMMENTS: Sample of rusty quartz across 15 centimetres. REFERENCE: Minister of Mines Annual Report 1949, page 137.

**CAPSULE GEOLOGY** 

The Bluebird showing is located on the northeast side of Harris Creek about 5.6 kilometres southeast of its confluence with Bessette Creek and about 6.5 kilometres south of Lumby.

A series of shallow exploratory opencuts, probably from 1949,

expose small quartz veins.

The area is underlain by sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group which have been intruded by granitic rocks of the Jurassic Nelson Intrusions. The Harper Ranch Group comprises tuffaceous mudstone, chert, limestone, sandstone and conglomerate.

The veins occur in both sedimentary and plutonic rocks. Most of the veins are less than 15 centimetres wide but locally some are up to 60 centimetres wide. The veins, which contain wallrock inclusions, strike northeast and are vertically dipping. The wallrock is reportedly "much altered and decomposed".

A sample of rusty quartz across 15 centimetres assayed 34.97 grams per tonne gold and 3.43 grams per tonne silver (Minister of Mines Annual Report 1949, page 137). Other samples assayed trace to

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

 $14.06 \ \mathrm{grams} \ \mathrm{per} \ \mathrm{tonne} \ \mathrm{gold} \ (\mathrm{Minister} \ \mathrm{of} \ \mathrm{Mines} \ \mathrm{Annual} \ \mathrm{Report} \ 1949, \ \mathrm{page} \ 137).$ 

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GSC MAP 1059A; 7216G; 8502G
GSC MEM 296, p. 141
GSC OF 637(#308)
GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/07/06 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE003

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE004

NATIONAL MINERAL INVENTORY:

NAME(S): RENOWN, REPULSE, HOOD, BLUEBELL, BLUEBIRD, GOLDEN MARTEN II,

AU 1-2

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

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LATITUDE: 50 04 39 N

NORTHING: 5548210 EASTING: 398557

LONGITUDE: 118 25 04 W ELEVATION: 1760 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location (Minister of Mines Annual Report 1930, page 263).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic

DIMENSION: 131 x 1 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Vein strikes east, dips vertically, is 40 to 83 centimetres wide

and has been traced 131 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Granite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: OPENCUT REPORT ON: N

> CATEGORY: YEAR: 1930 Assay/analysis SAMPLE TYPE: Grab

COMMODITY **GRADE** 

48.0000 Grams per tonne Silver Gold 10.3000 Grams per tonne

COMMENTS: Sample from opencut across 40 centimetres. REFERENCE: Minister of Mines Annual Report 1930, page 263.

CAPSULE GEOLOGY

The Renown showing is located 26 kilometres east of Edgewood, north of Inonoaklin Creek near Coates Creek. The Renown is about

450 metres north of the Paradise showing (082LSE002).
Four opencuts were reported in 1930. In 1983, prospecting and geochemical sampling were conducted on the Au 1 and 2 claims, which were staked over the Paladora(082LSE008), Ballarat(082LSE024), Paradise and Renown showings. An unsuccessful attempt was made to locate the old workings. In 1985, prospecting was conducted on the locate the old workings. In 1985, prospecting was conducted on the Golden Marten I and II claims, which were staked over the Paladora, Ballarat, Paradise and Renown showings.

The area is underlain by granitic rocks of the Jurassic Nelson

Intrusions which intrude volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group.

A narrow east striking, vertically dipping quartz vein, 40 to 83 centimetres wide, has been traced for 131 metres. The vein, hosted in granite, contains pyrite and has been exposed by 4 opencuts. A sample from the No. 2 opencut across 40 centimetres assayed 10.3 grams  $\frac{1}{2}$ per tonne gold and 48 grams per tonne silver (Minister of Mines Annual Report 1930, page 263).

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1994/11/29 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LSE004

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE005

NATIONAL MINERAL INVENTORY:

NAME(S): <u>VAL</u>, VADLER, VIDLER, ARKOSE, VIDLER-ARKOSE

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082L02W

BC MAP:

LATITUDE: 50 11 55 N LONGITUDE: 118 53 34 W

ELEVATION: 1070 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Radioactive anomaly, base map (Assessment Report 6341).

COMMODITIES: Uranium 7inc

MINERALS
SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated

TYPE: D04 Basal U

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene

GROUP Kamloops

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5562428 EASTING: 364914

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LITHOLOGY: Conglomerate

Sandstone Tuffaceous Arkose

Rhyolite Tuff

HOSTROCK COMMENTS: Includes fragmental rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

### **CAPSULE GEOLOGY**

The Val deposit is located 8 kilometres southeast of Lumby and 27 kilometres southeast of Vernon.

The property was staked as the Val Claims in 1968 by Silver Standard Mines. They carried out detailed mapping, radiometric surveys and drilled 3 percussion holes totalling 274 metres. The claims were staked as the Arkose and Vidler claims in 1976. In 1976, Chatham Resources carried out soil sampling, scintillometer and induced polarization surveys and drilling. In 1977, 181 metres of rotary drilling was done by Kerr Addison Mines Ltd. In 1978, the property was optioned to Charter Oil Co. Ltd. who assigned their interest to Banqwest Resources Ltd. Soil sampling, a spectrometer survey, silt and water sampling and geological mapping were completed.

The area is underlain by Eocene volcanics and sediments of the Kamloops Group. Rocks include rhyolites, tuffs, fragmentals, sandstones and conglomerates. Radioactivity is associated with sediments along a north trending valley for about  $2.5\ \mathrm{kilometres}$ .

Uranium is found in a sequence of sandstone, conglomerate and tuffaceous arkose of Eocene age.

Drilling in the north part of the zone failed to intersect significant radioactivity. However, a nearby soil geochemical sample assayed 31 parts per million uranium. At the south end of the zone, radioactivity up to 21,000 counts per second registered on a TV-1A scintillometer (background is 55 counts per second) (Assessment Report 7276). Small amounts of sphalerite were intersected in the drillholes on the Arkose claims. Mapping and drilling in 1977 suggested that radioactivity was due to a high content of uranium in primary resistate minerals in the rhyolites and tuffs.

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EMPR ASS RPT \*6341, 6376, 6396, 6560, \*7276 EMPR EXPL 1976-53; 1977-74; 1978-88

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DATE CODED: 1985/07/24 DATE REVISED: 1987/03/31 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LSE005

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE006

NATIONAL MINERAL INVENTORY: 082L7 Au1

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UTM ZONE: 11 (NAD 83)

NORTHING: 5569867 EASTING: 361656

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NAME(S): LUMBY, LUMBY (CHAPUT), BS 2, B.S. 2, CHAPUT, CHAPUT MINE, LUM, P.S., B.S., M.M., QUIN, TEACHER, MINE, PLATEAU, SADDLE MOUNTAIN

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L07W

BC MAP:

LATITUDE: 50 15 53 N LONGITUDE: 118 56 28 W

ELEVATION: 722 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Plateau zone is 2.25 kilometres north-northeast of the community of

Lumby, east of Bessette Creek, 4.25 kilometres west of Rawlings

Lake (Assessment Report 14469).

Zinc

COMMODITIES: Mica Graphite Gold Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Tetrahedrite Graphite Galena Chalcopyrite Pyrrhotite Årgentite Mica Sericite

ASSOCIATED: Quartz ALTERATION: Graphite Muscovite Sericite Chlorite Clay Biotite

COMMENTS: Biotite hornfels.
ALTERATION TYPE: Argillic
MINERALIZATION AGE: Unknown **Propylitic** 

**DEPOSIT** CHARACTER: Vein Breccia Shear

CLASSIFICATION: Hydrothermal Mesothermal **Epigenetic** Industrial Min. TYPE: I05 SHAPE: Bladed Polymetallic veins Ag-Pb-Zn±Au 101 Au-quartz veins

MODIFIER: Fractured Sheared

DIMENSION: 150 x 46 COMMENTS: Plateau zone mineralization. Metres STRIKE/DIP: 110/40 TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Nicola

Jurassic **Nelson Intrusions** 

LITHOLOGY: Argillite

Lapilli Ash Tuff Feldspar Crystal Tuff

Phyllite Siltstone Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: PLATEAU REPORT ON: Y

> CATEGORY: Indicated YEAR: 1993

507920 Tonnes QUANTITY: **COMMODITY GRADE** 

4.5000 Grams per tonne

COMMENTS: Estimated reserves by Quinto Mining Corp at a 2 grams per tonne

cut-off.

REFERENCE: Information Circular 1994-1, page 15.

MINFILE NUMBER: 082LSE006

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: Inferred YEAR: 1996

QUANTITY: 27213000 Tonnes COMMODITY

GRADE 100.0000 Graphite Per cent

COMMENTS: Possible mineral resources from the 808 metre level down to the valley floor along the dipslope; grade of graphite is unknown. REFERENCE: George Cross News Letter No.44 (March 4), 1997.

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: Measured YEAR: 1996 QUANTITY: 340162 Tonnes

COMMODITY **GRADE** 

Per cent 100.0000 Graphite

COMMENTS: Mineral resources at the 808 metre level; grade of graphite is unknown.

REFERENCE: George Cross News Letter No.44 (March 4), 1997.

### **CAPSULE GEOLOGY**

The Lumby (Chaput) deposit is located immediately to the north of Lumby.

Mineralization was noted and prospected in the early 1900s by a local teacher (called the Teacher showing). Mineralized veins were exposed in the 1960s by a logging company (the Mine showing). In 1968, underground development began and a mill was constructed. 1971, Alberta Gypsum acquired the property and mill and undertook underground and surface exploration in an attempt to establish mineable reserves. Coast Interior Ventures acquired the property in 1974 and worked it sporadically until 1979. The mill was expanded to 150 tons capacity in 1980, but the plant was closed in 1981. In 1983, Quinto Mining Corporation purchased the property and increased the size. Geochemical and geophysical surveys were conducted and a trenching program exposed the Plateau seer zone which was sampled. In 1985, 10 reverse circulation holes were drilled and 13 holes were diamond drilled. In 1986, the Saddle Mountain portion of the property was mapped and geophysical surveys were conducted; 2700 metres of diamond drilling was completed on the Plateau shear zone. In 1987, 32 reverse circulation and 7 diamond drillholes were completed along with additional geophysical and geochemical surveys. An initial metallurgical test was completed. In 1988, a computer model was generated of the Plateau shear zone and 2 crosscuts and an exploratory drift were completed in the hangingwall. A preliminary feasibility study was conducted. In 1990, the Plateau shear zone workings were mapped and sampled. In 1992, the underground workings were re-sampled, assayed and mineralogical and metallurgical tests were done. In 1993, metallurgical testing was completed.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. At the Lumby occurrence, the rocks include argillite, siltstone, sericitic lapilli ash tuff, chloritic feldspar crystal tuff and minor phyllite. sequence is well-bedded, gently folded about a west-northwest trending antiformal axis and crosscut by minor high-angle normal faults. A small granodiorite stock of Jurassic age intrudes the package and biotite hornfels is weakly developed in the wallrocks. The Plateau shear zone is a major west trending fault which dips about 48 degrees to the south and transects the central part of the property. A narrow north trending shear is also evident containing barren to weakly pyritic bull quartz.

Mineralization is known in two areas, the Chaput mine and the

Plateau zone. Both Plateau shear zone. Both are spatially related to the same structure, the

The Chaput mine, at the western end of the Plateau shear zone, contains silver-lead-zinc mineralization associated with a system of quartz-sulphide veins arranged in a step-like pattern. The quartz veins occur in z-shaped dragfolds on the south limb of the west-northwest trending anticline. The veins are hosted in argillites that are bounded by felsic to intermediate lapilli and ash tuff. The veins, 0.3 to 1.5 metres wide, occur in a zone which strikes 110 to 120 degrees and dips south. The veins pinch and swell along strike and downdip. The best grades occur near the flat portions of the flexures. The sulphides are fine to medium grades. The sulphides are fine to medium grained and are intergrown with milky white and grey quartz. Sulphides comprise galena, sphalerite, pyrite, tetrahedrite, pyrrhotite, chalcopyrite and argentite. Chlorite, sericite and clay minerals are typical wallrock alteration minerals. Most mineralization in the

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

Chaput mine is reported to occur below 600 metres (ASL) elevation. A diamond-drill hole intersection across a 1.0 metre (true width) quartz vein assayed 2296.76 grams per tonne silver and 2.33 grams per tonne gold (George Cross Newsletter 15, 1987). Between 1968 and 1976, 1991 tonnes of ore was mined producing 1,697,290 grams of silver, 1214 grams of gold, 654 kilograms of copper, 72,217 kilograms of lead and 50,847 kilograms of zinc.

The Plateau shear zone is located 600 metres to the east above 700 metres (ASL) elevation and is apparently along strike with the Chaput mine. The Plateau shear zone is 5 to 31 metres in width, averaging 24 metres, and occurs in argillite on the footwall contact with felsic to intermediate lapilli and ash tuffs. The zone strikes 110 to 120 degrees, dips 40 to 80 degrees south and has been traced for about 1000 metres east-west.

The mineralization has been confirmed downdip in excess of 150 metres. The enclosed quartz veins are up to 5 metres in aggregate width. In most areas within the zone, quartz veins are intensely sheared and brecciated. Gold is associated with fine to coarse-grained disseminated to locally massive pyrite, minor pyrrhotite and chalcopyrite. Sphalerite and galena are generally rare, but carry sporadic silver values. In many parts of the zone the breccia matrix contains a significant amount of carbonaceous (graphitic) material, where many of the highest gold values have been reported. Two mineralized sub-zones (Hangingwall, Footwall) within the Plateau zone have been outlined.

Estimated reserves of the Plateau shear zone are 507,920 tonnes grading 4.5 grams per tonne gold (Information Circular 1994-1, page 15).

The deposit is currently receiving attention as a graphite/sericite/gold project by Quinto Mining Corporation. Four crosscuts have been completed across the mineralized zone which has widths up to 46 metres. The main drift, which follows the hangingwall, is now over 304 metres long, 3.6 metres wide and 3 metres high. In stope No. 3, a 22-metre high cave stope is being extracted over a 18-metre width in preparation for milling. Quinto bought a mechanical laboratory from Bacon Donaldson which is being reassembled in Lumby. A special flotation system was designed to handle the unique sericite/graphite/silica mineralization (George Cross Newsletter No.115 (June 15), 1994).

Metallurgical testing indicates that the graphite is too fine grained and too tightly bound to the muscovite to be a viable byproduct. The graphite occurs as ultra-fine grains interleaved in very fine grained muscovite/sericite. The graphite enables the muscovite/sericite to be readily floatable which may have value as a byproduct (Assessment Report 22837).

Metallurgical testing in 1993 concluded that 3 products could be extracted from the Plateau shear zone material. These are a very fine grained muscovite-graphite mix which has been termed "Schillerite No. 1", a pyrite-gold concentrate from which gold can be recovered and a very fine-grained muscovite product termed "Schillerite No. 2" (Assessment Report 23029). Unclassified reserves are 27 million tonnes of graphite (Information Circular 1994-19, page 16).

Quinto was reported to be actively sampling and evaluating the property in 1996. In May 2000, the company began processing of its graphite and sericite products.

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EMPR BC METAL MM00428
EMPR EXPL 1975-E53; 1978-E96; 1986-C97; *1987-B23-B27; 1996-A24
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257
EMPR GEM 1969-298,299; 1974-90
EMPR INF CIRC 1993-13, pp. 11,15; 1994-1, pp. 11,15; 1994-19, p. 17; 1995-1, p. 17; 1996-1, p. 20; 1997-1, p. 23
EMPR MAP 65 (1989)
EMPR MINING 1975-1980 Vol. I, pp. 40,61; 1981-1985
EMPR OF 1990-30; 1992-1; 1994-1
EMPR PF (*Property Summary Report, March 25, 1987 by R.E. Meyers, District Geologist (Kamloops))
EMPR RGS 082L, 1976; 32, 1991
EMR MP CORPFILE (Alberta Gypsum Ltd.)
GSC MAP 1059A; 7216G; 8502G
GSC MEM 296
GSC OF 637 (#285)
GSC SUM RPT 1898 (Map 604)
CANMET IR 72-5
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PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL #140, July 18, 1977; #72, #115, 1984; #1, #165, #177, #187, 1985; #33, #57, 1986; #3, #15, 1987; #152, #208, 1992; #82, #145, #149, #201, 1993; #115, #193, #201, 1994; #44(Mar.4), 1997; #91(May 11), 2000

IPDM November, 1985 N MINER Mar.10, 1986; Feb.1, 1988; Aug.17, 1992

WIN May, 1987

WWW http://www.quintomining.com; http://www.infomine.com/

DATE CODED: 1985/07/24 DATE REVISED: 1997/04/15

CODED BY: GSB REVISED BY: DEJ

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE007

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5545058 EASTING: 384889

REPORT: RGEN0100

202

 $\begin{array}{ll} \text{NAME(S): } & \underline{\textbf{BISSON LAKE}}, \text{ BISSON, LUCKY}, \\ \hline & \text{MOLLY, XL} \end{array}$ 

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02E

BC MAP:

LATITUDE: 50 02 48 N LONGITUDE: 118 36 28 W

ELEVATION: 1600 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Showing (EM anomaly) on the east side of Bisson Lake (Assessment

Report 1022)

COMMODITIES: Copper Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite

COMMENTS: Molybdenite and chalcopyrite are not specifically identified but are

inferred from the geophysical signature.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Jurassic Nelson Intrusions

LITHOLOGY: Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Bisson Lake showing is located  $40\ \mathrm{kilometres}$  southeast of Vernon, on the east side of Bisson Lake.

In 1967, geophysical surveys were completed on the Bisson Lake property. In 1971, a geophysical survey was conducted on the XL

The area is underlain by granitic rocks of the Jurassic Nelson

Intrusions.

The claims were originally staked when mineralization was encountered on a logging road. This mineralization is not located or described. The nature of this showing has been inferred from the geophysical response. The response indicates that copper and molybdenum comprise the original mineralization. The showing is noted on Geological Survey of Canada Open File 637 as a copper-molybdenum

showing of unknown type. No other information is available.

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EMPR AR 1967-222, 280 EMPR ASS RPT \*1022, 3114

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257
EMPR GEM \*1971-431

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 1059A; 7216G; 8501G

GSC MEM 296

GSC OF 637(#345)

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/13 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE007

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE008

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5548525

EASTING: 396655

REPORT: RGEN0100

203

NAME(S): PALADORA (L.2153), MEADOWVIEW (L.2152), SUMMERSET (L.2154), REWARD, CORNWALL, GOLDEN MARTEN 1,

AU 1-2

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Vernon

NTS MAP: 082L01W

UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 04 48 N LONGITUDE: 118 26 40 W ELEVATION: 1737 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of old workings (Minister of Mines Annual

Report 1927, page 232).

COMMODITIES: Gold 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Gold Galena Sphalerite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Paleozoic-Mesozoic Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Granite

Granodiorite Quartzite Basalt

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Okanagan Highland

INVENTORY

ORE ZONE: SHAFT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1927 SAMPLE TYPE: Grab

COMMODITY Silver GRADE 54.8000 Grams per tonne Gold 11.0000 Grams per tonne

COMMENTS: A sample, 1.8 metres wide, from the third shaft on the Paladora. REFERENCE: Minister of Mines Annual Report 1927, page 232.

CAPSULE GEOLOGY

The Paladora deposit is located 48 kilometres west of Edgewood near the headwaters of Fire Valley Creek. The Ballarat showing (082LSE024), the extension of the Paladora, is located about 150  $\,$ metres to the east.

Surface work and shafts are first reported on the claims in 1899. In 1900, 2 veins were stripped and 4 shafts, 6 to 8 metres deep, had been sunk. "Several hundred tons of ore" were treated containing \$15 to \$30 in gold and "several ounces" silver per ton. The claims were worked in 1902 and 1903. The Paladora (Lot 2153) and Meadowview (Lot 2152) claims were Crown granted in 1905. In 1916, assays of "\$30 gold per ton" were reported. Numerous opencuts, a shaft 8.5 metres deep, an opencut on the Meadowview close to the boundary line and 3 shafts, 6.1, 1.2 and 4.5 metres respectively, were reported on the Paladora. A crosscut tunnel was driven 15 metres below the upper working for 12 metres without the upper working for 12 metres without the palace with the palace was driven 15 metres below the upper working for 12 metres without

hitting the vein.
In 1983, prospecting and geochemical sampling were conducted on the Au 1 and 2 claims which were staked over the Paladora, Ballarat,

Paradise (082LSE002) and Renown (082LSE004) showings. An

MINFILE NUMBER: 082LSE008

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

unsuccessful attempt was made to locate the old workings. In 1985, prospecting was conducted on the Golden Marten I and II claims, which were staked over the Paladora, Ballarat, Paradise and Renown showings.

The area is underlain by granite and granodiorite of the Jurassic Nelson Intrusions. Quartzite and basalt of the Devonian to Triassic Harper Ranch Group is occasionally present.

Four parallel quartz veins have been traced for over 3.2

Four parallel quartz veins have been traced for over 3.2 kilometres. The veins average 90 centimetres in width with local swells up to 180 centimetres wide. The veins carry pyrite, small amounts of native gold, galena and sphalerite in a granitic host. The veins strike 082 degrees and dip 70 degrees north. Several opencuts and 3 shafts occur along 400 metres of outcrop exposing a quartz vein in granite. The vein has been faulted up the hill between the No. 2 and No. 4 shafts. By 1927, the shafts were already dilapidated and access limited.

A sample of sorted ore from the Meadowview shaft assayed 52.8 grams per tonne gold and 274 grams per tonne silver (Minister of Mines Annual Report 1927, page 232). A sample from a 2 metre wide vein in an opencut 21 metres east of this shaft assayed 4.8 grams per tonne gold and 34.28 grams per tonne silver (Minister of Mines Annual Report 1927, page 232). A sample 1.8 metres wide from the third shaft on the Paladora assayed 11 grams per tonne gold and 54.8 grams per tonne silver (Minister of Mines Annual Report 1927, page 232).

Production for 1935 to 1938 totalled 99 tonnes yielding 10,295 grams of silver and 2022 grams of gold.

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EMPR ASS RPT 12331, 14611

EMPR BC METAL MM01352

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR INDEX 3-208

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 1059A; 7216G; 8502G

GSC MEM 296, p. 148

GSC OF 637(#350); 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/11/25

CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE009

NATIONAL MINERAL INVENTORY: 082L2 Au2

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REPORT: RGEN0100

205

NAME(S): MCPHAIL, ROSSLAND (L.3766), MASCOT (L.3767), EVENING STAR (L.3768), KETTLE 1

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 06 36 N LONGITUDE: 118 30 40 W NORTHING: 5551954 EASTING: 391953

ELEVATION: 1333 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: The Fire Valley tunnel on the Rossland (Lot 3766) claim (Minister of

Mines Annual Report 1914, page 359 and Assessment Report 19209).

COMMODITIES: Gold Silver Lead Copper Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Galena Tetrahedrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: 105 Polym Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 76 x 2 COMMENTS: McPhail vein. Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Paleozoic-Mesozoic Harper Ranch Undefined Formation Jurassic Nelson Intrusions

LITHOLOGY: Limestone

Argillite Siltstone Quartzite

Tuffaceous Volcanic Granodiorite Quartz Diorite Lamprophyre Dike

Skarn

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1973

SAMPLE TYPE: Chip **GRADE** 

COMMODITY Silver 99.0000 Grams per tonne Gold 26.0000 Grams per tonne

COMMENTS: Across 91 centimetres of the Evening Star vein near the portal.

REFERENCE: Assessment Report 4771.

**CAPSULE GEOLOGY** 

The McPhail deposit is located 10.5 kilometres east-southeast of Vernon and adjoins the Monashee mine area (082LSE001).

In 1900, the property, comprising the Rossland, Mascot and In 1900, the property, comprising the Rossland, Mascot and Evening Star claims, was optioned by the Cherry Creek Gold Mining Co. Ltd. During 1902-1904, drifts, raises and adits were developed. The McPhail tunnel was 52 metres long with 2 raises of 7.6 and 15 metres respectively, the Evening Star was 70 metres long and an unnamed tunnel was about 91 metres long with a raise 23 to 30 metres long. In 1903, a 5-stamp mill operated for a short period. The company also held the Monashee property at this time so the source of the mill feed is questionable. A new crosscut was started on the Rossland in 1914. By 1915, all work was suspended. At this time the crosscut on the Rossland claim, which did not intersect the vein, was 240 metres long.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The Monashee Mines Syndicate Ltd. acquired the property in 1933. In

1989, a geochemical survey and rock sampling were completed.

The area is underlain by metamorphosed limestone and subordinate argillite, siltstone, quartzite and green tuffaceous volcanics of the Devonian to Triassic Harper Ranch Group. A lobe of granodiorite or quartz diorite of the Jurassic Nelson Intrusions extends onto the Evening Star No. 2 and No. 4 claims. A lamprophyre dike is present near the north boundary of the No. 4 claim. Some skarn is present near the granite contact with the limestones. Bedding indicates that the sedimentary sequence strikes northwest and dips northeast.

Seven quartz veins occur over a 122-metre interval, of these 4 veins are narrow and relatively unmineralized. Three subparallel veins, explored by tunnels, are 30 to 91 centimetres wide, trend 310 degrees and dip 40 to 70 degrees southwest. The veins are hosted in sediments and are mineralized with fine-grained pyrite, galena, sphalerite and minor chalcopyrite.

The McPhail vein can be traced on surface for 76 metres. The vein is 60 to 91 centimetres wide on surface but underground is up to 2.4 metres wide. Mineralization consists of scattered bunches of very fine grained pyrite, galena and sphalerite and minor chalcopyrite and tetrahedrite.

A second vein, 30 metres north of the McPhail vein, is explored by a 91-metre tunnel. The vein is at least 60 centimetres wide locally and is explored by a vertical raise about 24 metres from the face. In 1973, a sample across 60 centimetres of this vein, taken about 9 metres from the portal, assayed 4.46 grams per tonne gold and 27 grams per tonne silver (Assessment Report 4771). Selected samples

have higher grades.
On the Evening Star claim, which adjoins the Rossland claim on the northwest, the 70-metre adit was driven on a quartz vein which strikes southwest and dips near vertical. The vein averages 60 centimetres in width and is mineralized with pyrite, galena and chalcopyrite. A chip sample taken in 1973 across 91 centimetres near the portal assayed 26 grams per tonne gold and 99 grams per tonne silver (Assessment Report 4771).

Reconnaissance soil sampling in 1973 indicated the possibility of silver-bearing veins near the north boundary of the claims which may represent extensions of the veins explored by the adits.

### **BIBLIOGRAPHY**

```
EMPR AR 1902-188; 1903-178; 1904-228; 1905-193; 1909-278; 1913-179; *1914-359; 1915-252; 1921-191,196; 1933-155; 1934-D32; 1935-D15
EMPR ASS RPT *4771, 11789, *19209

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR GEM 1973-99
EMPR OF 1990-30; 1991-18; 1994-8
EMPR PF (Sketch of McPhail mine, c. 1930)
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 1059A; 7216G; 8501G
GSC MEM 296
GSC OF 637 (#326)
GSC P 91-2, pp. 115-135
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DATE CODED: 1985/07/24 DATE REVISED: 1994/07/06 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ

MINFILE NUMBER: 082LSE009

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE010

NATIONAL MINERAL INVENTORY: 082L1 Au1

PAGE:

REPORT: RGEN0100

207

NAME(S): **ST.PAUL**, TOUGHNUT (L.4189), ZILPAH (L.4188), SHEPPARD, SNOW, SNOWSHOE, PIONEER, IRON HORSE, YEOWARD,

YEOWARD 9-10, YEOWARD 6-7, MONASHEE GROUP

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L01W BC MAP: UTM ZONE: 11 (NAD 83)

50 08 52 N LATITUDE: NORTHING: 5556074 LONGITUDE: 118 27 16 W ELEVATION: 1432 Metres EASTING: 396086

LOCATION ACCURACY: Within 500M

COMMENTS: Location of St. Paul workings on the Toughnut claim (Property File -

Report on the St. Paul Property, 1974).

COMMODITIES: Silver Zinc Gold Lead Antimony

Copper

**MINERALS** 

SIGNIFICANT: Arsenopyrite Jamesonite Stibnite Pyrite Tetrahedrite Sphalerite Chalcopyrite Galena Freibergite Pyrrhotite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated Massive

Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation Triassic-Jurassic Nicola Undefined Formation

Jurassic **Nelson Intrusions** 

LITHOLOGY: Argillite Quartzite

Slate Limestone Diorite Sill Diorite

Feldspar Porphyry Dike Dacite Porphyry Greenstone Andesite Tuff

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland TERRANE: Quesnel

INVENTORY

ORE ZONE: LENS REPORT ON: N

> YEAR: 1974 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 1371.0000 Grams per tonne Gold 6.5000 Grams per tonne 4.3900 Lead Per cent Antimony 3.8000 Per cent Zinc 0.0300 Per cent

COMMENTS: A 1-metre sample across one of the massive sulphide lenses in a quartz

REFERENCE: Property File - Report on the St. Paul Property, 1974.

CAPSULE GEOLOGY

The St. Paul mine is located on the steep north face of Monashee Mountain, 60 kilometres east-southeast of Vernon and about 800 metres

northwest of the Morgan (082LSE022) deposit.

MINFILE NUMBER: 082LSE010

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

Development work began on the Toughnut claim in 1913. In 1914, a tramline was constructed and a mill was installed on the Sheppard claim. The mill operated for short periods in 1914 and 1915, milling 200 tonnes. Four claims, the Black Bess, Minerva, Zilpah and Toughnut (Lots 4186 to 4189), were Crown granted in 1915. Development work, mainly on the Toughnut claim during the period 1914-1916, included 2 adits, 6.1 metres and 106.7 metres in length. In 1927, St. Paul Mines Ltd. acquired the 4 Crown grants and 3

In 1927, St. Paul Mines Ltd. acquired the 4 Crown grants and 3 claims (which included the Morgan (082LSE022)). Intermittent development work continued into 1933. The workings in 1930 included 5 adits from 10.7 to 106.7 metres in length, 2 winzes and a number of trenches. The company reportedly carried out some work in 1949.

In 1962, a new adit begun in 1961 was extended to a total length of 61 metres. A shipment of 7.3 tonnes was reported in 1966. The property in 1971 included the 4 Crown grants and the Snow, Snowshoe and SKB claims. Work done during the period 1971-1973 included trenching and stripping. Some crude ore was shipped in 1971 and 1973 and 4.5 tonnes of concentrate were shipped in 1973. In 1973, Coast Interior Ventures Ltd. leased the properties and in 1974 carried out extensive road improvements, reopening and deepening of old trenches, opening and draining adits 4 and 5 at the St. Paul workings and a metallurgical study on a bulk sample from the St. Paul workings.

In 1982, Brican Resources conducted geochemical surveys and magnetometer survey on the St. Paul and Morgan deposits. In 1983, Brican Resources Ltd. conducted a geochemical survey and geological mapping on the two deposits. In 1990, Commonwealth Gold conducted a geochemical survey over this area. In 1992, Cameco Corp. conducted geochemical and geological surveys in this area.

geochemical and geological surveys in this area.

The area is underlain by sedimentary rocks and greenish volcanics of the Devonian to Triassic Harper Ranch Group and the Upper Triassic to Lower Jurassic Nicola Group. These are intruded by a Jurassic diorite sill of the Nelson Intrusions near the St. Paul workings. The sediments consist of black slate and argillite with lesser grey to black limestone, intermediate volcanic tuffs and quartzite. Minor greenstone or andesite tuff occurs near the St. Paul workings. The volcanics and sediments generally strike east and dip south. The intrusion is medium grained, dark grey and carries disseminated pyrite, locally in heavy concentrations. The diorite exhibits chlorite and carbonate alteration and has hornfelsed the surrounding rocks.

Mineralization at the St. Paul workings occurs as scattered to sub-massive sulphides in quartz veins within or adjacent to the diorite sill. Varying amounts of disseminated sulphides also occur in the diorite body and in certain of the surrounding hostrocks. There are 2 large quartz veins (61 to 182 centimetres wide), 10 to 15 narrower ones (1 to 15 centimetres wide) and one mineralized "silicified zone". Most of the veins strike northwest and dip moderately to shallowly southwest.

Mineralization in the large quartz veins consists of stringers, bunches and massive to sub-massive lenses of arsenopyrite with occasional massive lenses of jamesonite and stibnite. Minor amounts of the antimony minerals are found as small stringers and disseminated grains. Minor amounts of pyrite, tetrahedrite, sphalerite and chalcopyrite sometimes accompany the arsenopyrite. High silver values indicate the presence of some other sulphosalt, possibly freibergite. At the face of the No. 3 adit, the vein was 91 centimetres to 1.2 metres wide and composed of heavily mineralized diorite. The vein contains about 0.5 to 60 centimetres of nearly solid sulphides, principally a mixture of arsenical iron with streaks and small kidneys of antimony sulphides, mostly jamesonite.

The narrow quartz veins are mineralized with smaller quantities of the above minerals usually as small stringers or disseminated grains.

Other small quartz veins with northeast strikes and southeast dips may represent faulted segments of one vein. These veins are mainly quartz containing sulphides as disseminations or as streaks, bunches or small kidneys of nearly solid mineral. The sulphides are principally arsenopyrite, antimony sulphides, pyrite and pyrrhotite. Very small amounts of galena, sphalerite and copper pyrites are present and native silver occurs in microscopic specks.

A diffuse "silicified zone" occurs adjacent to the footwall or

A diffuse "silicified zone" occurs adjacent to the footwall or northern contact of the diorite sill. The zone is about 1.2 to 1.5 metres wide and contains scattered to sub-massive pyrite and arsenopyrite. The zone is exposed in a small creek above the portal of adit 4. A representative grab sample of this material assayed 66 grams per tonne silver and 5 grams per tonne gold (Property File - Report on the St. Paul Property, 1974).

The diorite sill commonly contains disseminated pyrite and arsenopyrite and locally these minerals may constitute 5 to 10 per

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

cent of the intrusive rock. Disseminated pyrite and arsenopyrite were also noted in blue-grey limestone and in a feldspar porphyry dike (dacite porphyry) adjacent to the south contact of the diorite body.

body.

A 1-metre chip sample from adit 1 across one of the massive sulphide lenses in a quartz vein assayed 1371 grams per tonne silver, 6.5 grams per tonne gold, 4.39 per cent lead, 0.03 per cent zinc and 3.8 per cent antimony (Property File - Report on the St. Paul Property, 1974). A grab sample, taken from a 1.2 metre quartz vein carrying scattered arsenopyrite, jamesonite and pyrite 12 metres from the portal of adit 1, assayed 381 grams per tonne silver and 3 grams per tonne gold (Property File - Report on the St. Paul Property, 1974).

Recorded production for the period 1914-1973 totals 392 tonnes producing 5630 grams of gold, 112,406 grams of silver, 3720 kilograms of lead and 1258 kilograms of zinc. These figures include production from the Morgan deposit.

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EMPR ASS RPT 10967, 12050, 21592, 22575, 22827, 23110

EMPR BC METAL MM00442

EMPR BULL 1, p. 79; 20, pp. 3-24

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR GEM 1971-431; 1972-79; 1973-98; 1974-88

EMPR INDEX 3-211

EMPR OF 1991-18; 1994-8

EMPR PF (Plan of St. Paul (lower) workings, copy of 1952 map; \*Report on the St. Paul Property, Coast Interior Ventures, 1974)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 1059A; 7216G; 8502G

GSC MEM 296, p. 147

GSC OF 637(#331); 658

GSC P 91-2, pp. 115-135

GSC SUM RPT 1930A, p. 116

CJES Vol. 26, No. 2

GCNL #17, 1983

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/11/16 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE010

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REPORT: RGEN0100

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE011

NAME(S): SILVER BELL (L.4329), SILVER HORDE (L.4328), SILVER MOON, KP 4, STULT, JOE CHAMBERLAIN,

MONA 2

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Vernon

NTS MAP: 082L01W

BC MAP:

LATITUDE: 50 12 04 N LONGITUDE: 118 25 39 W ELEVATION: 1524 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The common boundary of Lot 4329 and Lot 4328 (Assessment Report

16935).

COMMODITIES: Silver Gold Lead Copper 7inc

**MINERALS** 

SIGNIFICANT: Silver Chalcopyrite Tetrahedrite **Bornite** Pyrite Galena

ASSOCIATED: Quartz

ALTERATION: Azurite
ALTERATION TYPE: Oxidation Malachite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 105 DIMENSION: 150 Polymetallic veins Ag-Pb-Zn±Au x 4 Metres

STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Quartz veins are reportedly up to 4.5 metres wide and up to 150 metres

in length.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Argillite

Phyllite Shale Siltstone Limestone Basalt Tuff Porphyry Sill Dacite

**GEOLOGICAL SETTING** 

INVENTORY

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Okanagan Highland

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1994

SAMPLE TYPE: Grab

**COMMODITY GRADE** 297.6000 Silver Grams per tonne Gold 34.0000 Grams per tonne

REFERENCE: Assessment Report 23401.

**CAPSULE GEOLOGY** 

The Silver Bell deposit is located on the north side of Monashee

Creek, about 61 kilometres east of Vernon.

The deposit was discovered in 1903 by S. Hill and J. Chamberlain of Revelstoke and they completed trenching and about 24 metres of drift adit. The ground was restaked in 1914 by W.J. Bell and associates as the Silver Bell, Silver Horde and Silver Moon claims. The adit was extended to 43 metres. Several surface crosscuts and stripping along veins, for 122 metres length, were completed, primarily on the Silver Horde claim. The property was acquired by Cheyenne Mines Ltd. in 1977 and 14 tonnes of ore was shipped in 1978. In 1987, Azimuth Geological Inc. staked the Crown grants as the KP

MINFILE NUMBER: 082LSE011

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5561967

EASTING: 398125

NATIONAL MINERAL INVENTORY: 082L1 Au2

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

claims and conducted a geochemical and prospecting program. In 1994, a geochemical program was conducted on the Mona claims.

The area is underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise shale, siltstone, argillite, limestone, basalt and tuff.

Quartz veins up to 4.5 metres wide and up to about 150 metres in length are traced by workings on these 2 Crown grants. The veins appear to conform to the strike and dip of the host argillite and trend to the northwest with an approximate dip of 45 degrees northeast. The veins appear to be associated with quartz eye porphyry sills of possible dacitic composition.

One vein is several centimetres to 1.8 metres wide and carries lead, silver and gold values. The pay streak is up to 30 centimetres wide and samples have assayed as high as 20,568 grams per tonne silver and 69 grams per tonne gold (Minister of Mines Annual Report 1914, page 360). Native silver was found in the pay streak.

In 1994, the Silver Bell veins were described as irregular and

In 1994, the Silver Bell veins were described as irregular and discontinuous phyllite hosted bull white quartz veins, ranging from 5 centimetres to 1.5 metres in width. Mineralization consists of up to 10 per cent sulphides comprising pyrite, chalcopyrite, galena, bornite and tetrahedrite and malachite and azurite staining. A grab sample taken in assayed 297.6 grams per tonne silver and 34.0 grams per tonne gold (Assessment Report 23401).

In 1978, 14 tonnes of ore produced 311 grams of gold, 43,171 grams of silver, 700 kilograms of lead and 252 kilograms of zinc.

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EMPR RGS 082L, 1976; 32, 1991

EMR CORPFILE (Templar Mining Corp., Statement of Material Facts 6/84)

GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637(#319); 658

GSC OF 637(#319); 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/11/21 REVISED BY: DEJ FIELD CHECK: N

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE012

NATIONAL MINERAL INVENTORY: 082L8 Zn1

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5591973 **EASTING: 425416** 

REPORT: RGEN0100

212

NAME(S): BIG LEDGE, MONARCH, ADVENTURER (L.1067), BL, SUNSHINE (L.2477), SKYLINE

STATUS: Developed Prospect Underground MINING DIVISION: Slocan

REGIONS: British Columbia NTS MAP: 082L08E

BC MAP: LATITUDE: 50 28 30 N LONGITUDE: 118 03 04 W

ELEVATION: 1700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of mineralized horizon on the north-central B.L. #27

(Old Bonanza) claim (Assessment Report 12).

COMMODITIES: Zinc Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Sphalerite Pyrite Galena Chalcopyrite

Marcasite ALTERATION: Sericite ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Layered Disseminated

CLASSIFICATION: Sedimentary TYPE: S01 Broke Exhalative

Broken Hill-type Pb-Zn-Ag±Cu F14 Sedimentary exhalative Zn-Pb-Ag

E13 Irish-type carbonate-hosted Zn-Pb COMMENTS: The deposit strikes 240 degrees.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Proterozoic-Paleoz.

Monashee Complex Kootenay Assemblage

LITHOLOGY: Graphitic Schist

Quartzitic/Quartzose Schist Calcareous Quartzite Calc-silicate Gneiss Siliceous Marble Amphibolite Granite Pegmatite

HOSTROCK COMMENTS: The rocks belong to the Thor-Odin gneiss dome.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee Kootenay

INVENTORY

ORE ZONE: BIG LEDGE REPORT ON: Y

> CATEGORY: YFAR: 1982 Indicated

QUANTITY: 6500000 Tonnes COMMODITY **GRADE** 

Lead 3.0000 Per cent 3.0000 Per cent

COMMENTS: Grade less than 6 per cent combined lead-zinc.

REFERENCE: CIM Bulletin Vol. 75, No. 840, page 119.

CAPSULE GEOLOGY

The Big Ledge deposit is located 60 kilometres south of Revelstoke and approximately 8 kilometres west of Upper Arrow Lake

between North Fork Creek and Ledge Creek.

The deposit was originally staked as a gossan in 1892. Subsequent staking occurred in two main groups, the Monarch and Adventurer. By 1925, 210 metres of underground work in 4 adits had been completed on the Bonanza, Sunshine (Lot 2477), Skyline and Adventurer (Lot 1067) claims. In 1927, 16 holes were drilled on the property. Between 1947 and 1953, Consolidated Mining and Smelting company of Canada Ltd. drilled 6100 metres on the property. In 1960, the ground was restaked as the BL group (Lots 16071-16114) From 1964 to 1966, approximately 3960 metres of drilling, geological

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

mapping and geochemical and magnetometer surveys were carried out.

The area is underlain by rocks of the Thor-Odin gneiss dome of the Proterozoic Monashee Complex and metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. The Thor-Odin is one of a series of gneiss domes spaced approximately 80 kilometres apart along the eastern edge of the Shuswap Complex. A central core zone in the dome consists of gneissic and migmatitic rocks. This zone is surrounded by a heterogeneous assemblage of metasedimentary rocks of the Mantling zone and Fringe zone, the latter containing abundant pegmatite and lineated quartz monzonite. The Supracrustal zone, consisting of quartzite, marble, phyllite, schist and metavolcanic rocks, forms a cover to the gneisses.

The Big Ledge deposit is located south of the Core zone in an east-west trending succession of metasedimentary rocks of the Mantling zone. The rusty weathering succession consists of a heterogeneous mixture of schist and gneiss, calcareous quartzite, calcsilicate gneiss, marble and amphibolite. The structure is dominated by a series of east-west trending, open to tight folds. These are inclined to the south, overturned to the north and plunge variably to the east and west. The mineralized horizon is in the core of a fold which is a tight antiform, inclined to the south and overturned to the north.

Showings of pyrrhotite, pyrite, sphalerite, galena, chalcopyrite and marcasite occur along a layer known as the Ledge for a distance of over 10 kilometres. The Ledge consists of fine grained, dark graphitic-sericitic schist, dark quartz-rich schist, calcsilicate gneiss and minor siliceous marble layers. Pyrite and pyrrhotite are disseminated throughout these units resulting in a characteristic rusty weathering. Drilling indicates that there are at least four massive sulphide layers within the Ledge. It is not known if these are individual layers or fold repetitions of one or more layers. The massive sulphide layers consist of medium to coarse-grained pyrrhotite or pyrite with varying amounts of dark sphalerite. Quartz-eyes are common in the massive sulphide layers and sphalerite is commonly aligned parallel to layering in the adjacent schists.

The Ledge averages 30 metres in thickness and is conformable to bedding. Pyrrhotite is the most abundant sulphide and pyrite, usually in nodular masses, is locally abundant. Sphalerite is erratically distributed with the pyrrhotite. Galena is occasionally present in minor amounts along with the other sulphides but the only notable concentrations are small occurrences in calcareous beds adjacent to the main mineralized sections. In general, the sulphides are coarsely crystallized; a small amount of the ore minerals are intergrown with pyrrhotite. Iron sulphides are usually accompanied by scattered graphite flakes.

A zone of heavier mineralization occurs in the upper portion of the rock series. This zone ranges from 61 centimetres to over 6 metres in thickness (old drill records indicate up to 18 metres). This zone is conformable with bedding but the sulphides are erratically distributed in irregular massive and disseminated bodies. There is a large amount of granitic and pegmatitic material in this zone. Sphalerite appears to be most abundant in disseminated sulphide sections but small irregular high-grade patches occur with both the massive and disseminated sulphides.

Indicated ore reserves are 6.5 million tonnes grading less than 6 per cent combined lead and zinc (CIM Bulletin Vol. 75, No. 840, page 119).

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EMPR ASS RPT *12, 66

EMPR FIELDWORK 1975, pp. 12-17; 1977, pp. 80-82; 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR GEOLOGY *1975, p. G12

EMPR MAP 16

EMPR OF 1990-30

EMPR PF (Photos, 1976; 32, 1991

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GSC OF 637; 658
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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1994/12/30

CODED BY: GSB REVISED BY: DEJ

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSE013

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5565321 EASTING: 389528

NAME(S): CHERRY CREEK PLACER, NORTH FORK, MONASHEE CREEK

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L02E BC MAP:

LATITUDE: 50 13 47 N LONGITUDE: 118 32 56 W ELEVATION: 667 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of the junction of Cherry Creek and Monashee Creek where most of the production came from (Bulletin 28, pages 62-67).

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

PAGE:

REPORT: RGEN0100

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LITHOLOGY: Gravel

Slate Shale Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

### **CAPSULE GEOLOGY**

The Cherry Creek Placer deposit is located at the confluence of Cherry Creek and Monashee Creek (082LSE059). Placer activity centred on the north fork or main stream of Cherry Creek 25 to 32 kilometres east of Lumby. Monashee Creek (082LSE059) was previously known as the south fork of Cherry Creek and because of this there is some confusion between the placer activity on the two creeks.

Placer deposits on this creek have been worked since 1876 when it was discovered, until 1945 when the last production was recorded. The deposits have been worked by hand, by an elaborate system of flumes, by hydraulics and later by gasoline shovels. Benches 30 metr above the creek were mined in 1876. From 1890 to 1896, 15 people were working on the creek taking out about \$2.00 per day. There was little or no activity between 1905 and 1922, but activity was renewed in 1925.

The valleys were filled with gravel after the retreat of ice and remnants of these gravels have been left in benches up to  $91.4\,$ metres high, by the recent stream. Lenticular, irregular gravel beds occur in 12 to 15 metres of a sandy unit. This unit rests on waterworn black slates and shales cut by quartz veins. Boulder clay overlies the sandy unit. Placer gold occurs in the preglacial gravels over several kilometres.

The gold has a low average fineness of 700. Nuggets up to 264 grams (8.5 ounces) have been found. The gold is of 2 types: light, flat, scaly particles, and less commonly, coarse gold pieces.

Most production came from the confluence of Cherry Creek and Monashee Creek, upstream to 5.6 kilometres above the confluence. Production totals 155,158 grams of gold (4989 ounces) (Bulletin 28, page 63).

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MINFILE NUMBER: 082LSE013

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

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GSC MAP 1059A; 7216G; 8501G

GSC MEM 296, p. 138

GSC OF 637(#314)

GSC P 91-2, pp. 115-135

Placer Dome File

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MINFILE NUMBER: 082LSE013

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE014

NAME(S): FRED, FRED 1-16

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L01E BC MAP:

LATITUDE: 50 03 40 N

LONGITUDE: 118 14 19 W ELEVATION: 1425 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop on the road from which the sample with the highest assay value

Silver

Concordant

was taken (Assessment Report 3074).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite ALTERATION: Limonite Hydrozincite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Sedimentary

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

Unknown Unnamed/Unknown Group Cretaceous

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Whatshan Intrusion

NATIONAL MINERAL INVENTORY:

LITHOLOGY: Micaceous Quartzite

Quartz Feldspar Biotite Schist

Amphibolite

Feldspar Biotite Hornblende Gneiss Pegmatitic Quartzofeldspathic Sill

Granodiorite Quartz Diorite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Okanagan Highland

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1971

CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** 

1.7000

0.6800

Grams per tonne Per cent

COMMENTS: Highest assay values. Also 0.17 gram per tonne gold.

REFERENCE: Assessment Report 3074.

Silver

7inc

**CAPSULE GEOLOGY** 

The Fred showing is located on the north side of the Barnes Creek road, about 10 kilometres northwest of Needles ferry on Upper Arrow Lake.

The Fred claims were staked in 1970. In 1971, soil sampling and geological mapping were conducted in 1971 by Versatile Mining Services for United Bata Resources.

The area is underlain by metasediments of unknown affinity intruded by granitic rocks of the Cretaceous Whatshan batholith. metasediments comprise micaceous quartzite, quartz-feldspar-biotite schist, minor amphibolite and quartz-feldspar-biotite-hornblende gneiss intruded locally by pegmatitic quartzofeldspathic sills. Granitic rocks comprise granodiorite to quartz diorite and are generally porphyritic.

Sphalerite occurs in outcrops along the Barnes Creek road in heavily limonite-stained metasediments containing significant amounts of pyrrhotite. The sphalerite occurs as discrete grains and as small stringers which parallel schistosity. Hydrozincite coatings have been noted on the exterior of sphalerite-bearing rocks. Geochemistry

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PAGE:

MINING DIVISION: Slocan

UTM ZONE: 11 (NAD 83)

NORTHING: 5546160

EASTING: 411346

217 REPORT: RGEN0100

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### **CAPSULE GEOLOGY**

indicates a series of lens-like anomalous zones which parallel the general trend of the schistosity in bedrock. The schistosity in the metasediments trends east and dip steeply north and south.

The highest assay from a grab sample was 0.68 per cent zinc, 1.7 grams per tonne silver and 0.17 gram per tonne gold (Assessment 2074)

Report 3074).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/12/19 REVISED BY: DEJ FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE015

NATIONAL MINERAL INVENTORY:

Rare Farths

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5567563 EASTING: 370930

REPORT: RGEN0100

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NAME(S): **BEARCUB**, LUMBY FELDSPAR, LUMBY (BEARCUB), SPAR, LUMBY, WALT 4

STATUS: Developed Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02W

BC MAP:

LATITUDE: LONGITUDE: 118 48 37 W

ELEVATION: 854 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Blasted pit, 11.25 kilometres east of the community of Lumby, 225

metres north of Blue Springs Creek, 2.5 kilometres northwest of Camels Hump (Exploration in British Columbia 1987, page B118).

COMMODITIES: Feldspar Uranium Thorium

**MINERALS** 

SIGNIFICANT: Feldspar Monazite

COMMENTS: Also uranium secondary minerals.

ASSOCIATED: Quartz Muscovite **Biotite** Garnet Tourmaline

COMMENTS: Rare tourmaline.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Pegmatite Industrial Min.

TYPE: O04 Feldspar-quartz pegmatite O02 Rare element pegmatite - NYF family

DIMENSION: 1500 x 750 Metres COMMENTS: Principal pegmatite body outcrop area. STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Proterozoic-Paleoz. Kootenay Assemblage Unknown Unnamed/Unknown Informal

LITHOLOGY: Pegmatite

Pegmatite Dike Quartz Mica Schist Quartz Diorite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: BEARCUB REPORT ON: Y

> CATEGORY: QUANTITY: Indicated YEAR: 1991 100000000 Tonnes

**COMMODITY GRADE** 

Feldspar 50.0000 Per cent

COMMENTS: Probable reserves; material also grades 18 per cent SiO2 and 3 per

cent mica.

REFERENCE: Open File 1992-1.

**CAPSULE GEOLOGY** 

The Lumby deposit is located about 13 kilometres east of Lumby,

north of Blue Springs Creek.

In 1970-1971, two trenches, two pits, a radiometric survey and a ultraviolet lamp survey were completed on the property by Able Explorations Ltd. In 1987, geological mapping and sampling were completed by Brenda Mines Ltd. In 1988, rock sampling and

geochemical surveys were done and in 1989, geological and geochemical surveys, diamond drilling, roadwork and metallurgical testing were

completed.

A 1.35 by 2.65 kilometre stock of pegmatite intrudes quartz mica schist of the Proterozoic-Paleozoic Kootenay Assemblage and is bounded on the south and west by Eocene Kamloops Group volcanic rocks. Four distinct rock types are recognized in the area and these are: pegmatite, quartz diorite, quartz mica schist and limestone.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

The principal pegmatite body of the deposit outcrops in an area 0.75  $\,$  by 1.5 kilometres. The pegmatite crops out as topographic highs, appears fresh, massive and most often white, but ranges from cream through yellow to reddish orange where stained by iron leached from mica. The pegmatite is frequently in contact with quartz diorite. Typically, the pegmatite consists of 70 to 75 per cent feldspar, 20 to 25 per cent quartz (locally up to 50 per cent), 5 to 7 per cent muscovite and 5 to 15 per cent mafic minerals, commonly biotite, garnet and rarely tourmaline. Locally, regular intergrowths of quartz and feldspar give the pegmatite a graphic texture. Books of biotite and/or muscovite, up to 5 centimetres across, occur sporadically in clusters throughout the pegmatite or as individual flakes. The two micas form 5 per cent of total volume, but are seldom found together. Red to purple garnet (1 to 3 millimetres) occurs in pockets and constitutes 5 to 15 per cent of the rock. one location only, small (1 to 2 millimetre) crystals of tourmaline were identified. In thin section, iron oxides occur in biotite and along fractures between grains of feldspar and quartz. Feldspar content varies inversely with quartz in distinct zones. A feldspar-rich core zone is flanked by feldspar-poor zones rich in quartz.

Radioactive mineralization occurs in small irregular patches within a large mass of pegmatite enclosed in metamorphic rocks. The local radioactive areas contain erratically dispersed monazite in irregular lensoid masses of fine grained dark, glassy, smoky quartz. A 5.5 metre long trench in pegmatite exposed a bright yellowish brown glassy mineral, identified as monazite, erratically dispersed along a 0.6 metre wide lens of fine grained, granular, dark, smoky quartz. A chip sample along the length of the trench gave the following chemical compositions: 0.069 per cent thorium oxide, 0.037 per cent uranium, 0.25 per cent yttrium, 0.03 per cent ytterbium, 0.044 per cent lanthanum, 0.07 per cent cerium, 0.046 per cent neodymium, 0.027 per cent erbium, 0.021 per cent gadolinium and 0.003 per cent thulium (Geology, Exploration and Mining in British Columbia 1971). Grab samples analyzed up to 0.20 per cent uranium (Assessment Report 3434). The ratio of thorium to uranium ranged from 6:1 to 12:1. Fluorescent secondary uranium minerals occur

Massive, grey, fine to medium-grained, weakly foliated quartz diorite crops out as a prominent topographic high immediately north of the pegmatite stock. The diorite is cut by thin pegmatite dikes and contains small (less than 1 millimetre) red garnets. South of the intrusion, xenoliths of quartz diorite are incorporated in the pegmatite. These are often tens of metres across and similar in appearance to the more massive diorite to the north, but appear partially digested.

within the radioactive zones.

Large (tens of metres across) xenoliths of fine-grained, medium to dark grey quartz mica schist are incorporated in the main pegmatite stock. The schist is foliated, several metres thick, locally intruded by lenses of quartz or pegmatite and often sheared. Small (1 to 3 millimetres) red to purple garnets are common.

Medium to dark grey, fine-grained crystalline limestone occurs as inclusions in the pegmatite stock. The limestone is also found within beds of quartz mica schist and contains stringers of quartz or pegmatite. Small scale isoclinal folds and boudinage structures are prominent features in the limestone.

One representative sample of the pegmatite was sent to CANMET for processing. The non-magnetic feldspar concentrate was analyzed with the following results:

Major	Feldspar
Oxides	Concentrate
	(weight %)
Fe20	0.06
MnO	<0.01
Cr203	<0.01
TiO2	<0.01
Ca0	0.25
Na20	2.60
K20	12.9
P205	0.02
SiO2	62.2
A1203	17.5
MgO	<0.05
LOI	0.19

Low iron content and acceptable potassium and alumina content indicate that the Lumby pegmatite has good potential to produce a

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

high-quality potash feldspar with liberation of 20 mesh (Exploration in British Columbia 1987).

Indicated (probable) reserves are 100 million tonnes of material grading 50 per cent feldspar, 18 per cent SiO2 and 3 per cent mica (Open File 1992-1).

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EMPR GEM \*1971-431,432

EMPR MAP 22; 65 (1989)

EMPR OF 1990-32; 1991-10; 1992-1; 1992-9

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GSC MAP 1059A

GSC MEM 296

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Chevron File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1990/04/25 REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE016

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

222

NAME(S): **DONA**, DONA 1-11, DONNA, DNA, IRENE

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L01W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 07 57 N LONGITUDE: 118 24 27 W NORTHING: 5554311 EASTING: 399408

ELEVATION: 1585 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Donna 3 claim (Assessment Report 22931).

COMMODITIES: Silver Gold I ead 7inc Copper

Shear

Antimony

**MINERALS** 

SIGNIFICANT: Arsenopyrite Pyrite Chalcopyrite Stibnite Galena Sphalerite Tennantite

Tetrahedrite ASSOCIATED: Quartz

ALTERATION: Hematite Silica Ankerite

Silicific'n Carbonate Propylitic

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal Podiform

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation Jurassic Nelson Intrusions

LITHOLOGY: Diorite

Siliceous Phyllite Felsic Volcanic Argillite Quartzite Tuff Quartz Diorite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Kootenay

INVENTORY

REPORT ON: N ORE ZONE: TRENCH

> CATEGORY: Assa SAMPLE TYPE: Chip YEAR: 1990 Assay/analysis

**GRADE** COMMODITY

Silver 207.8000 Grams per tonne Gold 0.5110 Grams per tonne Copper 0.0160 Per cent Lead 0.1350 Per cent

Zinc 0.0680 Per cent COMMENTS: Chip sample, across 2 metres, from Trench 6 on the Donna claims.

REFERENCE: Assessment Report 22931.

**CAPSULE GEOLOGY** 

The Dona showing is located 4.8 kilometres west-northwest of Keefer Lake at the headwaters of Kettle River, 63 kilometres

southeast of Vernon.

In 1973, the Dona 1-11 claims were staked and geochemical and VLF surveys were completed. In 1974, trenching and percussion drilling were undertaken. In 1982, the Irene and Dona claims were staked. In 1984, trenching was done and in 1988 geochemical surveys and geological mapping were completed. In 1992, claims were staked and soil sampling, trenching, bedrock sampling and geological mapping were completed. In 1993, geophysical surveys were completed in the area.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The area is underlain by a metamorphosed poly-deformed sequence of metasediments and tuffaceous rocks of the Devonian to Triassic Harper Ranch Group. These predominantly comprise varieties of black, intensely cleaved argillite and dark grey to grey siliceous phyllite and intermixed felsic volcanics. These are intruded by small stocks and plugs of diorite and quartz diorite of the Jurassic Nelson Intrusions.

The diorite is the main host of the mineralization and shallow dipping shears control gold distribution. Boudinaged quartz veins commonly fill the shear zones and contain pods and irregular masses of arsenopyrite, pyrite, stibnite, galena and minor chalcopyrite, tetrahedrite-tennantite and possibly sphalerite. The mineralized pods and masses vary from a few millimetres to a maximum of about 10 centimetres thick and do not exceed a few metres in length. Adjacent to the shears are irregularly distributed zones of silicification which contain up to about 2 per cent pyrite. Quartz veins generally have hematite-rich selvages. Hematite also occurs as fracture fillings. The diorite host is commonly weakly propylitized and, near shears, is pyritic. Strong silicification and ankerite(?) alteration of diorite and adjacent argillaceous sedimentary rocks has been noted in outcrop.

In 1974, Sample P3 assayed 43.9 grams per tonne silver and 1.4 grams per tonne gold (Assessment Report 5220). Trenching and bedrock sampling yielded low values, generally less than 0.5 gram per tonne gold (Assessment Report 22931). A chip sample across 2 metres from Trench 6 on the Donna claims assayed 0.016 per cent copper, 0.135 per cent lead, 0.068 per cent zinc, 207.8 grams per tonne silver and 0.511 gram per tonne gold (Sample 35781, Assessment Report 22931).

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EMPR GEM 1973-97; 1974-81

EMPR OF 1991-18; 1994-8

EMPR PF (Keefer Resources Prospectus, 1988; Dona Property description, 1974)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637(#333); 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

Chevron File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/03/21 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE016

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE017 NATIONAL MINERAL INVENTORY: 082L2 Au3

NAME(S): TOP, TOP 1-2, GOLD 1-20, BOTTOM

STATUS: Prospect Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02E

BC MAP:

NORTHING: 5547775 EASTING: 389343

LATITUDE: 50 04 19 N LONGITUDE: 118 32 47 W ELEVATION: 1257 Metres LOCATION ACCUMENCY: Within 500M

COMMENTS: Location of 1990 decline (Assessment Report 21656).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Quartz

ASSOCIATED: Carbonate
ALTERATION: Clay
ALTERATION TYPE: Argillic
MINERALIZATION AGE: Unknown

Chlorite Carbonate

Carbonate

**DEPOSIT** 

CHARACTER: Shear Breccia Vein CLASSIFICATION: Hydrothermal Epithermal **Epigenetic** 

TYPE: I01 Au-q DIMENSION: 170 x 40 Au-quartz veins Metres STRIKE/DIP: TREND/PLUNGE: x 10

COMMENTS: Shear zone.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Nelson Intrusions Jurassic

LITHOLOGY: Granodiorite

Lamprophyre Dike Andesite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YFAR: 1988 Assav/analysis

> CATEGORY: Assay/and SAMPLE TYPE: Drill Core

**GRADE COMMODITY** 

15.0000 Grams per tonne Cold

COMMENTS: Sample of sheared and altered dike, over 14 metres. REFERENCE: Assessment Report 18426.

CAPSULE GEOLOGY

The Top showing is located 55 kilometres southeast of Vernon,

south of Monashee Pass and adjacent to McIntyre Lake.

The showings were discovered in 1969 and limited surface work was completed. In 1973-1974, geological mapping, trenching and 4 drillholes were completed by New Cinch Uranium Ltd. on the Gold claims. In 1981, Brican Resources Ltd. conducted geological, geophysical and geochemical surveys and trenching. A magnetometer survey was completed in 1982. Drilling was conducted by Brican Resources in 1983. In 1984, the property was optioned by Kerr Addison Mines Ltd. who completed 11 diamond drillholes. In 1986, Brican Resources conducted surface exploration. In 1988, El Paraiso Resources Ltd. conducted geological mapping, rock and soil sampling, VLF-EM and IP surveys and 13 short drillholes. In 1990, soil sampling, mapping and a 3 by 3 metre decline 126.5 metres long was

excavated. The area is underlain by massive granodiorite of the Jurassic Nelson Intrusions intruded by a variety of volcanic feeder dikes. Mineralization occurs in north trending, west-dipping shear zones that cut granitic rocks and in sheared and altered dikes.

The granodiorite is medium-grained and fresh except in shear zones, where there is strong to intense argillic alteration. Where

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PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

shearing is most intense the alteration becomes whitish, pyritic, clay fault gouge. The granodiorite exhibits moderate to strong clay alteration and occasionally carbonate replacement near the margins of the dikes. The typically porphyritic dikes are generally very fine grained, dark grey to black in colour and locally contain up to 1 per cent disseminated pyrite. The dikes range in composition between lamprophyre and andesite. Interstitial carbonate replacement and small (1-5 millimetres) quartz, carbonate and quartz-carbonate stringers are common. The intensity of the carbonate replacement and number of carbonate stringers increases near dike margins and where the dikes occur within the shear zone. This appears to correspond to an increase in gold values. Clay and chlorite alteration is common and where present it gives the rock a greenish color.

The main shear zone is 10 metres wide at the base of the decline, strikes 010 to 015 degrees and dips 65 degrees northwest. The zone consists of intensely sheared and brecciated granodiorite and variable amounts of dike rock. The zone has been traced for 170 metres and is 30 centimetres to 10 metres wide. The zone has probably been offset by east-west faults. Gold and silver mineralization is associated with pyrite, arsenopyrite and quartz-carbonate veinlets. The best mineralization intersected in drilling was in a highly altered dike swarm.

Two holes in 1984 intersected a 15 metre zone of intense epithermal alteration and mineralization which assayed between 3.4 and 6.8 grams per tonne gold (Assessment Report 12749). Surface exploration discovered what appears to be the faulted extension, about 122 metres to the west. In 1988 drilling, the highest values came from a sample of sheared and altered dike swarm which assayed 15 grams per tonne gold over 14 metres (DDH 88-30, Assessment Report 18426). The dike was variably pyritic and cut by thin irregular quartz-carbonate veinlets.

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 1992, pp. 255-257

EMPR GEM 1973-98; 1974-88
EMPR OF 1991-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
EMR CORPFILE (New Cinch Uranium Ltd., Brican Resources Ltd.)
GSC MAP 7216G; 8501G
GSC MEM 296
GSC OF 637(#347)
GSC P 91-2, pp. 115-135
GCNL \*#160,#242, 1983; #6, 1984
IPDM Jan/Feb 1984
NAGMIN Jan. 1984
N MINER Dec.15, 1983

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/12/13 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE017

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE018

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5584687 EASTING: 386929

REPORT: RGEN0100

226

NAME(S): **A 4**, CUZIN, A 1-27, NEWF 1-13

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L07E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 24 12 N LONGITUDE: 118 35 28 W ELEVATION: 1100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing at the old logging camp on the A 4 claim (Assessment Report

4609).

COMMODITIES: Copper 7inc Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite

ALTERATION: Hydrozincite
ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Concordant Massive

CLASSIFICATION: Sedimentary

TYPE: E04 Sediment-hosted Cu

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Kootenay Assemblage

LITHOLOGY: Biotite Schist

Quartz Biotite Schist **Biotite Gneiss** Calc Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1973 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver Grams per tonne 5.5000 Copper 0.1700 Per cent Per cent 0.0100

COMMENTS: Sample from the camp showing. REFERENCE: Assessment Report 4609.

7inc

**CAPSULE GEOLOGY** 

The A 4 showing is located about 80 kilometres east-northeast of

Vernon, 4 kilometres west of Sugar lake.

The A claims were staked in 1972 and the Newf claims were staked in 1973. In 1973, geological and geochemical surveys were completed. In 1977, the claims were staked as the Cuzin claims by Brican Resources and optioned to Rio Tinto. Geological mapping, geophysical

and geochemical surveys, trenching and drilling were completed.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. These comprise biotite schist, quartz-Paleozoic Kootenay Assemblage. These comprise biotite schist, qubiotite schist, calc-sericite schist and biotite gneiss, striking

northwest and dipping gently to moderately northeast.

An extensive rusty, fine-grained biotite schist contains traces of pyrrhotite, pyrite and chalcopyrite. At the camp showing on the A4 claim, this unit contains lenses of massive pyrrhotite with appreciable chalcopyrite and some hydrozincite stain. Trenching in 1977 exposed graphitic and pyrrhotite-bearing sediments but drilling failed to encounter any mineralization of significance. It is believed that massive sulphides found in float on this property came from elsewhere

A sample from the camp showing assayed 0.17 per cent copper,

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

 $0.01 \ \mathrm{per} \ \mathrm{cent} \ \mathrm{zinc} \ \mathrm{and} \ 5.5 \ \mathrm{grams} \ \mathrm{per} \ \mathrm{tonne} \ \mathrm{silver} \ \mathrm{(Assessment Report)}$ 4609).

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DATE CODED: 1985/07/24 DATE REVISED: 1994/12/14 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE018

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE019

NATIONAL MINERAL INVENTORY:

NAME(S): **SH 1-15**, AS 1-20

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L07W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 19 00 N

NORTHING: 5575454 EASTING: 369203

LONGITUDE: 118 50 14 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description (Geology, Exploration and Mining 1972, page 80).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Uraninite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Pegmatite Epigenetic

TYPE: O02 Rare element pegmatite - NYF family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Nicola Undefined Formation

Nelson Intrusions Jurassic

LITHOLOGY: Pegmatite

Basic Lava Pyroclastic Argillite Limestone Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The SH 1-15 showing is located about 13 kilometres northeast of

Lumby.

There is no assessment work recorded but it is reported that trenching and stripping were done in 1972 on the AS claims and trenching was done in 1973 on the SH claims (Geology, Exploration and

Mining 1972, page 80 and 1973, page 101).

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group which have been intruded by granitic rocks of the Jurassic Nelson Intrusions. Group rocks comprise basic lavas, pyroclastics, argillites and

limestones.

Uranium mineralization, likely uraninite, is associated with pegmatite. No other information is available.

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EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR GEM \*1972-80; 1973-101

EMPR MAP 22

EMPR OF 1990-30; \*1990-32 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 1059A; 7216G; 8502G

GSC MEM 296

GSC OF 551; 637 (#286)

Placer Dome File

CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1994/12/14 REVISED BY: DEJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE020

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

229

 $\begin{array}{c} \text{NAME(S): } \quad \underline{\textbf{FOX}}, \, \text{VERNA} \,, \, \text{NUGGET}, \\ \overline{\text{KELLY}} \end{array}$ 

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L01W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 09 35 N LONGITUDE: 118 23 08 W ELEVATION: 1966 Metres LOCATION ACCURACY: Within 500M NORTHING: 5557309 EASTING: 401032

COMMENTS: Largest mineralized area on the Fox 16 claim (Assessment Report 5066)

COMMODITIES: Silver I ead Gold Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Galena Pyrrhotite Arsenopyrite

ASSOCIATED: Quartz
ALTERATION: Silica
ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal othermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au Metres TYPE: 105

DIMENSION: 1 STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Quartz vein at largest mineralized area is about 1.2 metres wide and

dips about 30 degrees to the southeast.

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Argillite

Limy Quartzitic/Quartzose Schist

Tuff Andesite Quartzite Limestone

Tuffaceous Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1978 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY

129.6000 Silver Grams per tonne Gold 0.2000 Grams per tonne I ead 3.3500 Per cent

COMMENTS: Highest assay; sample from the old shaft area.

REFERENCE: Assessment Report 7005.

**CAPSULE GEOLOGY** 

The Fox showing is located on the southwestern slope of Yeoward Mountain, about 90 kilometres east of Vernon.

The Fox showings were discovered and investigated in 1974 by David King. There is an older shaft on the northwest corner of the David King. There is an older shaft on the northwest corner of the claims from previous unrecorded work. Also in 1974, a geochemical program was completed by Nielsen Geophysics. In 1978, a geochemical sampling program was conducted on these showings now covered by the Verna and Nugget claims for Murray Ranking Developments Ltd. In 1983, a heavy mineral study was completed on the Kelly claims, just to the west of the Fox showings by C.F. Mineral Research Ltd. for David King. David King. In 1993, geophysical surveys were conducted in this area by James McLeod for Harold Arnold.

The area is underlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. In the area of the showings

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

these consist of argillite, tuff, andesite, quartzite and limestone. The largest mineralized area is on the Fox 16 claim. This area contains chalcopyrite and pyrite in argillites near the exposure of limy quartzose schists. A quartz vein, dipping 30 degrees southeast and about 1.2 metres wide, contains galena and pyrite.

Just to the west of this area, tuffaceous andesite containing

Just to the west of this area, tuffaceous andesite containing minor disseminated pyrite and chalcopyrite is exposed for 61 metres. About 100 metres to the west, an area with small quartz veins contains heavy arsenopyrite and pyrite in "tuff" rock.

The old shaft is about 150 metres to the north of the largest mineralized area on the Fox 16. The shaft is driven 3.6 metres in a large 1.2 to 2.4 metre wide quartz vein containing blobs of galena. Smaller cross veins carry pyrite, pyrrhotite, arsenopyrite, galena and chalcopyrite. The silicified hostrocks contain disseminated sulphides. A sample taken from this area in 1978 assayed 0.2 gram per tonne gold, 129.6 grams per tonne silver and 3.35 per cent lead (Assessment Report 7005).

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EMPR GEM 1974-87
EMPR OF 1991-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 7216G; 8491G
GSC MEM 296
GSC OF 637(#334); 658
GSC P 91-2, pp. 115-135
CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/11/18 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE020

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE021

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5554174

EASTING: 405224

IGNEOUS/METAMORPHIC/OTHER

Nelson Intrusions

REPORT: RGEN0100

231

NAME(S): KL, KL 1-12, SNOW 1-4, SNOW I-III, KEEFER, CRYSTAL 2,

KEEFER LAKE, KEE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L01W

BC MAP:

LATITUDE: 50 07 56 N

LONGITUDE: 118 19 34 W ELEVATION: 1448 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sampled quartz vein (Assessment Report 5279).

COMMODITIES: Gold

Silver

**MINERALS** 

SIGNIFICANT: Pyrite Gold Gypsum

ASSOCIATED: Quartz ALTERATION: Silica

ALTERATION TYPE: Silicific'n Serpentin'zn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I01 Au-qu

**Epigenetic** Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP

STRATIGRAPHIC AGE Triassic-Jurassic

Nicola

Jurassic

LITHOLOGY: Argillite

Hornfels Quartz Diorite Dike

Quartz Diorite Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

**FORMATION** 

Undefined Formation

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1973 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 0.7000 Grams per tonne Gold 0.2000 Grams per tonne

COMMENTS: Sample of silicified hornfels containing 30 per cent quartz veining

and 2 per cent disseminated pyrite. REFERENCE: Assessment Report 5279.

CAPSULE GEOLOGY

The KL showing is located 1.6 kilometres north of the east end

of Keefer Lake, about 72 kilometres east of Vernon.

The claims were staked in 1973 and a preliminary geochemical soil survey was conducted by Ducanex Resources Ltd. In 1982, the claims were staked as the Keefer claim and a geochemical soil survey was completed by John McGoran for F. Marehard. In 1983, Demus Petro Corp. through Burton Consulting conducted a geochemical and heavy sediment sampling program. In 1984, soil and sediment sampling was completed for Demus Petro Corp. by Andreas Schildhorn. In 1985, the area was restaked as the Snow 1-4 claims and again in 1988 as the Snow I-III claims. In 1988, Ocean Crystal Resources conducted geological mapping, soil geochemistry and lithogeochemistry on the Snow claims.

The area is underlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These have been intruded by quartz diorite dikes of the Jurassic Nelson Intrusions.

The claims are predominantly underlain by argillites. The

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

argillites are hornfelsed near the intrusive dikes. Silica and pyrite content increase and the rock is increasingly bleached near the dikes. Near fault zones the argillite contains up to 3 per cent gypsum on fracture surfaces and some serpentinization is evident. At the southeastern corner, the claims are underlain by andesite.

Small, narrow, irregular quartz veins containing pyrite and small amounts of gold are hosted in the argillites. A sample of silicified hornfels with 30 per cent quartz veining and 2 per cent disseminated pyrite assayed 0.2 gram per tonne gold and 0.7 gram per tonne silver (Assessment Report 5279).

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EMPR GEM 1973-98; 1974-86

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637(#336); 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

GCNL #16,#33, 1984

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/11/21 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE021

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE022

NATIONAL MINERAL INVENTORY: 082L1 Au1

PAGE:

NORTHING: 5555362 EASTING: 396191

REPORT: RGEN0100

233

NAME(S): MORGAN, MINERVA (L.4187), BLACK BESS (L.4186), SKB, MORNING, GUYSBOROUGH,

DAWN, YEOWARD, YEOWARD 6-7,

YEOWARD 9-10

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L01W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 08 29 N
LONGITUDE: 118 27 10 W
ELEVATION: 1737 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Morgan workings located on the Minerva claim (Lot 4187) (Property

File - Report on the St. Paul Property, 1974).

COMMODITIES: Gold 7inc Silver Lead

**MINERALS** 

SIGNIFICANT: Gold Tetrahedrite Pyrite Sphalerite Galena

Arsenopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Slate

Quartzite Calcareous Tuff

Tuff

Dacite Porphyry Dike

Dacite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1974 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 13,7000 Grams per tonne Gold 3.8000 Grams per tonne

COMMENTS: Sample from 15 centimetre wide vein.

REFERENCE: Property File - Report on the St. Paul Property, 1974.

CAPSULE GEOLOGY

The Morgan deposit is located on top of Monashee Mountain, 60kilometres east-southeast of Vernon and about 800 metres southeast of the St. Paul (082LSE010) deposit. A few hundred tons of high-grade

gold ore have been produced to date.

The showings were discovered in 1899 and staked as the Morgan, Guysborough, Dawn and Morning claims. The Morgan workings, on what later became the Minerva Crown grant (Lot 4187), were the initial development. Later development was mainly on the Toughnut claim (Lot 4189) (St. Paul deposit) about 800 metres northwest of the Morgan workings. The Cherry Creek Gold Mining Co. Ltd. optioned the Morgan group in 1902 and by 1904 had driven a 10.7-metre adit on the Morning claim. The workings by 1905 consisted of the 10.7 metre adit and two shafts, 24.4 and 10.7 metres deep. The 10.7-metre shaft and the drift from it provided most of the production. After 1907, the property was restaked as the Minerva group of 4 claims.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

The Black Bess, Minerva, Zilpah and Toughnut (Lots 4186 to 4189) were Crown granted in 1915. Development work, mainly on the Toughnut claim, during the period 1914-1916 consisted of 2 adits, 6.1 and 106.7 metres in length. In 1927, St. Paul Mines Ltd. acquired the 4 Crown grants and 3 claims. Intermittent development work continued into 1933. The workings in 1930 consisted of 5 adits from 10.7 to 106.7 metres in length, 2 winzes and a number of trenches. The company reportedly carried out some work in 1949. A new adit begun in 1961 was extended to a total length of 61 metres in 1962. A shipment of 7.3 tonnes was reported in 1966. The property in 1971 included the 4 Crown grants and the Snow, Snowshoe and SKB claims. Work during the period 1971-1973 included trenching and stripping. Some crude ore was shipped in 1971 and 1973, and 4.5 tonnes of concentrate were shipped in 1973. In 1973, Coast Interior Ventures Ltd. leased the properties and in 1974 carried out extensive road improvements, reopening and deepening of old trenches, opening and draining adits 4 and 5 at the St. Paul workings, and a metallurgical study on a bulk sample from the St. Paul workings. In 1982, Brican Resources conducted a soil survey, a geochemical survey and a magnetometer survey on the St. Paul and Minerva deposits. In 1983, Brican Resources Ltd. conducted a geochemical survey and geological mapping on the two deposits. In 1990, Commonwealth Gold conducted a geochemical survey over this area. In 1992, Cameco Corp. conducted geochemical and geological surveys in this area.

The area is underlain by sedimentary rocks and greenish volcanics of the Devonian to Triassic Harper Ranch Group intruded by several Jurassic or Cretaceous dikes or small hypabyssal bodies of dacite porphyry. The sediments, striking west to northwest and dipping moderately to steeply south, consist of quartzite, calcareous tuffs and slates.

The Morgan showings consist of 2 or more narrow, north striking quartz veins dipping about 45 degrees southwest and are 36 to 61 centimetres wide. At least one important cross vein is normal to the main veins. The veins occur in quartzite, calcareous tuff and slate which has been intruded by dacite porphyry dikes.

The vein quartz contains, in addition to occasional specks of native gold, disseminated pyrite with some arsenopyrite and locally small amounts of galena, sphalerite and tetrahedrite.

Old reports refer to a vein which is up to 3 metres wide but this vein was not found in 1974. Two veins were noted in the large cleared area south of the caved adit.

A shipment of 10 tonnes of selected material from the veins was sent to Trail in 1973. The shipment graded 44.9 grams per tonne gold, 48 grams per tonne silver, 0.6 per cent lead, 0.4 per cent zinc and 0.02 per cent copper (Property File - Report on the St. Paul Property, 1974). In the 1962 tunnel, one 15-centimetre vein was noted about 46 metres from the portal; one other vein is reported from this tunnel. A grab sample taken from the 15-centimetre vein assayed 3.8 grams per tonne gold and 13.7 grams per tonne silver (Property File - Report on the St. Paul Property, 1974).

assayed 3.8 grams per tonne gold and 13.7 grams per tonne silver (Property File - Report on the St. Paul Property, 1974).

Production for the period 1914-1973 totalled 392 tonnes producing 5630 grams of gold, 112,406 grams of silver, 3720 kilograms of lead and 1258 kilograms of zinc for the Morgan and St. Paul deposits.

Refer to the St. Paul deposit (082LSE010) for production figures.

### **BIBLIOGRAPHY**

```
EMPR AR 1900-857; 1902-189; 1904-228; 1905-193; 1907-128; 1913-
179; 1914-360,511; 1915-252,446,450; 1916-263; 1923-160; 1927-185,
213; 1928-220; 1930-208; 1931-116; 1932-144; 1933-197; 1934-D34;
1949-138; 1962-66

EMPR ASS RPT 12050, 21592, 22575, 22827, 23110

EMPR BULL 1, p. 79; 20, pp. 3-24

EMPR EXPL 1975-E50

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR GEM 1971-431; 1972-79; 1973-98; 1974-88

EMPR OF 1991-18; 1994-8

EMPR PF (Sketch of Morgan Mine, c. 1930; Map of the Upper Workings on the Minerva, c. 1952; See also 082LSE010)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G

GSC OF 637(#332); 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

GCNL #17,1983
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DATE CODED: 1985/07/24 DATE REVISED: 1994/11/24 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE023

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5595707 EASTING: 360320

REPORT: RGEN0100

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NAME(S): EF, EF4, PEACHER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L07W BC MAP:

LATITUDE: 50 29 48 N LONGITUDE: 118 58 10 W ELEVATION: 850 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of the diamond-drill hole on the EF4 claim

(Assessment Report 14573).

COMMODITIES: Silver Lead Copper

MINERALS
SIGNIFICANT: Galena MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Proterozoic-Paleoz. Kootenay Assemblage

LITHOLOGY: Mica Schist

Shale **Phyllite** Quartzite Limestone Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1985 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

COMMODITY **GRADE** 

182.0000 Silver Grams per tonne 2.9500 Per cent I ead

COMMENTS: Core sample of galena in altered mica schist and green shale.

REFERENCE: Assessment Report 14537.

**CAPSULE GEOLOGY** 

The EF showing is located southeast of Enderby, near Oleen

Creek.

In 1979, a geochemical survey was completed. In 1981-1982, a magnetometer survey was completed in the area. In 1985, one diamonddrill\_hole was completed.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. These comprise primarily phyllites,

quartzites, limestones and conglomerate.

Samples taken from a roadcut in the claim area contained

"interesting" amounts of copper.

The drillhole in 1985 intersected galena in altered mica schist and green shale. A sample from the core assayed 182 grams per tonne silver and 2.95 per cent lead (Assessment Report 14537).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7791, \*14573

EMPR EXPL 1979-104

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR GEM 1970-407

EMPR OF 1990-30

EMPR RGS 082L, 1976; 32, 19 GSC MAP 1059A; 7216G; 8502G

GSC MEM 296

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637(#244)

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/12/20 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE023

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE024

NATIONAL MINERAL INVENTORY:

NAME(S): BALLARAT, GOLDEN MARTEN I, AU 1-2

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L01W

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 04 48 N

NORTHING: 5548522 EASTING: 396774

PAGE:

REPORT: RGEN0100

237

LONGITUDE: 118 26 34 W ELEVATION: 1737 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located about 150 metres east of the Paladora (082LSE008) showings

(Minister of Mines Annual Report 1900, page 856).

COMMODITIES: Gold Silver Copper

MINERALS
SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

**Epigenetic** 

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **GROUP FORMATION** Paleozoic-Mesozoic Harper Ranch Undefined Formation

Nelson Intrusions Jurassic

LITHOLOGY: Granite

Granodiorite Quartzite Basalt

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

### CAPSULE GEOLOGY

The Ballarat showing is located 48 kilometres west of Edgewood near the headwaters of Fire Valley Creek. The Ballarat showing is the extension of the Paladora (082LSE008) showings, located about 150 metres to the west.

The first reference to this property is in 1900. By 1902, a metre tunnel had been driven on the vein. The Paladora (Lot 2153) and Meadowview (Lot 2152) claims were Crown granted in 1905. In 1983, prospecting and geochemical sampling were conducted on the Au 1 and 2 claims, which were staked over the Paladora, Ballarat, Paradise (082LSE002) and Renown (082LSE004) showings. An unsuccessful attempt was made to locate the old workings. In 1985, prospecting was conducted on the Golden Marten I and II, claims which were staked over the Paladora, Ballarat, Paradise and Renown showings.

The area is underlain by granite and granodiorite of the Jurassic Nelson Intrusions. Occasional quartzite and basalt of the Devonian to Triassic Harper Ranch Group occurs in the area.

A tunnel was driven for 9 metres exposing a well-defined vein 1.2 to 1.8 metres wide. Samples assayed about 45 grams per tonne gold (\$30 gold per ton) and "fair values in silver and copper" (Minister of Mines Annual Report 1902). This showing is noted on Geological Survey of Canada Open File 637 as a gold-silver-copper vein. No other information is available.

**BIBLIOGRAPHY** 

EMPR AR \*1900-856; \*1902-165 EMPR ASS RPT 12331, 14611 EMPR FIELDWORK 1987, pp. pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 1059A; 7216G; 8491G GSC MEM 296 GSC OF \*637(#349); 658 GSC P 91-2, pp. 115-135

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

BIBLIOGRAPHY

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/11/28 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE024

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE025

NATIONAL MINERAL INVENTORY:

NAME(S): **EXCELSIOR** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L02E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 12 30 N LONGITUDE: 118 31 52 W ELEVATION: 1000 Metres

NORTHING: 5562916 EASTING: 390747

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of claim (occurrence #318, Geological Survey of

Canada Open File 637).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP** Nicola

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sediment/Sedimentary

Volcanic

Argillite Pyroclastic Básic Lava Limestone

HOSTROCK COMMENTS: Hostrock is not known, assumed to be sedimentary.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1901 Assay/analysis

**COMMODITY GRADE** 

4113.6000 Grams per tonne Silver

COMMENTS: Assumed highest value from samples of a 20 centimetre wide vein. REFERENCE: Minister of Mines Annual Report 1901, page 1127.

CAPSULE GEOLOGY

The Excelsior showing is located on the right bank of Monashee Creek, previously known as the south fork of Cherry Creek, about 32 kilometres southeast of Lumby.

A tunnel was sunk 2.4 to 3 metres in 1901. No other reference

has been found for this showing.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise basic

lavas, pyroclastics, argillites and some limestones.

A quartz vein about 20 centimetres wide contains argentiferous galena. The vein was found on surface and the tunnel attempted to follow it. Samples reportedly assayed 4113.6 grams per tonne silver (Minister of Mines Annual Report 1901, page 1127).

No other information is available.

**BIBLIOGRAPHY** 

EMPR AR \*1901-1127 EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323;

1992, pp. 255-257 EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1059A; 7216G; 8501G GSC MEM 296 GSC OF 637 (#317,#318) GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/13 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE025

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE026

NATIONAL MINERAL INVENTORY:

NAME(S): **UNICORN** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L02E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

241

BC MAP:

NORTHING: 5566260 EASTING: 381779

TREND/PLUNGE:

LATITUDE: 50 14 12 N LONGITUDE: 118 39 28 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of the Unicorn claims (Property File - Letter

from Gordon White, Aug. 30, 1976).

COMMODITIES: Lead

SIGNIFICANT: Galena Marcasite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 15 x 3 Metres ST
COMMENTS: The vein is about 15 metres in length and 3 metres wide.

STRIKE/DIP:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Nicola **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Undefined Formation

LITHOLOGY: Calcareous Argillite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Quesnel

CAPSULE GEOLOGY

The Unicorn showing is located about 1.6 kilometres above Ferry

Creek, 27 kilometres east of Lumby.

The showing was examined by the District Geologist in 1976. No other work is recorded.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise graphite-bearing calcareous argillite and limestone.

The flat-lying, white, quartz vein is about 15 metres in length, about 3 metres in width and is up to 20 centimetres thick. Fine grained, cubic galena and marcasite occur in a dendritic fashion in the centre of the vein. The quartz appears to have grown from the wall of the vein; no cavities were seen. Sulphides compose about 8 per cent of the quartz vein material.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323;

1992, pp. 255-257 EMPR OF 1990-30; 1991-18; 1994-8

EMPR PF (\*Letter from Gordon P. White, District Geologist, Aug. 30,

1976)

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 1059A; 7216G; 8501G

GSC MEM 296 GSC OF 637(#311)

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/12/15 REVISED BY: DEJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE027

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5591372

EASTING: 428719

REPORT: RGEN0100

242

NAME(S): CASEY 7, CASEY 1-10, JUNE, LEDGE, B.L., LEDGE EXTENSION, ARROW, PING PONG

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Slocan

NTS MAP: 082L08E 082K05W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 28 12 N

LONGITUDE: 118 00 16 W

ELEVATION: 950 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of the mineralized horizon on Casey 7

(Assessement Report 6307).

COMMODITIES: Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite Galena Marcasite

Magnetite

ASSOCIATED: Graphite Diopside MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Stratabound

CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary Exhalative Syngenetic

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** 

Proterozoic

Proterozoic-Paleoz.

Monashee Complex

Kootenay Assemblage

LITHOLOGY: Quartzite

Biotite Sillimanite Schist

Marble Schist Gneiss

HOSTROCK COMMENTS: The rocks belong to the Thor-Odin gneiss dome.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee Kootenav

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YFAR: 1993 Assay/analysis

COMMODITY **GRADE** 

Silver 2.0000 Grams per tonne

0.9500 Per cent 7inc

COMMENTS: Average from drillhole samples, across 26.5 metres. REFERENCE: Assessment Report 23120.

CAPSULE GEOLOGY

The Casey 7 showing is located near the confluence of Trout Creek and Pingston Creek, about 55 kilometres south of Revelstoke adjacent to the Big Ledge deposit (082LSE012).

to the Big Ledge deposit (UOZLISEUIZ).

The property was staked as part of the Big Ledge property, by Cominco in 1947-51. Cominco worked the area, including drilling, until 1966. In 1967, drilling was done by Northwest Zinc. In 1976, reconnaissance mapping was completed by Metallgesellschaft. In reconnaissance mapping was completed by Metallgesellschaft. 1979, Esperanza conducted geological mapping and geochemical surveys. In 1981, geological, geochemical and geophysical surveys were completed by Esperanza. In 1988, Noranda conducted a soil survey and mapping. In 1992, Teck completed soil sampling, a magnetometer survey, geological mapping and trenching. In 1993, 9 diamond-drill holes tested the southwest portion of the Ledge horizon on this property.

The area is underlain by rocks of the Thor-Odin gneiss dome of the Proterozoic Monashee Complex and by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. The Thor-Odin dome is

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

one of a series of gneiss domes spaced approximately 80 kilometres apart. A central core zone in the dome consists of gneissic and migmatitic rocks. This zone is surrounded by a heterogeneous assemblage of metasedimentary rocks of the Mantling zone and Fringe zone, the latter containing abundant pegmatite and lineated quartz monzonite. The Supracrustal zone, consisting of quartzite, marble, phyllite, schist and metavolcanic rocks, forms a cover to the queisses.

The mineralized horizon (the Ledge horizon) occurs in an east-west trending succession of metasedimentary rocks of the Mantling zone. The rusty weathering succession consists of a heterogeneous mixture of schist and gneiss, calcareous quartzite, calcsilicate gneiss, marble and amphibolite. The Ledge consists of fine-grained, dark graphitic-sericitic schist, dark quartz-rich schist, calc-silicate gneiss and minor siliceous marble layers. Pyrite and pyrrhotite are disseminated throughout these units resulting in a characteristic rusty weathering.

The structure is dominated by a series of east-west trending, open to tight folds. These are inclined to the south, overturned to the north and plunge variably to the east and west.

Within the Ledge conformable mineralization consisting of pyrrhotite, pyrite and sphalerite with minor galena has been traced by outcrop and diamond drillholes for about 12-14 kilometres from Mt. Symons to the west shore of Arrow Lake. The western 8-10 kilometres comprise the Big Ledge property.

Drilling indicates that there are at least four massive sulphide layers within the Ledge. It is not known if these are individual layers or fold repetitions of one or more layers. The massive sulphide layers consist of medium to coarse grained pyrrhotite or pyrite with varying amounts of dark sphalerite. Quartz-eyes are common in the massive sulphide layers and sphalerite is commonly aligned parallel to layering in the adjacent schists. The footwall and hangingwall of the Ledge is comprised of alternating beds of quartz-mica schist and hornblende and feldspar-garnet gneisses interspersed with pure white quartzite and marble members. The marble members provide good stratigraphic markers.

Four types of stratabound massive sulphide mineralization have been observed: 1) fine-grained homogeneous massive sulphides comprising mainly pyrrhotite with rare magnetite, pyrite, sphalerite and galena; 2) pyrrhotite, pyrite, sphalerite and galena as matrix in quartz-rich calcareous gneisses; 3) pyrrhotite, pyrite, sphalerite and galena in marble with graphite and hematite; 4) marcasite, pyrite, sphalerite, galena in pegmatite vugs between quartz crystals.

The southerly dipping Ledge horizon has been mapped at 2 places on the Casey property, in the southwest near the confluence of Trout Creek and Pingston Creek and to the northeast on mapsheet 082K05W near the west shore of Upper Arrow Lake. The Ledge averages 40 metres in true thickness and mineralized sections can attain greater than 30 metres true thickness.

The average grade of mineralization in the old drillholes is 2 to 2.5 per cent zinc over 3 to 4.5 metres (Assessment Report 9651). In the southwest, on the Ledge 2 or Ping Pong 3 claim, a chip sample across 1 metre was taken from a zone of weathered sulphides containing pyrite, arsenopyrite and 5 per cent galena. This sample assayed 0.4 per cent lead and 1.6 per cent zinc (Assessment Report 19243). The best values from trenching came from Trench 5C on the southwest portion of the Ledge horizon on the Arrow 3 claim. This trench, in biotite-sillimanite schist, intersected the main Ledge horizon consisting of quartzites with disseminated graphite and sulphides and varying amounts of diopside. Mineralization is disseminated and occurs in veinlets of sphalerite throughout the horizon but 2 main intervals of massive to semi-massive sulphides were exposed in the trench. The highest values came from the A zone (southernmost) which assayed 2.7 grams per tonne silver, 0.1 per cent lead and 2.4 per cent zinc (Assessment Report 22664).

In 1993, drilling on this trench to test the downdip extension intersected similar mineralization and lithology over the 24 metre apparent thickness of the Ledge horizon. Samples averaged 0.95 per cent zinc, nil lead and 2.0 grams per tonne silver over 26.5 metres, including 30 centimetres of 13.4 per cent zinc and 3.6 grams per tonne silver and 1.5 metres of 3.04 per cent zinc, 0.16 per cent lead and 3.5 grams per tonne silver (Assessment Report 23120). Drilling tested only the southwest portion of the Ledge horizon on the Casey property.

### **BIBLIOGRAPHY**

EMPR ASS RPT 66, \*6307, \*9651, 19243, 22664, \*23120 EMPR EXPL 1976-E56 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1990-30 PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8492G GSC MEM 296 GSC OF 637; 658 GSC P 64-1; 65-1; 91-2, pp. 115-135 CJES Vol. 26, No. 2 Placer Dome File EMPR OF 2000-22

CODED BY: GSB REVISED BY: DEJ DATE CODED: 1985/07/24 DATE REVISED: 1994/12/30 FIELD CHECK: N

MINFILE NUMBER: 082LSE027

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE028

NATIONAL MINERAL INVENTORY:

NAME(S): SHUSWAP RIVER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L07E BC MAP:

NORTHING: 5575084 EASTING: 388069

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 19 02 N LONGITUDE: 118 34 20 W ELEVATION: 550 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #287 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

Recent

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Shuswap Highland

CAPSULE GEOLOGY

The Shuswap River placer deposit is located about 9.5 kilometres

south of the Sugar Lake dam.

In 1931, leases were acquired on the Shuswap River below Sugar

Lake and good values were reported.

The area is underlain by volcanic and sedimentary rocks of the

Upper Triassic to Lower Jurassic Nicola Group.

Placer activity, but no production, occurred on the Shuswap River. No other information is available.

**BIBLIOGRAPHY** 

EMPR AR \*1931-A116 EMPR BULL \*28, p. 60, 62 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30 EMPR PF (082LSE General - Geology Maps of the Trinity Lake Area, C.E.

Cairns, 1929-1930)

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8502G

GSC MEM 296

GSC OF 637 (#287)

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19

CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE029

NATIONAL MINERAL INVENTORY:

NAME(S): CHERRY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L08W BC MAP: LATITUDE: 50 16 45 N

NORTHING: 5570649 EASTING: 398093

PAGE:

REPORT: RGEN0100

246

LONGITUDE: 118 25 49 W ELEVATION: 850 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #288 (Geological Survey of Canada Open File 637).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Nicola

LITHOLOGY: Argillite Basic Lava

Pyroclastic Limestone

HOSTROCK COMMENTS: The hostrock is unknown.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Cherry occurrence is located south of Cherry Ridge about 76

kilometres east of Lumby.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise basic lavas and pyroclastics and sedimentary rocks including argillite and some limestones.

A copper occurrence of unknown type is noted on Geological Survey of Canada Open File 637 (#288). No other information is

available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8492G

GSC MEM 296

GSC OF \*637(#288); 658 GSC P 64-1; 65-1; 91-2, pp. 115-135

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ DATE REVISED: 1994/12/19 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE030

NATIONAL MINERAL INVENTORY:

NAME(S): **ZINCOP (BUSTER)** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L08W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 19 36 N LONGITUDE: 118 24 46 W ELEVATION: 1341 Metres

NORTHING: 5575906 EASTING: 399440

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #289 (Geological Survey of Canada Open File 637).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant CLASSIFICATION: Sedimentary TYPE: E04 Sedin

Sediment-hosted Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Undefined Formation Triassic-Jurassic Nicola

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

Basic Lava Pyroclastic Limestone

HOSTROCK COMMENTS: The hostrock is unknown.

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Okanagan Highland

**CAPSULE GEOLOGY** 

The Zincop (Buster) showing is located just south of Outlet

Creek about 80 kilometres northeast of Lumby.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise basic lavas and pyroclastics and sedimentary rocks including argillite and some limestones.

A concordant sedimentary-hosted copper occurrence is noted on Geological Survey of Canada Open File 637 (#289). No other

information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30 EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8492G

GSC MEM 296 GSC OF \*637(#289); 658

GSC P 64-1; 65-1; 91-2, pp. 115-135

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE031

NATIONAL MINERAL INVENTORY:

NAME(S): HARRIS CREEK, BESSETTE CREEK

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L02W BC MAP:

Open Pit MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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NORTHING: 5562477 EASTING: 358270 LATITUDE: 50 11 51 N LONGITUDE: 118 59 09 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of uppermost workings (Minister of Mines Annual

Report 1936, page D43)

COMMODITIES: Gold

MINERALS SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels Recent

LITHOLOGY: Gravel Sand

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

### CAPSULE GEOLOGY

The Harris Creek placer deposit is located about 6 kilometres southwest of Lumby. The Bluebird veins (082LSE003) are located

At the turn of the century, small quantities of gold were found in Harris Creek and its tributaries. In 1893, "a considerable amount (of) prospecting work" was done. In 1936, a former channel was discovered and worked. In 1936, leases covered the lower 13 kilometres of Harris Creek, the ground between Harris and Jones creeks and a considerable portion of the valley flat at the mouth of Harris Creek.

The bedrock in the area consists of sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group which have been intruded by granitic rocks of the Jurassic Nelson Intrusions. creek gravels are resistant, gneissic and granitic with a high proportion of lava. The valley likely contains at least 6 metres of gravels.

The original discovery is on the east side of the creek at the head of the small canyon and just below the mouth of Nicklen Creek (Bessette Creek). A recovery of 373 grams of gold is reported from amongst large boulders at and near irregular bedrock over a 4.6 by 15 metre area. A channel exposed in cross-section on the west side of Harris Creek produced 435 grams of gold. Gold was recovered in a pay streak 3 to 7.6 metres above the lowest gutter and to a lesser extent in the uppermost 4.6 metres of rather cleaner and smaller sized gravel.

Test-work was concentrated in the lower or northern section, but a small amount of testing has also been done for 8 kilometres up the creek. In the uppermost working on the southwest side, 7 kilometres from the mouth of Harris Creek, a drift has been driven 3 metres in weathered semi-angular gravels. Some gold is reported from 6 metres above the creek. Six or more pits were sunk at the mouth of Harris Creek on the valley flat, in some of which "interesting values" were reported.

About 1.2 kilometres downstream from this locality, similar gravels are present. The width and extent of this section of channel is not known and it is not known whether gold occurs in good

Other test holes are scattered along the margin of the creek bed,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

The gold is primarily light colored and occurs as fine rough particles, frequently with quartz adhering and considerable black sand. In one or two localities the gold is coarser, darker and well-worn. The short section of pay gravel contained gold of high purity and coarse nuggets (fineness 870 to 878).

Production for the period 1936 to 1945 totalled 14,150 grams of gold (Bulletin 28, page 63).

### **BIBLIOGRAPHY**

EMPR AR 1893-1076; 1901-1126; \*1936-D43; 1949-137

EMPR BULL \*28, pp. 62-63

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 
1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 
1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296, p. 138

GSC OF 637(#307,#306)

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/12/12 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE031

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE032

NATIONAL MINERAL INVENTORY:

NAME(S): BLUE GROUSE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L02E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

250

LATITUDE: 50 14 54 N LONGITUDE: 118 33 22 W ELEVATION: 1100 Metres

NORTHING: 5567401 EASTING: 389056

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #312 (Geological Survey of Canada Open File 637).

COMMODITIES: Zinc I ead

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Nicola

LITHOLOGY: Argillite Basic Lava

Pyroclastic Limestone

HOSTROCK COMMENTS: The hostrock is unknown.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Shuswap Highland

CAPSULE GEOLOGY

The Blue Grouse occurrence is located about 4.5 kilometres east

of Cherryville and north of Cherry Creek.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise basic lavas and pyroclastics and sedimentary rocks including argillite and some limestones.

A zinc-lead occurrence of unknown type is noted on Geological Survey of Canada Open File 637 (#312). No other information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257
EMPR OF 1990-30; 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8501G

GSC MEM 296 GSC OF \*637 (#312)

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSE033

NATIONAL MINERAL INVENTORY:

NAME(S): **HECKMAN CREEK**, FALL CREEK, CEDAR CREEK

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L02E

BC MAP: LATITUDE: 50 11 30 N LONGITUDE: 118 33 16 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence #313 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

**FORMATION** Recent

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

PAGE:

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MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5561098 EASTING: 389043

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Heckman Creek deposit is located on Heckman Creek about 6

kilometres southeast of Cherryville.

The bedrock in the area comprises sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group and the Upper Triassic to Lower Jurassic Nicola Group. Glacial and/or fluvial gravels contain placer gold.

Production totalling 124 grams of gold is reported for the period 1936-1940 (Bulletin 28, page 63). No other information is available.

**BIBLIOGRAPHY** 

EMPR AR 1877-404; 1901-1127

EMPR AR 1877-404; 1901-1127

EMPR BULL \*28, pp. 62-63

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR OF 1990-30; 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296

GSC MEM 296 GSC OF \*637 (#313)

GSC P 91-2, pp. 115-135

WWW http://www.infomine.com/

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 CODED BY: GSB REVISED BY: DEJ

MINFILE NUMBER: 082LSE033

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

I ead

MINFILE NUMBER: 082LSE034

NATIONAL MINERAL INVENTORY:

NAME(S): OLD JOE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L02E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 11 06 N

NORTHING: 5560347 EASTING: 389504

LONGITUDE: 118 32 52 W ELEVATION: 770 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #315 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Mudstone Chert

Limestone Sandstone Conglomerate

HOSTROCK COMMENTS: The hostrock is unknown. The Harper Ranch Group is Devonian to

Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

CAPSULE GEOLOGY

The Old Joe showing is located near the confluence of Half Mile Creek with Monashee Creek, about 8.5 kilometres southeast of

Cherryville.

The area is underlain by sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These comprise mudstone,

chert, limestone, sandstone and conglomerate.

A gold-silver-lead occurrence of unknown type is noted on Geological Survey of Canada Open File 637 (#315). No other

information is available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR OF 1990-30; 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296 GSC OF \*637(#315)

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ DATE REVISED: 1994/12/19 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE035

NATIONAL MINERAL INVENTORY:

NAME(S):  $\frac{\text{TRUE BLUE}}{\text{JJD 4, SILVER LEAD, ROYAL,}} \text{ CHERRY CREEK SILVER,}$ 

BATOUCHE, GRAND TIMES

STATUS: Past Producer REGIONS: British Columbia

Underground MINING DIVISION: Vernon

NTS MAP: 082L02E

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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BC MAP: LATITUDE: 50 12 37 N LONGITUDE: 118 33 04 W

NORTHING: 5563162 EASTING: 389324

ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Old workings located on the northwest portion of the JJD 4 claim

(Assessment Report 22223).

COMMODITIES: Silver 7inc Gold Lead

**MINERALS** 

Sphalerite Tetrahedrite Freibergite

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Shale

Slate Argillite Tuff Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1992 Assay/analysis

COMMODITY Silver **GRADE** 306.9000 0.6250 Grams per tonne Gold Grams per tonne 7inc 6.5200 Per cent

COMMENTS: A well-mineralized sample from the dump. REFERENCE: Assessment Report 22223.

CAPSULE GEOLOGY

The True Blue deposit is located on the west bank of Monashee Creek (previously known as the south fork of Cherry Creek) about 30 kilometres east of Lumby.

The small silver lode was discovered in 1863 and a small amount of ore was rawhided to the coast for processing in 1864 by Cherry Creek Silver Mining Co. In 1877, a "quartz ledge" was discovered on the opposite side of the creek from the original workings. The True Blue (Lot 254), Royal (Lot 255) and Batouche (Lot 256) claims were Crown granted to Hidden Treasure Mining Co. in 1889. By 1898, a tunnel 18 metres long was completed on the Hidden Treasure and Grand Times claims. In 1899, a 55-metre tunnel was located on the Grand Times claim. In 1905, a tunnel 15 metres long exposed "very rich" ore. In 1992, the workings were caved but mapping and sampling were ore. In 1992, the workings were caved but mapping and sampling were conducted in the area of the old workings.

The area is underlain by volcanic and sedimentary rocks of the

Upper Triassic to Lower Jurassic Nicola Group. The bedding strikes northwest and dips slightly south. Lithologies comprise volcanics, tuffs and argillite.

The old workings occur in argillite with quartz. The mineral-

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

ization comprises argentiferous galena, tetrahedrite or freibergite with galena and sphalerite. The mineralization occurs in quartz hosted in shale or slate. Assays were reportedly as high as 100,000 grams (\$2000/ton) per tonne silver with some gold (Minister of Mines Annual Report 1877, page 405). In 1992, a well-mineralized grab sample taken from the dump assayed 0.625 gram per tonne gold, 306.9 grams per tonne silver and 6.52 per cent zinc (Assessement Report 22223). Quartz at other localities in the area is not mineralized but the argillite in the footwall may host mineralization.

#### **BIBLIOGRAPHY**

EMPR AR 1874-15; 1889-317; 1896-563; 1898-1129; 1899-747; 1905-192
EMPR ASS RPT \*22223
EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514;
1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323;
1992, pp. 255-257
EMPR OF 1991-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 7216G; 8501G
GSC MEM 296
GSC OF 637 (#316)
GSC P 91-2, pp. 115-135
Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/12 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE036

NAME(S): JGR, JGR 1-4

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L01W BC MAP:

LATITUDE: 50 12 19 N LONGITUDE: 118 24 44 W ELEVATION: 1707 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Southern vein area (Assessment Report 14726).

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Tetrahedrite COMMENTS: Copper carbonates and possibly tetrahedrite.

ASSOCIATED: Quartz ALTERATION: Azurite
ALTERATION TYPE: Oxidation Malachite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: 9 STRIKE/DIP: Metres TREND/PLUNGE:

COMMENTS: Northeast dipping quartz vein is 2.5 to 9 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Undefined Formation

LITHOLOGY: Greywacke

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

COMMODITY **GRADE** 

Silver 2080.0000 Grams per tonne

COMMENTS: Highest assay; sample of copper carbonates and rusty gouge. Other samples vielded substantially laws restricted.

samples yielded substantially lower values.

REFERENCE: Assessment Report 14726.

**CAPSULE GEOLOGY** 

The JGR showing is located about 63 kilometres east of Vernon, near the headwaters of Silver Bell Creek. The property contains a 10 metre drift and 4 trenches which have not been reported. In 1985, D.R. Morgan conducted mapping and

YEAR: 1985

sampling on the property.

The claims are underlain by northeast dipping argillites and

greywackes of the Upper Triassic to Lower Jurassic Nicola Group.

Concordant quartz veins occur within the sediments in 2 areas;
a northern and a southern. These contain malachite, azurite and
possibly tetrahedrite. The veins are 3 to 9 metres wide and vary

from white "bull" quartz to rusty weathering.

The northern area contains a northeast dipping quartz vein, which is 2.5 to 9 metres wide. This vein has been exposed by 4 trenches and samples yielded low values (Assessment Report 14726).

The southern area contains 2 northeast dipping quartz veins

which are exposed by opencuts and a 10-metre drift. The highest values came from a sample of copper carbonates and rusty gouge exposed in a small pit. This sample assayed 2080 grams per tonne silver and 3.1 grams per tonne gold (Sample M1, Assessment Report 14726). Other samples yielded substantially lower values.

MINFILE NUMBER: 082LSE036

PAGE: 255 REPORT: RGEN0100

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5562409 EASTING: 399224

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14726
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257
EMPR OF 1991-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 7216G; 8491G
GSC MEM 296
GSC OF 637; 658
GSC P 91-2, pp. 115-135
CJES Vol. 26, No. 2

DATE CODED: 1986/09/22 DATE REVISED: 1994/11/22 CODED BY: AFW REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LSE036

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE037

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5558951 EASTING: 392809

IGNEOUS/METAMORPHIC/OTHER

Glacial/Fluvial Gravels

REPORT: RGEN0100

257

NAME(S): YEOWARD CREEK, PORCUPINE CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02E BC MAP:

LATITUDE: 50 10 23 N

LONGITUDE: 118 30 04 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence #328 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

Recent

LITHOLOGY: Gravel Unconsolidated Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Yeoward Creek deposit is located on Yeoward Creek near its confluence with Monashee Creek, about 22 kilometres south of

**FORMATION** 

Cherryville.

Ā "little" placer mining was attempted in 1923. An old story states that placer miners in the 1870s found coarse gold at the confluence of Yeoward and Monashee creeks. A 180-metre tunnel was driven but abandoned before they reached their goal. By 1923, the old tunnel was caved in.

Bedrock in the area consists of sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group and the Devonian to Triassic Harper Ranch Group.

Placer activity is reported from Yeoward Creek (Porcupine Creek) but no production is recorded.

**BIBLIOGRAPHY** 

EMPR AR \*1923-160 EMPR BULL \*28, p. 62; 79

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30; 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G

GSC MEM 296 GSC OF \*637 (#328); 658

GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIFLD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE038

NATIONAL MINERAL INVENTORY:

NAME(S): **NO NAME**, OCCURRENCE

STATUS: Past Producer REGIONS: British Columbia

Open Pit MINING DIVISION: Vernon

NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83) NORTHING: 5549130 EASTING: 394122

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 05 06 N LONGITUDE: 118 28 48 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of occurrence #329 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

MINERALS SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels STRATIGRAPHIC AGE GROUP Recent FORMATION

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage

**CAPSULE GEOLOGY** 

The No Name placer deposit is located on a tributary of the Kettle River (082LSE042), about 70 kilometres southeast of Vernon. Bedrock in this area consists of granitic rocks of the Jurassic

Nelson Intrusions.

This placer is classified as having produced according to Geological Survey of Canada Open File 637 but there are no records to support this. There is no other information available.

**BIBLIOGRAPHY** 

EMPR BULL 28

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF \*637(#329); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/11/29 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

Open Pit

MINFILE NUMBER: 082LSE039

NATIONAL MINERAL INVENTORY:

NAME(S): MARSH CREEK, PLACER LEASES 1291, 1310, 1358

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L01W

BC MAP: LATITUDE: 50 06 28 N

LONGITUDE: 118 29 00 W ELEVATION: 1380 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate center of Placer Lease 1291 (Assessment Report 7485).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

Recent

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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Glacial/Fluvial Gravels

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5551668 EASTING: 393934

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Okanagan Highland

#### CAPSULE GEOLOGY

The Marsh Creek deposits are located about 100 kilometres east of Vernon.

These deposits were originally worked by A. Marsh beginning in 1883 until his death in 1925. Marsh developed an adit, 3 short drifts and sunk a shaft to 13.5 metres. In 1935, an opencut was started. In 1938, the old upper drift was cleaned out and several test pits were dug. In 1941, the shaft was dewatered and it promptly caved. In 1942, the upper section of the creek was worked with a dragline. In 1947, a 4.2-metre shaft was sunk before it caved and then a 6-metre shaft was sunk near it. There was work done in the 1960s and 1970s but little information is available. In 1979, geophysical surveys, hand trenching, sluicing and panning were completed. In 1990, Commonwealth Gold completed geochemical surveys in this area.

The area is underlain by volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group. The creek contains glacial and fluvial gravels which contain placer gold.

It is believed that the source of the placer gold in Marsh Creek

is the quartz vein at the foot of the limestone cliffs above the south branch of Marsh Creek. This vein is described in the Monashee showings (082LSE001). The main catchment area for this gold is likely The location of the main buried channel remains to below the falls. be determined.

The amount of gold removed from this creek is unrecorded though A. Marsh was able to survive for at least 15 years on what he recovered.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*7485, 21592 EMPR BULL 28 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G GSC MEM 296 GSC OF 637 (#330); 658 GSC P 91-2, pp. 115-135

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

BIBLIOGRAPHY

CJES Vol. 26, No. 2

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MINFILE NUMBER: 082LSE039

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE040

NATIONAL MINERAL INVENTORY:

NAME(S): ROSE, ROSE 1-6, KEEFER

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 07 48 N LONGITUDE: 118 19 52 W ELEVATION: 1000 Metres NORTHING: 5553933 EASTING: 404862

IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Vernon

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #335 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP **FORMATION** 

Harper Ranch Undefined Formation Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Argillite

Quartzite Diorite Sill Diorite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

**CAPSULE GEOLOGY** 

The Rose showing is located north of Keefer Lake, about 56 kilometres east of Lumby. The KL showing (082LSE021) occurs to the

east and it is possible this is the same showing.
In 1973, El Paso Mining and Milling Company conducted soil sampling and a VLF-EM survey on the Rose claims. In 1982, the claims were staked as the Keefer claim and a geochemical soil survey was completed by John McGoran for F. Marehard. In 1983, Demus Petro Corp. through Burton Consulting conducted a geochemical and heavy mineral sampling program. In 1984, soil and sediment sampling was completed for Demus Petro Corp. by Andreas Schildhorn.

The area is underlain by sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group and the Upper Triassic to

Lower Jurassic Nicola Group.

The gold-silver showing is hosted in quartzites and argillites near a north trending diorite dike or sill. The showing is noted as #335 on Geological Survey of Canada Open File 637. No other information is available.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4761, 10871, 11645, 13545

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF \*637(#335); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/11/12 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE041

NATIONAL MINERAL INVENTORY:

NAME(S): MCINTYRE CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L02E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 02 30 N LONGITUDE: 118 33 16 W ELEVATION: 1170 Metres

NORTHING: 5544421 EASTING: 388696

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #346 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** Recent

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

**CAPSULE GEOLOGY** 

The McIntyre Creek showing is located on McIntyre Creek above the confluence with the Kettle River, about  $46\ \mathrm{kilometres}$  south of Cherryville.

The bedrock in the area consists of granitic rocks of the

Jurassic Nelson Intrusions. A gold placer showing is noted on Geological Survey of Canada

Open File 637 (#346). No other information is available.

**BIBLIOGRAPHY** 

EMPR BULL 28

EMPR BULL 28

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR OF 1990-30; 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296 GSC OF \*637(#346)

GSC P 91-2, pp. 115-135

CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSE042

NATIONAL MINERAL INVENTORY:

NAME(S): **KETTLE RIVER** 

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L01W

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 04 36 N

UTM ZONE: 11 (NAD 83) NORTHING: 5548217 EASTING: 393428

PAGE:

REPORT: RGEN0100

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LONGITUDE: 118 29 22 W ELEVATION: 1200 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of occurrence #348 (Geological Survey of Canada

Open File 637).

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated

CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Recent

FORMATION

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

### CAPSULE GEOLOGY

The Kettle River placer deposit is located on the Kettle River just north of the Vernon-Edgewood highway, about 1.2 kilometres below the bridge and about 70 kilometres southeast of Vernon.

In 1877, gold was discovered at the headwaters of the Kettle River. In 1886, Hollingsworth and McMillan recorded a discovery claim on the Kettle River about 25 kilometres from Monashee Mountain. In 1931, "attractive values" came from the riverbank about 1.2 kilometres below the bridge. In 1933, 2 leases were staked by C.H. Martin, Frank Layman and associates. They conducted small hydraulic operations along the benches.

Bedrock in the area consists of granitic rocks of the Jurassic Nelson Intrusions.

A cut 38 metres long by 7.6 metres high uncovered some welllayered slightly cemented gravel for about 60 centimetres above the granite bedrock. This section was predicted to average 45 cents a cubic yard and contained nuggets up to \$1.50. The gravel on and above the bedrock had all the appropriate formula 1.2. above the bedrock had all the appearances of an old channel.

Other test pits outlined an area 1.6 kilometres long and 800 metres wide on the east side. Above the road "encouraging prospects" were reported. About 3.2 kilometres below, in and at the mouth of the canyon, coarse gold values were mined.

The origin of most of this gold has been traced to the quartz

veins found in the argillites on Monashee Mountain (082LSE010,022). There is no record of how much placer gold was removed from the Kettle River.

### **BIBLIOGRAPHY**

EMPR AR 1877-404; 1886-213; \*1931-129; \*1933-162 EMPR BULL \*28, p. 36 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G GSC MEM 296 GSC OF \*637(#348); 658 GSC P 91-2, pp. 115-135

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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BIBLIOGRAPHY

CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1994/11/28 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE042

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE043

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5545795 EASTING: 398869

PAGE:

REPORT: RGEN0100

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NAME(S): **INONOAKLIN CREEK**, FIRE VALLEY CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L01W BC MAP:

LATITUDE: 50 03 21 N LONGITUDE: 118 24 46 W ELEVATION: 1200 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #351 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

Recent

IGNEOUS/METAMORPHIC/OTHER **FORMATION** Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Inonoaklin placer showing is located on Inonoaklin Creek

near Wauchope Creek.

In 1899, a nugget weighing 280-310 grams (9-10 ounces) from Fire Valley Creek was purchased by the government for the 1900 Paris

Exposition.

Bedrock in the area consists of granitic rocks of the Jurassic

Nelson Intrusions.

Placer activity was noted on this creek, but no production is recorded. Geological Survey of Canada Open File 637 indicates a placer showing at this location (#351). No other information is

available.

**BIBLIOGRAPHY** 

EMPR AR \*1899-611

EMPR BULL \*28, p. 62 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296 GSC OF \*637(351); 658

GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/11/22 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE044

NATIONAL MINERAL INVENTORY:

NAME(S): EUREKA

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Slocan

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L01W BC MAP: LATITUDE: 50 04 00 N

NORTHING: 5546883 EASTING: 405214

LONGITUDE: 118 19 28 W ELEVATION: 1630 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #353 (Geological Survey of Canada Open File 637).

The location is uncertain.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Iron sulphides. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Cretaceous Whatshan Intrusion

LITHOLOGY: Dike

Granodiorite

Sediment/Sedimentary

Volcanic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Okanagan Highland

### **CAPSULE GEOLOGY**

The Eureka workings are located north of Inonoaklin Creek and south of Eureka Creek.

The workings consist of 2 tunnels dating from around 1900. The lower tunnel is about 6 metres above the creek bottom and has been driven 30 metres to the north. The second tunnel is about 12 metres above this tunnel.

The area is underlain by sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group which have been intruded by granodiorite of the Cretaceous Whatshan batholith.

The tunnels appear to have followed a mineralized dike containing iron sulphides (pyrite) and gold values. A rough average sample yielded \$1.20 in gold per ton (about 2 grams per tonne at \$20.50 per ounce) and a trace of silver (Minister of Mines Annual Report 1901, page 1130-1131).

**BIBLIOGRAPHY** 

EMPR AR \*1901-1130,1131 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF \*637(#353); 658 GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1994/03/21 REVISED BY: DEJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE045

NATIONAL MINERAL INVENTORY:

NAME(S): HOLDING CREEK

STATUS: Past Producer REGIONS: British Columbia

Open Pit

NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Slocan

PAGE:

REPORT: RGEN0100

267

LATITUDE: 50 05 00 N LONGITUDE: 118 19 16 W ELEVATION: 1400 Metres NORTHING: 5548732 EASTING: 405485

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #354 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

Quaternary

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Holding Creek occurrence is located on Holding Creek, a tributary of Barnes Creek (082LSE053), about 48 kilometres southeast of Lumby.

Bedrock in the area consists of sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group.

Stream gravels which lie on both sides of the creek comprise benches up to 9 metres high, although the parts that were being worked are only 1.5 to 1.8 metres high.

A small amount of placer gold production is believed to have come from Holding Creek. This is possibly included in the production reported for Barnes Creek.

No other information is available.

**BIBLIOGRAPHY** 

EMPR BULL 28

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296, p. 138 GSC OF \*637(#354); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/19 CODED BY: GSB REVISED BY: DEJ

MINFILE NUMBER: 082LSE045

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSE046

NATIONAL MINERAL INVENTORY:

NAME(S): EUREKA CREEK, ZAG

STATUS: Past Producer REGIONS: British Columbia

MINING DIVISION: Slocan

NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

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268

LATITUDE: 50 04 35 N LONGITUDE: 118 19 18 W ELEVATION: 1430 Metres NORTHING: 5547961 EASTING: 405432

LOCATION ACCURACY: Within 5 KM

COMMENTS: Occurrence #355 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Eureka Creek deposit is located on Eureka Creek, a tributary of Barnes Creek, about 50 kilometres southeast of Lumby.

The bedrock in the area consists of sedimentary and volcanic

rocks of the Devonian to Triassic Harper Ranch Group.

This placer deposit is indicated as #355 on Geological Survey of Canada Open File Map 637. From 1931-1945, a total of 870 grams of gold is recorded as production from Eureka Creek (Bulletin 28, page

In 1983, heavy sediment sampling on the Zag claims resulted in several anomalous gold samples from tributaries of Eureka Creek. No anomalous samples came from Eureka Creek. No other information is available.

**BIBLIOGRAPHY** 

EMPR AR 1935-E36

EMPR ASS RPT 12338

EMPR BULL \*28, p. 14 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G GSC MEM 296, p. 138 GSC OF \*637(#355); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1993/10/29

CODED BY: GSB REVISED BY: DEJ

FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE047

NATIONAL MINERAL INVENTORY:

NAME(S): FRED WEST

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Slocan

PAGE:

REPORT: RGEN0100

269

LATITUDE: 50 04 00 N

NORTHING: 5546805 EASTING: 409746

LONGITUDE: 118 15 40 W ELEVATION: 1000 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #356 (Geological Survey of Canada Open File 637).

COMMODITIES: Zinc.

**MINERALS** 

SIGNIFICANT: Sphalerite COMMENTS: Sphalerite assumed from the Fred occurrence (082LSE014) to the east.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Sedimentary

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

Cretaceous

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Kootenay Assemblage Whatshan Intrusion

LITHOLOGY: Chloritic Schist

Quartz Mica Schist

Phyllite Amphibolite Limestone Granodiorite Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Fred West showing is located to the west of the Fred showing (082LSE014) on Barnes Creek, about 10 kilometres northwest of Needles ferry on Upper Arrow Lake.

The Fred claims were staked in 1970. In 1971, soil sampling and geological mapping were conducted by Versatile Mining Services for United Bata Resources.

The area is underlain by metasediments of unknown affinity intruded by granitic rocks of the Cretaceous Whatshan batholith. The metasediments comprise quartz mica schist, chloritic schist, phyllite, amphibolite and limestone. Granitic rocks comprise

granodiorite to quartz diorite and are generally porphyritic.

The showing is indicated as #356 on Geological Survey of Canada
Open File Map 637. The showing is a concordant, sedimentary zinc
occurrence hosted in metasediments which dip 45 degrees south and strike northwesterly.

No other information is available, but this showing is believed to be similar to the Fred occurrence.

BIBLIOGRAPHY

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637(#356); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1993/10/28 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE048

NATIONAL MINERAL INVENTORY:

NAME(S): **CHERRYVILLE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L07E BC MAP:

NORTHING: 5569859 EASTING: 383879

PAGE:

REPORT: RGEN0100

270

LATITUDE: 50 16 10 N LONGITUDE: 118 37 46 W ELEVATION: 800 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Approximate location of an "interesting" mica showing (Minister of Mines Annual Report 1932, page A144).

COMMODITIES: Mica

MINERALS
SIGNIFICANT: Mica MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Proterozoic-Paleoz. Kootenay Assemblage

LITHOLOGY: Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

CAPSULE GEOLOGY

The Cherryville occurrence is located about 2 kilometres northwest of Cherryville, west of the Shuswap River.

The area is underlain by metamorphic rocks of the Proterozoic to

Paleozoic Kootenay Assemblage. "Interesting occurrences" of mica occur in gneissic rocks near

Cherryville.

No other information is available.

**BIBLIOGRAPHY** 

EMPR AR \*1932-A144

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30

EMPR PF (082LSE General - Geology Maps of the Trinity Lake Area, C.E.

Cairns, 1929-1930)
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 7216G; 8502G
GSC MEM 296
GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/20 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ FIFLD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE049

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

NORTHING: 5551737 EASTING: 392008

REPORT: RGEN0100

271

NAME(S): **MONASHEE PASS** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 06 29 N LONGITUDE: 118 30 37 W ELEVATION: 1219 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop on west side of Highway 6, 17 kilometres southeast of Cherryville, as plotted on Map 82LSE (Energy, Mines and Petroleum

Resources - Industrial Mineral File).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Silica
COMMENTS: As chert bands and stringers.

MINERALIZATION AGE: Permian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Brachiopods/Fusulinids

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone

SHAPE: Irregular MODIFIER: Fractured

DIMENSION: 300 Metres STRIKE/DIP: 108/65S TREND/PLUNGE:

COMMENTS: Dimensions of limestone ridge; bedding attitude.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** 

Harper Ranch Undefined Formation DATING METHOD: Fossil

MATERIAL DATED: Brachiopods/Fusulinids

Jurassic **Nelson Intrusions** 

LITHOLOGY: Limestone

Greywacke

Hornblende Biotite Granodiorite

Chert

HOSTROCK COMMENTS: Harper Ranch limestones in the Vernon map area are approximately

Permian. The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1961

SAMPLE TYPE: Chip

COMMODITY **GRADE** 

49.5500 Per cent Limestone COMMENTS: Across 60 metres on the south end of the deposit. Grade given for

calcium oxide.

REFERENCE: Minister of Mines Annual Report 1961, page 148, Sample 12.

**CAPSULE GEOLOGY** 

A mass of Permian limestone of the Devonian to Triassic Harper Ranch Group outcrops in 50 metre high cliffs along the crest of a ridge for 300 metres on the west side of Highway 6, 17 kilometres south-southeast of Cherryville. The limestone occurs on the historic Monashee property (082LSE001); refer to it for further information. The limestone is bounded to the south by medium to coarse

grained hornblende biotite granite of the Jurassic Nelson Intrusions and to the north by greywacke. Bedding strikes 108 degrees and dips 65 degrees south.

The limestone is medium to fine grained, medium grey to white, massive to bedded and highly jointed. Chert is quite common,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

occurring as rusty stringers and as  $15\ {\rm to}\ 20\ {\rm centimetre}\ {\rm thick}\,,$  contorted bands.

A sample of chips taken in 3-metre intervals across 60 metres at the south end of the bluffs analyzed 49.55 per cent CaO, 1.99 per cent MgO, 5.79 per cent insolubles, 1.84 per cent R2O3, 0.83 per cent Fe2O3, 0.04 per cent MnO, 0.01 per cent P2O5, 40.37 per cent ignition loss and 0.20 per cent water (Minister of Mines Annual Report 1961, page 148, Sample 12).

#### **BIBLIOGRAPHY**

EMPR AR \*1961-148
EMPR ASS RPT 11789
EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257
EMPR OF 1991-18; \*1992-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 1059A; 7216G; 8502G
GSC MEM 296, pp. 42,46,47
GSC OF 481; 637
GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/09/16 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 082LSE049

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE050

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5565862

EASTING: 365973

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

273

NAME(S): CAMEL'S HUMP, CREIGHTON VALLEY, LUMBY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02W BC MAP:

LATITUDE: 50 13 47 N

LONGITUDE: 118 52 45 W ELEVATION: 914 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of surface trace of limestone band, 3.8 to 9.0 kilometres

southeast of Lumby (Minister of Mines Annual Report 1961, page 145).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Silica

COMMENTS: As chert inclusions.

MINERALIZATION AGE: Permian

**DEPOSIT** 

Massive Breccia

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime Industrial Min.

Limestone

**DIMENSION:** 4800 x 800 STRIKE/DIP: 102/70 Metres TREND/PLUNGE:

**FORMATION** 

Undefined Formation

COMMENTS: Bedding attitude near west end of band (Geological Survey of

Canada Map 1059A).

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

Harper Ranch

DATING METHOD: Fossil MATERIAL DATED: Fossils

LITHOLOGY: Limestone

Volcanic Flow Sandstone Araillite Chert

HOSTROCK COMMENTS: Harper Ranch limestones are Permian in the Vernon map area. The Harper

Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis YEAR: 1961

COMMODITY **GRADE** 

Limestone 52.1600 Per cent

COMMENTS: Grade given for calcium oxide.

REFERENCE: Minister of Mines Annual Report 1961, page 148, Sample 10.

CAPSULE GEOLOGY

A band of Permian limestone of the Devonian to Triassic Harper Ranch Group extends northwest for 4.8 kilometres along the southwest side of Camel's Hump, an elongate hill located 7.5 kilometres east-southeast of Lumby.

The band averages greater than 800 metres in width. The limestone is bounded by sandstone and argillite to the southwest and volcanic flows to the northeast. Bedding strikes 102 to 112 degrees and dips 45 to 70 degrees south (Geological Survey of Canada Map 1059A). The band consists of medium to fine grained, light to dark grey limestone containing some argillaceous streaks and inclusions of black chert. The rock is occasionally brecciated and healed with white calcite.

A sample of chips taken randomly over the band analyzed 52.16 per cent CaO, 0.48 per cent MgO, 3.84 per cent insolubles, 0.82 per cent R203, 0.50 per cent Fe203, 0.07 per cent MnO, 0.03 per cent

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

P205, 0.01 per cent sulphur 42.05 per cent ignition loss and 0.13 per cent water (Minister of Mines Annual Report 1961, page 148, Sample 10).

**BIBLIOGRAPHY** 

EMPR AR \*1961-145,147,148

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR OF 1991-18; \*1992-8; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 1059A; 7216G; 8502G

GSC MEM 296, pp. 38,39,42

GSC OF 481; 637

GSC P 91-2, pp. 115-135

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/09/16 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 082LSE050

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE051

NATIONAL MINERAL INVENTORY:

NAME(S): **SUGAR LAKE ONE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L07E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

275

BC MAP: LATITUDE: 50 21 00 N

NORTHING: 5578742 EASTING: 387514

LONGITUDE: 118 34 52 W ELEVATION: 1100 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Kyanite locality about 3 kilometres southwest of Sugar Lake (Geological Survey of Canada Memoir 296, page 161).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite Staurolite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Metamorphic TYPE: P02 Kyan Industrial Min.

Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic-Paleoz. Kootenay Assemblage

Pegmatite

LITHOLOGY: Gneiss

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The Sugar Lake One showing is located about 3 kilometres

southwest of Sugar Lake.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. Gneiss is the most predominant lithology, except in local areas that have escaped intense metamorphism. The principal minerals in the gneiss are quartz, feldspars, biotite, muscovite, hornblende, pyroxene, sillimanite and garnet. Kyanite occurs as an accessory mineral.

Kyanite occurs as a minor constituent in schist, pegmatite or vein quartz. Individual bladed blue crystals commonly attain lengths of 5 centimetres or more.

Staurolite occurs in thick prisms, commonly 7 centimetres long. The mineral is reddish brown to black and commonly exhibits the cruciform twinning.

The amount of kyanite and staurolite at this location is not enough to be of commercial value, but richer deposits may exist in the area.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1988-26; 1990-30

EMPR PF (082LSE General - Geology Maps of the Trinity Lake Area, C.E. Cairns, 1929-1930)

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8502G GSC MEM \*296, pp. 11,162

GSC OF 637

CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1994/12/20 REVISED BY: DEJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE052

NATIONAL MINERAL INVENTORY:

NAME(S): **SUGAR LAKE TWO** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L08W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

276

LATITUDE: 50 21 01 N LONGITUDE: 118 24 24 W ELEVATION: 1800 Metres NORTHING: 5578523 EASTING: 399925

MINING DIVISION: Vernon

LOCATION ACCURACY: Within 5 KM

COMMENTS: Kyanite locality about 8 kilometres southeast of Sugar Lake (Geological Survey of Canada Memoir 296, page 161).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite Staurolite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Metamorphic TYPE: P02 Kyan Industrial Min. Pegmatite

Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic-Paleoz. Kootenay Assemblage

LITHOLOGY: Gneiss

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The Sugar Lake Two showing is located about 8 kilometres

southeast of Sugar Lake.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. Gneiss is the most predominant lithology, except in local areas that have escaped intense metamorphism. The principal minerals in the gneiss are quartz, feldspars, biotite, muscovite, hornblende, pyroxene, sillimanite and garnet. Kyanite occurs as an accessory mineral.

Kyanite occurs as a minor constituent in schist, pegmatite or vein quartz. The individual bladed blue crystals commonly attain lengths of 5 centimetres or more.

Staurolite occurs in thick prisms, commonly 7 centimetres long. The mineral is reddish brown to black and commonly exhibits the cruciform twinning.

The amount of kyanite and staurolite at this location is not enough to be of commercial value, but richer deposits may exist in the area.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1988-26; 1990-30

EMPR PF (082LSE General - Geology Maps of the Trinity Lake Area, C.E. Cairns, 1929-1930)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8502G GSC MEM \*296, pp. 11,162

GSC OF 637

CODED BY: GSB DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1994/12/20 REVISED BY: DEJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE053

NATIONAL MINERAL INVENTORY:

NAME(S): **BARNES CREEK** 

STATUS: Past Producer REGIONS: British Columbia

Open Pit MINING DIVISION: Slocan

NTS MAP: 082L01W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 03 44 N LONGITUDE: 118 15 23 W ELEVATION: 1230 Metres NORTHING: 5546305 EASTING: 410076

PAGE:

REPORT: RGEN0100

277

LOCATION ACCURACY: Within 5 KM

COMMENTS: At the confluence of Barnes Creek with Eureka Creek (Bulletin 28,

COMMODITIES: Gold

MINERALS SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER Glacial/Fluvial Gravels STRATIGRAPHIC AGE GROUP FORMATION Recent

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage

### CAPSULE GEOLOGY

The Barnes Creek placer deposit is located on Barnes Creek about 11 kilometres west of Whatshan Lake. The exact location of the placer workings is unknown. Geological Survey of Canada Memoir 296 reports that these placer workings are on the tributaries of Barnes Creek which are Eureka Creek (082LSE046) and Holding Creek (082LSE45). B.C. Ministry of Energy, Mines and Petroleum Resources Bulletin 28 reports production for Barnes Creek and Eureka Creek.

Bedrock in the area consists of granitic rocks of the Cretaceous Whatshan batholith. Glacial and fluvial gravels in the creek

contained placer gold.

During 1935 to 1945, reported production from Barnes Creek was 2581 grams of gold. This is probably production from Holding Creek or at least includes production from Holding Creek (Bulletin 28, page 14).

No other information is available.

**BIBLIOGRAPHY** 

EMPR BULL \*28, p. 14 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G GSC MEM \*296, p. 13 p. 138 GSC OF 637; 658

GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

CODED BY: DEJ REVISED BY: DEJ DATE CODED: 1994/07/04 FIELD CHECK: N DATE REVISED: 1994/07/04 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE054

NATIONAL MINERAL INVENTORY:

NAME(S): **BEL**, BEL 1-2

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

278

LATITUDE: 50 12 20 N LONGITUDE: 118 24 47 W ELEVATION: 1680 Metres

NORTHING: 5562441 EASTING: 399165

LOCATION ACCURACY: Within 500M

COMMENTS: Workings on the No. 1 and 2 veins at the northwest corner of the

Bel claim (Assessment Report 10493).

COMMODITIES: Silver Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Pyrite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Limonite
ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Argillite

Phyllite Black Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: NO. 1 VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1987 Assay/analysis

COMMODITY

**GRADE** 1744.8000 Grams per tonne Silver 5.3000 Cold Grams per tonne

COMMENTS: Highest values from 2 samples on the No. 1 vein.

REFERENCE: Assessment Report 16783.

CAPSULE GEOLOGY

The Bel showing is located about 65 kilometres east of Vernon, near the headwaters of Silver Bell Creek. The Silver Horde (082LSE011) showing, which contains similar mineralization, is located less than 1000 metres to the west.

Previous unrecorded work has resulted in a 12-metre adit and some trenches on the showing. About 1979, Mineta Resources upgraded the road access and conducted cursory prospecting including an inspection of the workings and a number of soil samples. In 1981, limited soil sampling was completed. In 1987, the northwestern part of the Bel 1 claim was mapped and sampled; a soil survey was also conducted.

The area is underlain by the Upper Triassic to Lower Jurassic Nicola Group consisting of metamorphosed sediments and volcanics. Gneiss of the Proterozoic to Paleozoic Kootenay Assemblage occurs to the northwest and granitic rocks of the Jurassic Intrusions occur to the south. Deformation is considerable and local folding is common. Generally barren, white quartz veins intrude argillite, phyllite, black schist and quartzite.

Mineralization consisting of argentiferous galena, pyrite and subordinate chalcopyrite occurs irregularly in fractures and shears in the quartz veins. Three veins occur in the northwest part of the

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

claim and have been partially exposed.

On the No. 1 vein, a 12-metre adit was driven along a 0.2 to 2 metre wide quartz vein and a shear zone on the north side of the vein. The shear zone and the vein are both mineralized. The shear trends 285 degrees and dips 65 degrees north and the vein strikes 120 degrees and dips near vertical. There are no records of ore shipped from the adit. Two samples assayed up to 1744.8 grams per tonne silver and up to 5.3 grams per tonne gold (Assessment Report 16783).

The No. 2 vein, located about 15 metres southwest of the No. 1, trends 290 degrees and dips 62 to 75 degrees. The vein contains

The No. 2 vein, located about 15 metres southwest of the No. 1, trends 290 degrees and dips 62 to 75 degrees. The vein contains patchy sulphides along late fractures near the northern margin of the vein. Three chip samples across this vein assayed up to 1984.8 grams per tonne silver and 3.5 grams per tonne gold (Assessment Report 16783).

The No. 3 vein is hosted in intensely folded phyllite and is up to 10 metres wide. The vein appears to pinch and swell along at least 150 metres of strike length. The vein strikes 040 to 060 degrees and dips about 50 degrees southeast. Only scattered traces of a black sulfide mineral are present. Limonitic alteration material is locally present. Three samples of quartz from the trench assayed up to 41.5 grams per tonne silver and 0.14 gram per tonne gold (Assessment Report 16783).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 8063, \*10493, \*16783

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

EMPR PF (Highgrade Ventures Ltd., Prospectus 1988)

GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637; 658

GSC P 91-2, pp. 115-135

CJES Vol. 26, No. 2

GCNL #220, 1982

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/07/11 REVISED BY: DEJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE055

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5551420 EASTING: 400367

REPORT: RGEN0100

280

NAME(S): LYNX, KISMET, MOUNTAIN VIEW, IRON BALL, SNOWDROP, DEWDROP

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L01W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 06 24 N LONGITUDE: 118 23 36 W

ELEVATION: 1531 Metres LOCATION ACCURACY: Within 1 KM COMMENTS: Area of 1981 drilling near the Kismet adit (Assessment Report

10530).

COMMODITIES: Gold Silver Copper Molybdenum Lead

Antimony

SIGNIFICANT: Gold

Pyrite Molybdenite Chalcopyrite Stibnite Arsenopyrite Pyrrhotite Galena Jamesonite

ASSOCIATED: Quartz

ALTERATION: Sericite
COMMENTS: Granite is locally sericitic.

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

**MINERALS** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: The vein in the Kismet adit strikes northeast and dips steeply east.

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **GROUP FORMATION** 

Paleozoic-Mesozoic Harper Ranch Undefined Formation Jurassic Nelson Intrusions

LITHOLOGY: Granite

Araillite Limestone Volcanic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1981 Assay/analysis

**COMMODITY GRADE** 

Silver 13.4000 Grams per tonne Gold 28.5200 Grams per tonne Copper 0.0100 Per cent

COMMENTS: Best sample across 1.07 metres, from drillhole H-4-81 about 80 metres

north-northeast of the Kismet adit.

REFERENCE: Assessment Report 10530.

CAPSULE GEOLOGY

The Lynx showings are located 72 kilometres east of Lumby near Trapp Creek. The property consists of the Kismet, Mountain View,

Iron Ball, Snowdrop and Dewdrop claims.

The area is underlain by volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group. These have been intruded by granitic rocks of the Jurassic Nelson Intrusions. The granite is

locally sericitized.

In 1933, opencuts and a 22.5-metre adit was driven on the Kismet claim on a quartz vein in granite. Claim posts near the Kismet adit have tags dated 1965 and 1966. Bulldozer trenching was completed in 1980. In 1981, 8 diamond drillholes totalling 1608

metres were completed.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The known gold-bearing veins are fissure type, strike slightly east of north and dip steeply east. They are grey to bluish grey and commonly contain fine seams of pyrite with splashes of chalcopyrite and small amounts of stibnite. Molybdenite has also been observed.

The Kismet vein, hosted in granite, is 0.1 to 0.9 metre wide, strikes north and dips steeply east. The vein contains pyrite and arsenopyrite and lesser galena. A chip sample across the face of the drift assayed 35.65 grams per tonne gold and 2.06 grams per tonne silver (Assessment Report 10530).

At the Iron Ball claim, downhill from the Kismet adit and to the southwest, quartz veins contain pyrite and arsenopyrite and strike slightly east of north.

About 219 metres west of the Kismet and 62 metres lower, a 9-metre opencut has uncovered a shear zone 1.4 metres wide. This shear contains pyrite, pyrrhotite and lesser amounts of arsenopyrite in a gangue of quartz and disintegrated granite.

On the Dewdrop, west of the Iron Ball, opencuts have uncovered north-striking quartz fissure veins containing similar minerals in granite.

Several cuts to the east of the Kismet tunnel have uncovered other fissure veins in the granite.

On the Mountain View, adjoining the Kismet on the south and

On the Mountain View, adjoining the Kismet on the south and downhill, several cuts and a 9.4 metre tunnel have been driven on a quartz vein. This vein is extremely sheared and faulted and is hosted in altered limestone and argillite beds. Mineralization consists of pyrite, galena and jamesonite.

A new vein was discovered near drill hole H-7-81 hosting gold, pyrite and molybdenum. This vein assayed 5.83 grams per tonne gold and 55.19 grams per tonne silver from a selected surface grab sample. In a drill intersection the vein assayed 3.77 grams per tonne gold over 0.6 metres (Assessment Report 10530).

The best intersection was from hole H-4-81, about 80 metres north-northeast of the Kismet adit. The sample assayed 28.52 grams per tonne gold, 13.4 grams per tonne silver and 0.01 per cent copper across 1.07 metres (Assessment Report 10530). This hole probably intersected the extension of the Kismet vein.

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Resources Prospectus, 1987)
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GSC MEM 296
GSC OF 637; 658
GSC P 91-2, pp. 115-135
CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1994/06/30 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE055

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE056

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5590888 EASTING: 391776

REPORT: RGEN0100

282

NAME(S): <u>LAF</u>, LAF III, LAF IV, SUGAR LAKE

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L07E UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 27 36 N LONGITUDE: 118 31 29 W

ELEVATION: 1350 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Upper showing (Assessment Report 16277).

Gold COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Pyrite Sphalerite Magnetite

ASSOCIATED: Pyrite Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n Limonite Goethite Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Podiform Massive CLASSIFICATION: Igneous-contact Metamorphic

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Proterozoic-Paleoz. Kootenay Assemblage

LITHOLOGY: Gneiss

Diorite Diorite Sill Quartzite Gossan

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1987 Assay/analysis

> CATEGORY: Assay SAMPLE TYPE: Grab COMMODITY

**GRADE** 2.0000 Per cent Copper Per cent 7inc 1.5000

COMMENTS: Highest values from samples. One sample assayed 0.45 gram per tonne

gold. REFERENCE: Ässessment Report 16277.

**CAPSULE GEOLOGY** 

The Laf showing is located about 60 kilometres east-northeast of Vernon at the northwest end of Sugar Lake.

In 1986, 2 massive sulphide showings were discovered during

reconnaissance exploration and the Laf and Laf III claims were staked. The Laf IV claim was staked in 1989. In 1990, a magnetometer and HLEM survey was completed on the claims.

The area is underlain by Proterozoic to Paleozoic Kootenay
Assemblage metamorphic rocks. High grade metamorphic rocks
consisting primarily of gneiss with minor quartzite are intruded by a
fine to medium-grained diorite. There is evidence that the diorite is a sill capping the gneiss, with a thickness of 100 metres at the main showing. At a lesser showing at a lower elevation the sill is less than 1 metre thick.

Mineralized zones are marked by intense limonitic and goethitic gossans and occur at the gneiss-diorite contact. These zones vary  $% \left( 1\right) =\left\{ 1\right\}$ from 3 to 9 metres in thickness and have a 310 metre length along a northwesterly strike. The gneiss within the mineralized zone is very siliceous with some minor secondary quartz veins.

Mineralization occurs as disseminated siliceous pods of up to 90 per cent massive sulphides. These pods are up to 1 by 2 metres in

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

size. Pyrrhotite is the dominant sulphide with lesser amounts of

chalcopyrite, pyrite, sphalerite and magnetite.

The best sample assayed 2 per cent copper and 1.5 per cent zinc (Assessment Report 16277). Several samples contained anomalous gold values, the highest was 0.45 gram per tonne gold (Assessment Report 16277).

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GSC MAP 1059A; 7216G; 8502G
GSC MEM 296
GSC OF 637

DATE CODED: 1987/12/29 DATE REVISED: 1994/12/15 CODED BY: GJP REVISED BY: DEJ

MINFILE NUMBER: 082LSE056

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE057

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Slocan

Kootenay Assemblage

EASTING: 412731

PAGE:

REPORT: RGEN0100

284

NAME(S): THOR ODIN, MOUNT FOSTHALL, MOUNT SYMONDS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L08E 082L09E BC MAP: UTM ZONE: 11 (NAD 83) LATITUDE: NORTHING: 5592662

50 28 46 N LONGITUDE: 118 13 48 W ELEVATION: 1980 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Approximate centre of Area 1 containing showings scattered over 5

kilometres (Map 2-Figure 3, Open File 1988-26).

COMMODITIES: Sillimanite Garnet

**MINERALS** 

SIGNIFICANT: Sillimanite Garnet ASSOCIATED: Cordierite Corundum

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Lavered Disseminated

CLASSIFICATION: Metamorphic Industrial Min. TYPE: P02 Kyanite-sillimanite schists

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Monashee Complex

Proterozoic Proterozoic-Paleoz.

LITHOLOGY: Sillimanite Garnet Biotite Schist

Schist Gneiss Para Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Thor Odin showing area is located just south of Peters Lake,

about 70 kilometres northeast of Cherryville.

The area is underlain by metamorphic rocks of the Thor Odin gneiss dome of the Proterozoic Monashee Complex and the Proterozoic to Paleozoic Kootenay Assemblage. The rocks exposed in the Thor Odin dome are separated from other strata largely by faults. The Thor Odin dome consists of a core zone comprised of migmatized biotitealuminosilicate-rich schists and amphibolite. Overlying the core gneisses of the Thor Odin dome is an autochthonous mantling succession which consists of paragneiss, schist, quartzite, marble, calc-silicate schist and amphibolite.

In this area a distinctive aluminosilicate-rich schist is exposed. The schist is characterized by coarse porphyroblastic garnets up to 3 centimetres in diameter and/or very coarse sillimanite aggregates, up to 10 centimetres long. Sillimanite in these schists can comprise up to at least 15 per cent of the rock and is commonly rimmed by cordierite and corundum. These mafic schist layers are relatively thin, generally in the order of a few metres, but may be traced for nearly 2 kilometres along strike.

In the Mount Odin-Mount Symonds-Mount Fosthall area paragneisses

and schists are present which contain abundant coarse garnet and prismatic sillimanite. Typical exposures occur along the southern branch of Ledge Creek. These gneisses and schists may contain up to 15 per cent sillimanite which is present in the form of prismatic crystals up to 10 centimetres long, and abundant garnet porphyroblasts, up to 2.5 centimetres in size (Abraham, 1967; Geological Survey of Canada Bulletin 195). In the same area, coarse garnet, 1 to 2 centimetres in size can comprise up to 30 per cent of some amphibolite layers, but more commonly is present in quantities of 10 per cent or less (Geological Survey of Canada Bulletin 195).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC BULL \*195
GSC MAP 7216G; 8492G
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Abraham, B. (1967): Metamorphic Petrology of the Big Ledge Property, near Upper Arrow Lake, British Columbia; BSc. thesis, University of British Columbia, Vancouver, British Columbia, 60 pages
CJES Vol. 26, No. 2
Placer Dome File

DATE CODED: 1989/12/20 CODED BY: JP FIELD CHECK: N
DATE REVISED: 1995/01/04 REVISED BY: DEJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE058

NATIONAL MINERAL INVENTORY:

NAME(S): **CREIGHTON VALLEY**, LUMBY

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082L02W BC MAP: LATITUDE: 50 12 25 N

NORTHING: 5563371 EASTING: 364303

TREND/PLUNGE:

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LONGITUDE: 118 54 06 W ELEVATION: 1067 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of surface trace of limestone lens 6.4 kilometres southeast o

Lumby (Minister of Mines Annual Report 1961, page 145).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Permian

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone **DIMENSION:** 1600 x 180 STRIKE/DIP: Metres

COMMENTS: Limestone lens trends northeastward.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Harper Ranch IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Formation

Permian DATING METHOD: Fossil

LITHOLOGY: Limestone

HOSTROCK COMMENTS: Harper Ranch limestones are Permian in the Vernon map area. The

Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: YEAR: 1961 Assay/analysis SAMPLE TYPE: Grab

COMMODITY **GRADE** 

53.0700 Per cent Limestone

COMMENTS: Grade given for calcium oxide.

REFERENCE: Minister of Mines Annual Report 1961, page 148, Sample 11.

**CAPSULE GEOLOGY** 

A lens of Permian limestone of the Devonian to Triassic Harper Ranch Group trends southwestward from Creighton Valley for  $1.6\,$ 

kilometres, 6.4 kilometres southeast of Lumby.

The lens, 180 metres wide, contains medium to fine-grained, light grey to white, highly fractured limestone with discontinuous lenses of white chert and veinlets of white quartz.

A sample of chips collected randomly from the top of the lens assayed 53.07 per cent CaO, 0.26 per cent MgO, 4.02 per cent insolubles, 0.30 per cent R203, 0.26 per cent Fe203, 0.04 per cent MnO, 0.02 per cent P205, trace of sulphur, 42.16 per cent ignition loss and 0.10 per cent water (Minister of Mines Annual Report 1961, page 148, Sample 11).

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EMPR OF 1991-18; \*1992-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 1059A; 7216G; 8502G GSC MEM 296, pp. 38,39,42

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1989/09/18 CODED BY: PSF FIELD CHECK: N DATE REVISED: 1995/01/05 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE058

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE059

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

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 $\mathsf{NAME}(\mathsf{S}) \colon \operatorname{\underline{\textbf{MONASHEE}}} \mathsf{CREEK} \operatorname{\underline{\textbf{PLACER}}}, \mathsf{SOUTH} \operatorname{FORK} \mathsf{CHERRY} \operatorname{CREEK}, \mathsf{RAMBLER}$ 

STATUS: Past Producer REGIONS: British Columbia Open Pit MINING DIVISION: Vernon

NTS MAP: 082L02E 082L01W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 10 13 N LONGITUDE: 118 30 23 W ELEVATION: 800 Metres NORTHING: 5558649 EASTING: 392426

LOCATION ACCURACY: Within 5 KM

COMMENTS: Location very approximate (Bulletin 28, symbol 168).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

Surficial placers TYPE: C01

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Recent Glacial/Fluvial Gravels

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage

CAPSULE GEOLOGY

The Monashee Creek Placer deposit is located on Monashee Creek, just south of Cherry Creek. Monashee Creek was previously known as  $% \left( 1\right) =\left( 1\right) +\left( 1\right)$ the south fork of Cherry Creek (082LSE013) and there is possibly some

confusion between the placer activity on these two creeks.

In 1932, several placer miners were working along Monashee Creek and they reported small recoveries. In 1940 and 1941, mining of gold-bearing gravel in an old channel below the creek bed took place.

Bedrock in this area comprises volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group.

Gravels from this creek are reported to have produced 6749 grams of gold (217 ounces) during the period from 1936 to 1945 (Bulletin 28, page 63). The gold from Monashee Creek and Cherry Creek has a low fineness (695.5 to 700.0).

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EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 199 GSC MAP 7216G; 8491G; 8501G 1991

GSC MEM 296, p. 138 GSC OF 637; 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1994/11/14 CODED BY: DEJ FIELD CHECK: N REVISED BY: DEJ DATE REVISED: 1994/12/15 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE060

NATIONAL MINERAL INVENTORY:

NAME(S): PITA 2, PITA 9, PITA 1, PITA 1-9, PITA, AIM

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082L02E

BC MAP:

LATITUDE: 50 09 07 N LONGITUDE: 118 32 57 W

ELEVATION: 1630 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of galena showing on Pita 2, trench C8 (Assessment Report

13353).

COMMODITIES: Lead

Copper

Magnetite

**MINERALS** 

SIGNIFICANT: Galena

COMMENTS: Possibly sphalerite.

Magnetite

Chalcopyrite

ASSOCIATED: Quartz

**Epidote** 

Garnet Skarn

Silica

ALTERATION: Limonite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Skarn

Pb-Zn skarn TYPE: K02

HOST ROCK

Jurassic

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic

<u>GROUP</u>

Harper Ranch

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5556674 EASTING: 389328

REPORT: RGEN0100

289

Nelson Intrusions

LITHOLOGY: Limestone

Diorite Argillite Sandstone Conglomerate Andesite Tuff Skarn

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Okanagan Highland

## CAPSULE GEOLOGY

The Pita 2 showing is located about 50 kilometres southeast of Vernon in the Monashee mountains. Crown grants south and adjacent to the Pita 2 showing cover the Monashee mine (082LSE001). Minor placer

workings are located on Heckman and Monashee creeks. The Pita claims were staked in 1981 and purchased by Mohawk Oil Co. who conducted geological and geochemical surveys. In 1983, VLF-EM and magnetic surveys, geological mapping, prospecting and trenching were completed. In 1984, a program of prospecting and induced polarization was conducted. In 1986, a geochemical survey was conducted on the Aim property, which covered the Pita 9 claim, by Searchlight Resources Inc. In 1986, geochemical sampling, geological mapping, prospecting and magnetometer and VLF-EM surveys were completed. In 1987, prospecting and geochemical sampling was completed. In 1988, a drilling program consisting of 3 drillholes was conducted on the central gossan zone on the Pita 1 claim. In 1988, geological mapping and soil sampling were completed on the Pita 2 and 5 claims.

The area is underlain by Devonian to Triassic Harper Ranch Group sedimentary and volcanic rocks which have been intruded to the south by granitic rocks of the Jurassic Nelson Intrusions. These are overlain by Miocene Chilcotin Group basalts.

The local area is underlain primarily by locally folded black argillite, limestone, conglomerate, sandstone, andesite, tuffs and diorite. Skarn is locally developed at limestone-diorite contacts. Disseminated pyrite occurs along shears in altered andesite, in

MINFILE NUMBER: 082LSE060

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

argillite and in quartz veinlets in argillite.

Near the northeastern boundary of the Pita 2 claim, galena, pyrite, epidote, garnet, limonite and quartz occur in limestone near its contact with diorite. Magnetite occurs in the diorite. About 500 metres to the south, trench C7 exposed pyrite and chalcopyrite in andesite and diorite. Trench C7 is also plotted as being on the Pita 9 claim, so there is some confusion about where the trenches were. However, a program on the Pita 9 claim in 1986 makes no mention of a trench.

A gossan zone occurs near the centre of the boundary between the Pita 1 and 7 claims. This gossan gave anomalous geochemical and geophysical results and was drilled in 1988. Only disseminated pyrite was intersected and the results were disappointing. A grab sample taken from the L1 trench, just southeast of the gossan, assayed 0.195 gram per tonne gold and a 15 centimetre chip sample assayed 2.5 grams per tonne silver (Assessment Report 13353). These are some of the best results from the trenching program.

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EMPR OF 1991-18; 1994-8

EMPR PF (Approach Resources Inc., Prospectus, 1987)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296

GSC OF 637

GSC P 91-2, pp. 115-135

 DATE CODED:
 1994/12/06
 CODED BY:
 DEJ
 FIELD CHECK:
 N

 DATE REVISED:
 1994/12/06
 REVISED BY:
 DEJ
 FIELD CHECK:
 N

MINFILE NUMBER: 082LSE060

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE061

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5551066 EASTING: 391577

REPORT: RGEN0100

291

NAME(S): PITA 29, PITA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L02E BC MAP:

LATITUDE: 50 06 07 N LONGITUDE: 118 30 58 W ELEVATION: 1215 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of sampled quartz vein (Assessment Report 16668).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

DIMENSION: 1 Metres COMMENTS: The vein is 91 centimetres wide. STRIKE/DIP: TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Diorite

Limestone Argillite Sandstone Conglomerate Andesite Tuff

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic. The hostrock is not

known, but the area has been mapped as Nelson Intrusions.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1987 Assay/analysis

COMMODITY **GRADE** 

Gold 0.5900 Grams per tonne

COMMENTS: Sample across 91 centimetres of a pyritic, rusty quartz vein.

REFERENCE: Assessment Report 16668.

**CAPSULE GEOLOGY** 

The Pita 29 showing is located about 55 kilometres southeast of Vernon in the Monashee mountains. The Monashee mine (082LSE001) is located to the north and the Top deposit (082LSE017) adjoins it to the south. Minor placer workings are located on Heckman and Monashee

creeks.

The Pita 29 claim was staked in 1987 by Approach Resources who completed initial prospecting and geochemical sampling.

The area is underlain by granitic rocks of the Jurassic Nelson

Intrusions which have intruded Devonian to Triassic Harper Ranch Group sedimentary and volcanic rocks. These comprise limestone, argillite, sandstone, conglomerate, andesite and tuff.

A 91 centimetre wide pyritic, rusty quartz vein occurs near the centre of the claim. A 91-centimetre chip sample assayed 0.59 gram  $^{\circ}$ per tonne gold (Assessment Report 16668).

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EMPR OF 1991-18; 1994-8

EMPR PF (See 082LSE060 - Approach Resources Prospectus, 1987)

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296

GSC OF 637

GSC P 91-2, pp. 115-135

DATE CODED: 1994/12/06 DATE REVISED: 1994/12/06 CODED BY: DEJ REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE061

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE062

NAME(S): COAL 1, COAL 1-3

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02E BC MAP: LATITUDE: 50 05 51 N

LONGITUDE: 118 42 21 W ELEVATION: 1667 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein on Coal 1 claim (Assessment Report 6983).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated

Epigenetic DIMENSION: 1 Metres

COMMENTS: Vein is 1 metre wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Chilcotin **FORMATION** IGNEOUS/METAMORPHIC/OTHER Miocene Undefined Formation

STRIKE/DIP:

Jurassic Nelson Intrusions

LITHOLOGY: Granodiorite

TERRANE: Quesnel

Basalt Volcaniclastic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Coal 1 showing is located 26 kilometres southeast of Lumby and 45 kilometres east-southeast of Vernon.

The property was acquired in 1977 by Union Oil to explore for lum. In 1977, radiometric and magnetic surveys were done. In uranium. 1978, geology, geochemistry and further radiometric and magnetic

surveys were completed.

The area is underlain by granodiorite of the Jurassic Nelson

Intrusions. These are overlain by glanoutite of the dufassic Netson Intrusions. These are overlain by plateau basalts with intercalated volcaniclastics of the Miocene Chilcotin Group.

A 1-metre quartz vein occurs in granodiorite near a shear zone. The vein contains traces of fine-grained molybdenite. About 500 metres to the southwest, an outcrop of chloritic, sheared and altered granodiorite contains disseminated pyrite.

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EMPR ASS RPT 6683, \*6983 EMPR ASS RP1 6083, 6983 EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8501G

GSC MEM 296 GSC OF 637

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CODED BY: DEJ REVISED BY: FIELD CHECK: N DATE CODED: 1994/12/09 DATE REVISED: / /

MINFILE NUMBER: 082LSE062

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5550865 EASTING: 377999

TREND/PLUNGE:

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE063

NATIONAL MINERAL INVENTORY:

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NAME(S): MIDNIGHT NAILS 1-2, REB, HILTON, SNAFU, CARRYON

STATUS: Prospect Underground MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L02E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 12 15 N LONGITUDE: 118 34 01 W NORTHING: 5562506 EASTING: 388180

ELEVATION: 754 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein near centre of Midnight Nails 1-2 claims (Assessment

Report 11892).

COMMODITIES: Gold Zinc Silver Lead

**MINERALS** 

SIGNIFICANT: Galena Pyrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Shear Disseminated

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Argillite Shale

Lamprophyre Dike Felsite Dike Volcanic Sill Lamprophyre Sill Lamprophyre Greywacke Andesite Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Quesnel

INVENTORY

REPORT ON: N ORE ZONE: TRENCH

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1988

COMMODITY **GRADE** 

Silver 76.1000 Grams per tonne Gold 20.5000 Grams per tonne Lead 1.0500 Per cent

COMMENTS: Highest values from samples of the Cherry shear zone, over 90 metres,

where no quartz veins are present.

REFERENCE: Assessment Report 18706.

CAPSULE GEOLOGY

The Midnight Nails 1-2 showing is located 9.5 kilometres east of Cherryville, just south of Hilton on the east side of Highway 6

underneath the powerlines.

The claims were previously staked as the Reb claims but no work eported. In 1980, a soil sampling and prospecting program was was reported. conducted on the claims which were later staked as the Carryon and Snafu claims. In 1983, geological mapping, a VLF-EM survey and 1 trench were completed. In 1986, a geophysical survey was done on the claims. In 1987, geological prospecting and sampling was conducted on the claims, now called the Hilton property. In 1988, a program of geological mapping, soil sampling, geophysics and trenching was completed.

MINFILE NUMBER: 082LSE063

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise andesite lava and tuffs with minor argillite, greywacke, quartzite and limestone interbeds.

The Bulldozer Trench showing, discovered in 1980, was exposed by a trench in 1983 which was expanded in 1988. Discontinuous quartz veins occur in shears. There are 2 mineralized shear zones in the Bulldozer trench, the Cherry and Hilton shears. The veins are hosted in laminated shale and argillite which has been intruded by silicified volcanic sills and felsite dikes. The Cherry shear strikes 090 degrees and dips 40 degrees south. Mineralized pods occur near a lamprophyre dike and sill and contain small amounts of galena; samples assay up to 158 grams per tonne gold and 1251 grams per tonne silver (Assessment Report 11892). Samples from the vein in the Cherry shear assayed up to 2.16 grams per tonne gold and 0.9 gram per tonne silver over 1 metre (Assessment Report 18706). Samples from discontinuous quartz veins in the Hilton shear assayed up to 0.42 gram per tonne gold and 0.7 gram per tonne silver over 40 centimetres (Assessment Report 18706). Samples of the Cherry shear where no quartz veining is present assayed up to 20 grams per tonne gold, 1.05 per cent lead and 76 grams per tonne silver over 90 metres (Assessment Report 18706). Samples of the Hilton shear where no quartz veining is present assayed up to 0.77 gram per tonne gold and 1.9 grams per tonne silver over 1 metre (Assessment Report 18706). Disseminated pyrite occurs in the argillite-greywacke adjacent to the shears. Both shears are open along strike and downdip.

The dike and sill are highly altered, iron rich and contain 2 to 5 per cent biotite. A sample assayed 4.2 per cent lead, 1.86 per cent zinc, 42.2 grams per tonne gold and 212.5 grams per tonne silver (Assessment Report 11892). The dike is about 4 metres wide and trends 248 degrees.

The number 1 showing, called the second showing in 1988, is located about 300 metres northwest of the Bulldozer Trench vein. This showing comprises quartz veins, 5 to 10 centimetres wide, which are exposed in an outcrop of shale and argillite containing chert bands. The veins are discontinuous, often breaking up in the soft, sheared sediment host. A sample taken across rusty silicified shale and quartz vein material assayed 0.2 gram per tonne gold, 9.6 grams per tonne silver, 0.3 per cent lead and 0.04 per cent zinc (Assessment Report 17386). The wallrock contains high values in gold and silver. Small lenses of quartz occur within the shales and argillites. The lenses range up to 1.5 metres in length and 0.5 metre in width. The sediments are unaltered, strike northwesterly and dip 48 to 54 degrees south.

The number 2 showing is 300 metres northwest of the number 1 showing. An outcrop of sheared and altered shale contains disseminated pyrite. Silicified volcanic sills occur along bedding planes which strike 100 degrees and dip 60 degrees south. A 1.2 metre wide quartz vein containing 2 to 3 per cent pyrite assayed low in all metals.

The number 3 showing is 250 metres northwest of showing number 2. Exposed volcanic feldspar porphyry (lamprophyre) contains over 5 per cent biotite and is mineralized with disseminated pyrite. A sample across 60 centimetres of this zone assayed 0.14 gram per tonne gold and greater than 0.2 per cent arsenic (Assessement Report 17386).

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EMPR ASS RPT 8770, 8993, \*11892, 14825, \*17386, 18706

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514; 1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8501G

GSC MEM 296

GSC OF 637

GSC P 91-2, pp. 115-135

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MINFILE NUMBER: 082LSE063

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE064

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5588056 EASTING: 391284

IGNEOUS/METAMORPHIC/OTHER

Kootenay Assemblage

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L07E

LONGITUDE: 118 31 51 W ELEVATION: 671 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of rock chip sample containing sulphides

(Assessment Report 22524).

COMMODITIES: Copper

Chalcopyrite **Pyrite** ASSOCIATED: Muscovite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz.

LITHOLOGY: Siliceous Rock

Gneiss Schist Pegmatite Quartzite Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

CAPSULE GEOLOGY

The Dionne showing is located near Sugar Lake on the south side of Sprockton Creek, about 37 kilometres northeast of Lumby.

FORMATION

In 1992, a prospecting and sampling program was conducted on the Dionne claim.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. These comprise gneiss, schist, pegmatite, quartzite and marble.

An outcrop contains pegmatite bands and a siliceous rock unit in gneiss. The siliceous material contains fine pyrrhotite and lesser amounts of pyrite or chalcopyrite. Assay values from a rock chip sample of this outcrop were low in base and precious metals (Assessment Report 22524). The pegmatite contains books of muscovite

up to about 1 centimetre in size.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*22524

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1990-30

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8502G

GSC MEM 296 GSC OF 637

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CODED BY: DEJ REVISED BY:

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FIELD CHECK: N

FIELD CHECK: N

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NAME(S): **DIONNE** 

BC MAP: LATITUDE: 50 26 04 N

MINERALS
SIGNIFICANT: Pyrrhotite
Muscovite

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE065

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5569859 EASTING: 361973

REPORT: RGEN0100

297

NAME(S): **B.S. 3**, BS 3, SADDLE, SADDLE MOUNTAIN

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L07W 082L02W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE:

LONGITUDE: 118 56 12 W ELEVATION: 610 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of veins at the west-central boundary of the

B.S. 3 claim (Assessment Report 22556).

COMMODITIES: Gold Zinc Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite **Bornite** 

Covellite Pyrrhotite Graphite ASSOCIATED: Quartz

ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Stockwork Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Calcareous Meta Sediment/Sedimentary

Granodiorite Tuff Argillite Siltstone Shale Schist Limestone Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Grab YEAR: 1993

**COMMODITY GRADE** 

Silver 8.0000 Grams per tonne Gold 14.0000 Grams per tonne

COMMENTS: Highest values from a sample of the veins. Another sample assayed

greater than 1 per cent lead and 1 per cent zinc. REFERENCE: Assessment Report 22556.

**CAPSULE GEOLOGY** 

The B.S. 3 showing is located adjacent to the Lumby (Chaput) deposit (082LSE006), about 1.7 kilometres east of Lumby.

In 1987, Zicton Gold acquired the claim and conducted geological

and geophysical surveys. In 1988, a geophysical survey was conducted. In 1989, a diamond drillhole and sampling were completed. In 1991, geological and VLF-EM surveys and one diamond drillhole were completed. In 1990, a diamond drillhole at the northeastern corner of B.S. 3 was completed. In 1992, geological mapping and geophysical surveys were conducted on the B.S. 3 and Hol 1-4 claims. In 1993, geological mapping and rock and soil sampling

were completed on these claims. The area is underlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These comprise primarily

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

argillite and tuff but include siltstone, limestone, shale, conglomerate and schist.

Veins occur in metasedimentary rocks near the highly altered contact with granodiorite.

An outcrop, 200 metres long, is exposed in a roadcut. The eastern 100 metre portion of the outcrop is on the B.S. 3 claim. The outcrop consists of bleached, sericitized, calcareous metasediments cut by three pyritic, sulphide-bearing quartz veins (Samples D-92-10, 11, 12). Altered granodiorite occurs at the extreme east end of the outcrop.

The quartz veins contain 1 to 2 per cent cubic pyrite (locally up to 10 per cent) with up to 1 per cent galena, up to 1 per cent sphalerite, trace copper sulphides (chalcopyrite, bornite, covellite) and up to 1 or 2 per cent graphite. These discordant quartz veins trend east-northeast to west-northwest and are likely in a stockwork system. The best sample assayed 14.0 grams per tonne gold and 8.0 grams per tonne silver (Assessment Report 22556). Another sample assayed greater than 1 per cent lead and 1 per cent zinc (Assessment Report 22556).

Drilling in 1989 and 1990 intersected disseminated pyrite and pyrrhotite in fractures, stringers and veinlets in tuff and argillite. Samples taken in 1994 assayed 0.08 to 0.25 gram per tonne gold (George Cross Newsletter No. 61, 1994).

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EMPR ASS RPT 16349, 17816, 18978, 20385, 21560, \*22556, 22937, 23337, 23591

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EMPR OF 1990-30

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8502G

GSC MEM 296

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GCNL #61, 1994

Placer Dome File

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE066

NATIONAL MINERAL INVENTORY:

NAME(S): **ECHO II**, CREIGHTON CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02E BC MAP:

LATITUDE: 50 10 26 N

LONGITUDE: 118 43 10 W ELEVATION: 1372 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample LES-115 (Assessment Report 16413).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite

ALTERATION: Silica
ALTERATION TYPE: Silicific'n

Clay Limonite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP

Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Kootenay Assemblage

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MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5559380

EASTING: 377221

LITHOLOGY: Mica Schist

Phyllite Amphibolite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Okanagan Highland

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1987

SAMPLE TYPE: Grab

COMMODITY

Grams per tonne

Silver Gold

1.3000

1.0800 Grams per tonne COMMENTS: Highest values from a sample of silicified and pyritic outcrop.

REFERENCE: Assessment Report 16413.

**CAPSULE GEOLOGY** 

The Echo II showing is located on the north side of Bonneau

**GRADE** 

Creek, about 40 kilometres east-southeast of Vernon.

The claims were staked in 1982 and work in 1983, 1984 and 1987 identified geochemically anomalous areas and located zones of altered and silicified outcrop. In 1988, a silicified and pyritic outcrop was discovered during geological mapping, prospecting and geophysics.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. Locally, these comprise primarily

schistose rock but include phyllite, amphibolite and limestone.

A 40 centimetre wide zone of silicified mica schist occurs within an 18 metre wide outcrop of fractured clay-rich and limonitic schist.

A sample taken from this zone assayed 1.3 grams per tonne silver and 1.08 grams per tonne gold (Sample LES-115, Assessement Report 16413). Other samples assayed between 0.001 and 0.009 gram per tonne gold (Assessement Report 16413).

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1992, pp. 255-257 EMPR OF 1990-30; 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991

MINFILE NUMBER: 082LSE066

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 7216G; 8501G GSC MEM 296 GSC OF 637 GSC P 91-2, pp. 115-135

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE067

NATIONAL MINERAL INVENTORY:

NAME(S): OK, HAZ 5, DEAFIES CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L07W 082L06E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

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LATITUDE: 50 18 39 N LONGITUDE: 118 59 21 W ELEVATION: 1100 Metres

NORTHING: 5575084 EASTING: 358369

LOCATION ACCURACY: Within 500M

COMMENTS: Location of diamond-drill hole Z90-2 on the OK claim (Assessment

Report 22954).

COMMODITIES: Copper 7inc Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Arsenopyrite Sphalerite

Bornite ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

Covellite Limonite

**DEPOSIT** 

CHARACTER: Disseminated Shear Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic Nicola Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Argillite Slate

Greywacke Granodiorite Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Quesnel

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1989 SAMPLE TYPE: Drill Core

**GRADE** 

COMMODITY 0.6500 Per cent Copper

COMMENTS: Best drill hole intersection across 1.5 metres of black argillite with

pyrite. Also 0.1 gram per tonne silver. REFERENCE: Assessment Report 18932.

CAPSULE GEOLOGY

The OK showing is located about 6 kilometres north of Lumby and 4 kilometres north of the Lumby (Chaput) deposit (082LSE006).

The Haz 5 claim was staked in 1984 and the OK claim was staked

in 1985. These were optioned to Zicton Gold Ltd. in 1989 and they explored the claims and stripped a mineralized shear zone on the OK claim. In 1989 and 1990, 2 diamond drillholes were completed on the OK claim. In 1991, mapping and prospecting were conducted on the claims. In 1992, mapping and geophysical surveys were completed around the main shear. In 1993, a soil survey was conducted over the

area and the northern part of the property was mapped.

The area is underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. Locally, these comprise argillite, slates and greywacke and intruded by granodiorite of the Jurassic Nelson Intrusions. The bedding strikes east-

southeast and dips shallowly. A shear was stripped for 26 metres along strike. A 1-metre wide zone of rusty gouge, vein quartz and massive sulphides was exposed. The shear strikes 255 degrees and is approximately vertical. Mineralization consists of pyrite, limonite, chalcopyrite,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

arsenopyrite and sphalerite.

The 1989 drillhole on the shear zone intersected quartz veins with pyrite and disseminated sulphides in black argillite and, to a lesser degree, tuff. The best intersection, across 1.5 metres, assayed 0.65 gram per tonne gold and 0.1 gram per tonne silver from black argillite with pyrite (DDH OK89-1, Assessment Report 18932). The 1990 drillhole, about 49 metres from the 1989 hole, intersected traces of pyrite, pyrrhotite and chalcopyrite in quartz stringers and argillite (DDH Z90-2, Assessment Report 20363).

In 1991, a shallow trench followed the contact between argillite and granodiorite marked by shearing and quartz veining. This contact strikes 040 degrees, dips subvertically and is a undulating. The veins are gossanous, weakly calcareous and contain trace fracture-related pyrite and chalcopyrite. These contain up to 0.0089 per cent copper, 0.0012 per cent lead and 0.0102 per cent zinc (Assessment Report 21561). The wallrock argillite is gossanous, calcareous, sheared, occasionally brecciated and weakly magnetic (due to pyrrhotite). The argillite contains 2 to 3 per cent pyrite, 1 to 2 per cent chalcopyrite, I per cent pyrhotite, trace bornite, trace covellite, trace malachite and possibly trace native copper. Samples of the argillite assayed up to 0.035 gram per tonne gold, 0.0853 per cent copper, 0.0030 per cent lead, 0.0164 per cent zinc and more than 15 per cent iron (Assessment Report 22554).

Mapping in 1993 failed to find economic mineralization in the main trench (Assessment Report 22954).

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EMPR ASS RPT \*18932, 20363, 21561, \*22554, \*22954, 23421 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1990-30 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8502G GSC MEM 296

GSC OF 637

DATE CODED: 1994/12/14 CODED BY: DEJ REVISED BY: DEJ FIELD CHECK: N DATE REVISED: 1994/12/15 FIELD CHECK: N

MINFILE NUMBER: 082LSE067

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE068

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5557736

EASTING: 380220

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

303

NAME(S): **BONNE 1**, CREIGHTON CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L02E BC MAP:

LATITUDE: 50 09 35 N LONGITUDE: 118 40 37 W ELEVATION: 1450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample LES-158 (Assessment Report 16413).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** 

Harper Ranch

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** 

Jurassic Nelson Intrusions

LITHOLOGY: Limestone Schist Granite Phyllite Amphibolite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

Undefined Formation

TERRANE: Quesnel

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis YEAR: 1988

> **GRADE**

COMMODITY Silver 31.6000 Grams per tonne Gold 0.5300 Grams per tonne

COMMENTS: Sample from quartz vein. REFERENCE: Assessment Report 16413.

**CAPSULE GEOLOGY** 

The Bonne 1 showing is located on the south side of Bonneau

Creek, about 43 kilometres east-southeast of Vernon.

The claims were staked in 1982 and work in 1983, 1984 and 1987 identified geochemically anomalous areas and located zones of altered and silicified outcrop. In 1988, a silicified and pyritic outcrop was discovered during geological mapping, prospecting and geophysics.

The area is underlain by sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. In the area of the showing these comprise primarily schistose rock but include phyllite, amphibolite and limestone. These have been intruded by granitic rocks of the Jurassic Nelson intrusions.

Quartz veins occur in limestone south of Bonneau Creek on the Bonne 1 claim, about 3.3 kilometres southeast of the Echo II showing (082LSE066). A sample assayed 31.6 grams per tonne silver and 0.53 gram per tonne gold (Sample LES-158, Assessment Report 16413); another sample yielded elevated arsenic values ((Sample LES-204 Assessment Report 16413). The veins occur near the contact with intrusive rocks.

MINFILE NUMBER: 082LSE068

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 11718, 11814, 13360, \*16413, 17041, 17157, 18350, 18351
EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58, 401-404, 511-514;

1988, pp. 49-54; 1990, pp. 301-306; 1991, pp. 319-323;

1992, pp. 255-257
EMPR OF 1990-30; 1991-18; 1994-8
EMPR RGS 082L, 1976; 32, 1991
GSC MAP 7216G; 8501G
GSC MEM 296
GSC OF 637
GSC P 91-2, pp. 115-135

GSC P 91-2, pp. 115-135

DATE CODED: 1994/12/14 DATE REVISED: 1994/12/15 CODED BY: DEJ REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE069

NATIONAL MINERAL INVENTORY:

NAME(S): **PUTNAM CREEK** 

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L07W BC MAP:

NORTHING: 5584011 EASTING: 360840

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

305

LATITUDE: 50 23 30 N LONGITUDE: 118 57 28 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence #256 (Geological Survey of Canada Open File 637).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Glacial/Fluvial Gravels

LITHOLOGY: Gravel Sand

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Shuswap Highland

#### CAPSULE GEOLOGY

The Putnam Creek deposit is located on Putnam Creek, about 8 kilometres north of Lumby.

Bedrock in the area comprises volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. These have been intruded by granitic rocks of the Jurassic Nelson Intrusions.

Gravels in the vicinity of this creek are extensive. Gold is sparse in the surface slaty gravels, but is reported to be more abundant in the underlying reddish gravels of schistose and gneissic materials. The gold is heavy, well-rounded and is associated with black sand. "Interesting" values were reported from several shallow pits.

In 1936, 155 grams of gold is recorded as production from Putnam Creek (Bulletin 28, page 63).

No other information is available.

### **BIBLIOGRAPHY**

EMPR AR 1936-D48

EMPR BULL \*28, pp. 62-63 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991

GSC MAP 7216G; 8491G GSC MEM \*296, p. 138 GSC OF \*637(#256); 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/20 CODED BY: GSB REVISED BY: DEJ

MINFILE NUMBER: 082LSE069

FIELD CHECK: N

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE070

NATIONAL MINERAL INVENTORY:

NAME(S): **AMF**, AMF 3

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Slocan

NTS MAP: 082L08E BC MAP: LATITUDE: 50 26 33 N

UTM ZONE: 11 (NAD 83) NORTHING: 5588323 EASTING: 427968

PAGE:

REPORT: RGEN0100

306

LONGITUDE: 118 00 52 W ELEVATION: 1128 Metres

LOCATION ACCURACY: Within 500M

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite **Bornite** 

COMMENTS: Location of sample 387-9 (Assessment Report 20539).

ALTERATION: Silica ALTERATION TYPE: Silicific'n Chlorite

Chloritic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive

CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER Kootenay Assemblage STRATIGRAPHIC AGE GROUP **FORMATION** Proterozoic-Paleoz.

LITHOLOGY: Amphibolite

Quartz Monzonite Pegmatite Schist Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Kootenay

CAPSULE GEOLOGY

The AMF showing is located on the northwest side of Upper Arrow Lake about 56 kilometres south of Revelstoke, southeast of and adjoining the Big Ledge property (082LSE012).

The claims were staked in 1989 and in 1990; geological mapping and geochemical and geophysical surveys were conducted.

The area is underlain by metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage near the southern contact of the Thor-Odin gneiss dome. Locally, the metamorphic rocks comprise rusty-weathering schists, gneisses and amphibolites.

The metamorphic rocks contain various concentrations of disseminated pyrrhotite and/or pyrite and often minor amounts of chalcopyrite and/or bornite. Mineralized zones commonly exhibit strong chloritization.

A silicified amphibolite overlain by pegmatites and leucocratic, lineated quartz monzonite occurs along the eastern claim boundary. The dark green amphibolite hosts semi-massive chalcopyrite, bornite, pyrite and pyrrhotite. A sample of silicified amphibolite containing 10 to 15 per cent chalcopyrite, bornite, pyrite and pyrrhotite assayed 1 gram per tonne silver, 0.0991 per cent copper and 8.06 per

cent iron (#387-9, Assessment Report 20539).

About 3 kilometres to the northwest another chalcopyrite showing was not assayed. It is believed that these showings indicate the downdip extension of the Big Ledge horizon.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*20539 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1988-26; 1990-30 EMPR RGS 082L, 1976; 32, 1991 GSC BULL \*195 GSC MAP 7216G; 8492G GSC MEM 296 GSC OF 637; 658 GSC P 64-1; 65-1; 91-2, pp. 115-135

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Abraham, B. (1967): Metamorphic Petrology of the Big Ledge Property, near Upper Arrow Lake, British Columbia; BSc. thesis, University of British Columbia, Vancouver, British Columbia, 60 pages CJES Vol. 26, No. 2

DATE CODED: 1994/12/28 CODED BY: DEJ FIELD CHECK: N DATE REVISED: 1994/12/28 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 082LSE070

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE071

NATIONAL MINERAL INVENTORY:

NAME(S): PUTNAM

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L07W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

308

LATITUDE: 50 22 40 N LONGITUDE: 118 57 55 W ELEVATION: 1036 Metres

NORTHING: 5582481 EASTING: 360266

LOCATION ACCURACY: Within 500M

COMMENTS: Location of quartz vein containing galena (Assessment Report 13311).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

Calcite

ALTERATION: Pyrite ALTERATION TYPE: Pyrite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Shear Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Triassic-Jurassic Nicola **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartzite

Gneiss Argillite Phyllite Siltstone Andesite Greenstone Granodiorite Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Shuswap Highland

**CAPSULE GEOLOGY** 

The Putnam showing is located south of Putnam Creek, about 15 kilometres north of Lumby.
In 1984, a regional reconnaissance geochemical survey was

carried out by Brican Resources. In 1985, detailed geological and geochemical evaluations were conducted.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise banded quartzite/gneiss, argillite, phyllite with interbedded siltstone and quartzite, augite andesite, greenstone which are intruded by granodiorite and aplite dikes.

A main fault zone trends northwest across the northeastern corner of the property. Augite andesite within the fault zone has been sheared, bleached and pyritized.

Quartz and quartz calcite veins are associated with other faults and fault zones on the property. A vein in the southwestern corner of the property contains minor amounts of galena. Rock samples from the property assayed low in gold and silver (Assessment Report 13311).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13311 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257 EMPR OF 1991-18; 1994-8 EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

GSC OF 637; 658 GSC P 91-2, pp. 115-135

MINFILE NUMBER: 082LSE071

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

CJES Vol. 26, No. 2

 DATE CODED: 1985/07/24
 CODED BY: GSB

 DATE REVISED: 1994/12/28
 REVISED BY: DEJ

MINFILE NUMBER: 082LSE071

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FIELD CHECK: N FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE072

NATIONAL MINERAL INVENTORY:

NAME(S): **BRIAN**, LARRY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L07W BC MAP: LATITUDE: 50 23 31 N

NORTHING: 5584000

PAGE:

REPORT: RGEN0100

310

LONGITUDE: 118 56 07 W ELEVATION: 790 Metres

EASTING: 362440

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond drillhole TV 1 (Assessment Report 13660).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Pyrite

Graphite Calcite

Graphite

ALTERATION: Pyrite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

**Epigenetic** 

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP** 

Nicola

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Graphitic Phyllite Pyritic Phyllite Tuffaceous Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Shuswap Highland

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Drill Core

<u>GRA</u>DE

COMMODITY

Gold

2.4900 Grams per tonne

COMMENTS: Drill intersection, 60 centimetres, of tuffaceous phyllite containing

calcite veins.
REFERENCE: Assessment Report 13660.

**CAPSULE GEOLOGY** 

The Brian showing is located south of Putnam Creek, just west of Trinity Valley and about 17 kilometres north of Lumby.

In 1985, mapping, sampling and 1 diamond drillhole were

completed.

The area is underlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. Locally, these

comprise phyllite and schist.

Rusty weathering exposures of graphitic and pyritic phyllites and schists on the west side of Trinity Valley road were sampled. Several selected grab samples of the more gossanous material assayed up to 3 grams per tonne gold (Assessment Report 13660).

The diamond drillhole intersected black, tuffaceous phyllite containing calcite veins. One 60 centimetre interse 2.49 grams per tonne gold (Assessment Report 13660). One 60 centimetre intersection assayed

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13660

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54; 1992, pp. 255-257

EMPR OF 1991-18; 1994-8

EMPR RGS 082L, 1976; 32, 1991 GSC MAP 7216G; 8491G

GSC MEM 296

MINFILE NUMBER: 082LSE072

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637; 658 GSC P 91-2, pp. 115-135 CJES Vol. 26, No. 2

DATE CODED: 1985/07/24 DATE REVISED: 1994/12/28 CODED BY: GSB REVISED BY: DEJ

FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW001

NATIONAL MINERAL INVENTORY: 082L3 Fsp1

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5565172 EASTING: 323000

REPORT: RGEN0100

312

NAME(S): **GREEN GABLES MAIN**, WHITEMAN CREEK FLUORITE, BURSARY MOUNTAIN FLUORITE, VIEW GROUP, LAKEVIEW, FLUORITE,

SPARITE, SPAR, JAC, AH, QUARTZ REEF, REEF,

MINING DIVISION: Vernon

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W

BC MAP:

LATITUDE: 50 12 44 N LONGITUDE: 119 28 51 W

ELEVATION: 560 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The main showings (Assessment Report 3393).

COMMODITIES: Fluorite

**MINERALS** 

SIGNIFICANT: Fluorite

ASSOCIATED: Quartz

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Mesozoic-Cenozoic

Kaolin

Limonite Argillic

Oxidation

DEPOSIT

CHARACTER: Stockwork Vein

CLASSIFICATION: Hydrothermal Epigenetic Industrial Min.

TYPE: I11 E SHAPE: Irregular Barite-fluorite veins

MODIFIER: Fractured

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP

Tertiary

Middle Jurassic

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal Unnamed/Unknown Informal

LITHOLOGY: Quartz Monzonite

Feldspar Porphyry Dike

HOSTROCK COMMENTS: Quartz monzonite of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks Harper Ranch PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The Green Gables Main showing is located 16 kilometres west-southwest of Vernon, between lower Whiteman Creek and Okanagan Lake. In the area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Feldspar porphyry dikes, of possible Tertiary age, cut the granitic rocks. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary

rocks

Middle Jurassic quartz monzonite and, to a much lesser degree, later feldspar porphyry dikes host fluorite mineralization. Silica and clay alteration of the intrusive rocks, along with iron and manganese staining, has occurred in zones of fracturing. In the altered zones, fluorite occurs as: lenses and irregular masses in irregular, drusy quartz veins; thin veins; and as films on fracture planes. The fracture-fillings and veins generally range from 1 to 10centimetres thick. The coarsely crystalline fluorite is usually pale green with occasional white, yellow or purple varieties. The showings seem to be associated with a general north-south fracture zone. Fluorite masses, up to 25 by 45 centimetres, are reported.

In 1963-64, trenching was carried out on the property. In 1966, Canex Aerial Exploration Ltd. carried out trenching and drilling. In 1968, Kelver Mines Ltd. conducted geological mapping, trenching and drilling and Cerro Mining Company of Canada Ltd. conducted geological mapping and a hydro-geochemical survey in 1971. The general area was explored for gold mineralization in the 1980s.

MINFILE NUMBER: 082LSW001

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

EMPR AR 1947-212; 1954-65; \*1966-265,266; \*1967-303,304,305; 1968-299,300

EMPR ASS RPT \*3393, \*14308, 18736

EMPR EXPL 1985-C88,89

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363, \*479

EMPR GEM 1971-461

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30, \*1992-16, p. 41

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1712A

GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GCNL #124, 1992

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW002

NATIONAL MINERAL INVENTORY:

NAME(S): **NOVA**, NOVA 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

314

LATITUDE:

NORTHING: 5548606 EASTING: 327603

LONGITUDE: 119 24 32 W ELEVATION: 390 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing on the Nova 2 claim (Assessment Report 1208).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

ALTERATION: Clay ALTERATION TYPE: Argillic MINERALIZATION AGE: Tertiary

**DEPOSIT** 

Disseminated Vein

CHARACTER: Shear CLASSIFICATION: Hydrothermal Porphyry SHAPE: Irregular

MODIFIER: Fractured DIMENSION: Sheared STRIKE/DIP: 070/ TREND/PLUNGE:

COMMENTS: Mineralized zone, 75 metres wide, dips moderately to the south.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Eocene Coryell Intrusions Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Rhyolitic K-Feldspar Porphyry

Rhyolite Porphyry

Rhyolite

Spherulitic and miarolitic sub-volcanic porphyry intrudes granitic HOSTROCK COMMENTS:

rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Undivided Metamorphic Assembl.

COMMENTS: Occurrence is at the Intermontane/Omineca boundary.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1967 Assay/analysis

SAMPLE TYPE: Chip COMMODITY Molybdenum

Per cent

COMMENTS: Chip sample is across 12 metres. REFERENCE: Assessment Report 8922.

CAPSULE GEOLOGY

The Nova showing is located 25 kilometres southwest of Vernon on

the west shore of Wood Lake.

A rhyolitic porphyry of the Eocene Coryell Intrusions intrudes Middle Jurassic porphyritic quartz monzonite of the informally named Terrace Creek batholith. Spherulitic and miarolitic textures in the porphyry indicate a high level of intrusion. These cut metamorphic porphyry indicate a high level of intrusion. These cut metam rocks of the Shuswap Terrane and are overlain with patches of Penticton Group volcanic rocks. The Okanagan Valley fault zone is centered along Wood Lake.

The fine-grained, moderately fractured K-feldspar porphyry hosts possibly Eocene, molybdenum mineralization. Molybdenite and pyrite occur in fractures, shears and sheared quartz veinlets in argillized rhyolite. This mineralized zone is at least 75 metres wide and strikes 070 degrees with a moderate southerly dip. Assay values range from 0.56 per cent molybdenite over 0.9 metres to 0.023 per cent molybdenum over 12 metres (Assessment Report 8922).

In 1968, Agricola Mines Ltd. carried out geological mapping and

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

soil sampling.

**BIBLIOGRAPHY** 

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EMPR ASS RPT \*1208, 1209, 1694, 1817, \*8922
EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM 1969-357 EMPR GEM 1969-357
EMPR MAP 7216G, 8512G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 1712A
GSC MEM 296
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW003

NATIONAL MINERAL INVENTORY:

NAME(S): TICK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L03W BC MAP:

LATITUDE: 50 04 04 N LONGITUDE: 119 25 57 W ELEVATION: 480 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Chip sample (Assessment Report 1694).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Tertiary

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry TYPE: L03 Alkali

Alkalic porphyry Cu-Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Focene

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Corvell Intrusions

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5549001

EASTING: 325924

REPORT: RGEN0100

316

Unnamed/Unknown Informal

Middle Jurassic

LITHOLOGY: K-Feldspar Porphyry

Rhyolitic Porphyry Quartz Monzonité

HOSTROCK COMMENTS:

Porphyry reported to intrude granitic rocks of the informally named

Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Undivided Metamorphic Assembl.

COMMENTS: Near the Intermontane/Omineca boundary.

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

CATEGORY: Assav/analysis

SAMPLE TYPE: Chip

YEAR: 1968

COMMODITY Molybdenum GRADE 0.0200

COMMENTS: Grade is for molybdenite in a 5-metre sample.

REFERENCE: Assessment Report 1694.

**CAPSULE GEOLOGY** 

The Tick showing is located 25 kilometres southwest of Vernon,

between Wood and Okanagan lakes.
Rhyolitic porphyry of the Eocene Coryell Intrusions intrudes Middle Jurassic porphyritic quartz monzonite of the informally named Terrace Creek batholith. Spherulitic and miarolitic textures in the porphyry indicate a high intrusion level. The intrusions cut metamorphic rocks of the Shuswap Terrane and are overlain with

patches of volcanic rocks of the Eocene Penticton Group.

The K-feldspar porphyry hosts Tertiary, possibly Eocene, molybdenum mineralization. A 5-metre chip sample assayed 0.02 per cent molybdenite (Assessment Report 1694).

In 1968, Agricola Mines Ltd. carried out geological mapping and coil campling

soil sampling.

**BIBLIOGRAPHY** 

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EMPR GEM 1969-278 EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MAP 1712A

MINFILE NUMBER: 082LSW003

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: N

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MINFILE NUMBER: 082LSW003

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW004

NATIONAL MINERAL INVENTORY: 082L6 Cu1

PAGE:

NORTHING: 5575766

**EASTING: 324224** 

REPORT: RGEN0100

318

NAME(S): GOODENOUGH CENTRAL, PORTEOUS, GALE, COPPER KEY, QUEEN, SUPER, NOVA, GEM, WIN ART, BR, HUGAL, PHOENIX, ROSSLAND, VIOLET, IRON QUEEN,

COPPER QUEEN

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 18 28 N LONGITUDE: 119 28 07 W

ELEVATION: 870 Metres LOCATION ACCURACY: Within 500M Metres

COMMENTS: Centre of the workings area (Assessment Report 6404).

COMMODITIES: Copper Gold Iron Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Magnetite **Bornite** Chalcocite Galena ASSOCIATED: Quartz Calcite

Pvrite Hematite ALTERATION: Epidote Chlorite

COMMENTS: Calc-silicates are associated with the mineralization.

ALTERATION TYPE: Skarn MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Skarn Massive Podiform Disseminated

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au COMMENTS: The mineralized zone is 1 to 7 metres thick.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Calc-silicate Skarn Andesite Tuff

Volcaniclastic Skarn Cherty Tuff Diorite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic. The plutonic rocks

are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Harper Ranch PHYSIOGRAPHIC AREA: Thompson Plateau

METAMORPHIC TYPE: Contact RELATIONSHIP: Regional GRADE: Hornfels Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1988 Assay/analysis

SAMPLE TYPE: Drill Core

**COMMODITY GRADE** 

Gold 0.6000 Grams per tonne Copper 0.6000 Per cent

COMMENTS: Highest values from drillcore samples. Copper value from 7 metre

intersection.

REFERENCE: Assessment Report 18179.

CAPSULE GEOLOGY

The Goodenough Central prospect is located 15 kilometres west-

northwest of Vernon, north of Naswhito Creek.

In the area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic These units are intruded by Middle Jurassic granitic rocks of

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

the informally named Terrace Creek batholith. Eccene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Altered andesite tuff and cherty tuff of the Harper Ranch Group and diorite host copper, gold and iron mineralization. Most of the mineralization occurs in a calc-silicate altered andesite tuff and comprises stratabound massive to semi-massive lenses of magnetite with disseminated blebs of chalcopyrite and pyrite. Minor bornite, chalcocite, galena and hematite have also been reported. The mineralization, 1 to 7 metres thick, occurs in a tightly folded volcaniclastic horizon. Chlorite, epidote alteration and quartz-calcite veining are common.

Samples from the surface assayed up to 1.45 per cent copper over about 7 metres, although the average grade is significantly lower (Assessment Report 6404). Drill core samples assayed up to about 0.6 per cent copper over about 7 metres; the highest gold value from the skarn zone was 0.6 gram per tonne (Assessment Report 18179).

The diorite is commonly sericitized, silicified and, where proximal to the calc-silicate mineralization, hosts minor disseminated and veined pyrite and chalcopyrite. Copper mineralization is also present in chert or cherty volcaniclastic rocks.

The first reference to the deposit is from 1899; by 1904 there were 8 shafts with depths totalling 47 metres. In 1928-29, Okanagan Copper Co. completed 75 metres of underground workings.

In 1956, New Jersey Zinc Co. carried out a magnetometer survey and stripping. In 1962, Highland Valley Mining Corp. drilled the occurrence. In 1963-64, Empire Development Co. Ltd. conducted geological mapping, soil geochemistry, drilling and magnetometer and self-potential surveys.

In 1969-75, Hudson Bay Exploration and Development Co. Ltd. carried out an induced polarization survey and drilling. In 1977-78, Cominco Ltd. carried out geological mapping and magnetometer and induced magnetometer surveys.

In 1985-88, Brican Resources Ltd. conducted trenching and drilling programs.

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 \*1921-191: 1923-161; 1924-140; \*1929-247; 1930-208; 1962-66,104

EMPR ASS RPT 2042, \*6404, 6947, \*18179

EMPR EXPL 1977-E80; 1978-E95; 1988-C56

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPL GEM 1969-299,357

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR PF (Gaul, A.J. (1929): Report of Examination of Goodenough Group; Geological Plan of Workings and Drillholes, Cons. Woodgreen Mines Ltd., 1962; Drillhole sections, drillhole logs and assay plan Cons. Woodgreen Mines Ltd., 1963; In 082LSW General - Claim Map, 1966; Barker, R.M. (1990): Draft Property Description)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 144

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT \*1931A, p. 91-92

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

MINFILE NUMBER: 082LSW004

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW005

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

320

NAME(S): DOBBIN, ALFY, BEAR, POP, CHARLIE, NIGHT OWL, BARD, DOBBIN COPPER, TAD 3,

TAD 4, ALOCIN, FLIP

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 00 10 N NORTHING: 5542639 EASTING: 300910

LONGITUDE: 119 46 42 W ELEVATION: 1740 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the mineralized zone (Assessment Report 5568).

COMMODITIES: Copper Silver Palladium Molybdenum Platinum

Iridium

**MINERALS** 

SIGNIFICANT: Chalcopyrite Molybdenite Pvrite Bornite COMMENTS: Molybdenite is associated with a dike cutting the pyroxenite.

ASSOCIATED: Magnetite ALTERATION: Chlorite Pvrite **Epidote** Albite Calcite

Malachite Azurite ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Jurassic

DEPOSIT

CHARACTER: Disseminated Vein

CLASSIFICATION: Porphyry
TYPE: L03 Alkalic porphyry Cu-Au

DIMENSION: 120 x 30 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Surface dimensions of the main showing.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Pyroxenite

Hornblende Pyroxenite Biotite Pyroxenite Hornblende Gabbro Monzonite Quartz Diorite Dike

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1997

SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Copper 0.1900 Per cent Platinum 0.4100 Grams per tonne Palladium 0.3520 Grams per tonne

COMMENTS: A 111-metre intersection. REFERENCE: GCNL #223 (Nov.20), 1997.

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1972

> SAMPLE TYPE: Drill Core **COMMODITY GRADE**

0.3000 Per cent Copper Palladium 0.2700 Grams per tonne 0.3900 Grams per tonne

Copper grade is from a 122-metre drill intersection.
Platinum and palladium values are average of 6 rocks from 1977. COMMENTS:

REFERENCE: Assessment Reports 5341, 6732.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

The Alfy prospect is located  $24\ \text{kilometres}$  northwest of Kelowna, west of Whiterocks Mountain.

The area is underlain by argillaceous rocks, basalt tuffs and flows, and minor rhyolite and limestone of the Devonian to Triassic Harper Ranch Group. These rocks are intruded by Middle Jurassic ultramafic/monzonite and calc-alkaline complexes of the informally named Terrace Creek batholith. The diverse ultramafic/monzonite complex comprises hornblende gabbro, quartz monzonite, mafic monzonite, porphyritic monzonite, biotite pyroxenite and hornblende pyroxenite.

At the prospect, a northeast-trending hornblende pyroxenite plug hosts alkaline porphyry-type mineralization consisting of copper, platinum, palladium and silver. Pyrite, magnetite and chalcopyrite occur as disseminations in pyroxenite and in epidote-albite veinlets in hornblende and biotite pyroxenites, gabbro and, to a lesser extent, monzonite. Bornite, malachite and azurite have been reported and chlorite alteration is present. The central pyroxenite-hosted mineralization covers a 120 by 30 metre area, with surrounding mineralization covering a 400 by 200 metre area. Pyrite and chalcopyrite mineralization in pyroxenite and gabbro also occurs 600 and 900 metres to the north.

Copper can average about 0.3 per cent over 100 metres with platinum and palladium averaging 0.3 to 0.4 gram per tonne in some rock samples (Assessment Report 5341, 6732). Low silver values of about 3 grams per tonne have been reported.

Molybdenite mineralization occurs in quartz veinlets and

Molybdenite mineralization occurs in quartz veinlets and fractures in quartz diorite dikes which cut the ultramafic/monzonite complex.

The area was staked in 1967 by A. Brewer. In 1968, I. Greg and G. Shell drilled the property and Texas Gulf Sulphur drilled the northern showings. In 1969-70, Atlas Exploration carried out a program of geological mapping, soil geochemistry, drilling and magnetometer and induced polarization surveys. Geoquest Resources Ltd. drilled the property in 1972. In 1974-76, Rockel Mines Ltd. carried out geological mapping, trenching and drilling. Cominco carried out geological mapping, magnetometer, induced polarization and drill programs in 1977-79.

Verdstone Gold Corp. and Molycor Gold Corp. drilled the property in 1997. A 111-metre intersection assayed 0.19 per cent copper, 0.410 grams per tonne platinum and 0.352 grams per tonne palladium, within which was 15 metres of 0.54 per cent copper, 1.316 grams per tonne platinum and 0.949 grams per tonne palladium (GCNL #223 (Nov.20), 1997). A 9-metre composite sample from another hole assayed 0.11 grams per tonne iridium (Exploration in BC 1997, page 40).

#### **BIBLIOGRAPHY**

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EMPR ASS RPT *2255, *5341, *5568, *6732, *7269, *8456, 17700, 18985,
20269, 20830, *25290
EMPR EXPL 1975-E52; 1976-E54,55; 1977-E79,80; 1978-E93; 1979-9,101
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363; 2000, pp. 191-222,
   223-230
EMPR GEM 1969-300; 1970-406; 1974-89; 1997-40
EMPR MAP 5207G, 7216G
EMPR RGS 1976
GSC MAP 1712A
GSC MEM 296
GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GCNL #115(June 16), #137(Jul.17),#140(Jul.22),#144(Jul.28),

#147(Jul.31), #150(Aug.6),#157(Aug.15),#160(Aug.20),

#177(Sept.15),#181(Sept.21), #196(Oct.10), #216(Nov.10),
    #223(Nov.20), 1997; #214(Nov.8), 2000
PR REL Verdstone Gold Corporation, June 12, July 14, 20, Aug.1, 11, Sept. 10, Nov. 6, 18, 1997
WWW http://www.verdstonegroup.com/verdstone
Chevron File
```

DATE CODED: 1985/07/24 DATE REVISED: 1997/08/27 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW006

NATIONAL MINERAL INVENTORY:

NAME(S): **EIN**, SWEETBRIDGE, MO

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 26 22 N LONGITUDE: 119 25 31 W ELEVATION: 850 Metres

NORTHING: 5590303 EASTING: 327787

ELEVATION: 850 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of the claims, in an area of EM conductors (Assessment Report

1572).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite
ASSOCIATED: Pyrite
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE G Triassic-Jurassic N

GROUP Nicola FORMATION Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Andesite

Hornblende Talc Schist

Phyllite

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional

RPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

GRADE: Greenschist

### **CAPSULE GEOLOGY**

The Ein showing is located 22 kilometres northwest of Vernon, on the steep slopes south of the Salmon River.

In the area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact, to the north, with Cambro-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south, the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granodiorite plugs intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

Hornblende-talc schist, phyllite, argillite and andesite of the Nicola Group underlie the property. Some of these units host copper mineralization comprising pyrite and rare chalcopyrite.

In 1968-69, Noranda Exploration Co. Ltd. carried out electromagnetic, magnetometer and trenching programs. In 1981, Noranda conducted an airborne electromagnetic and magnetic survey.

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EMPR ASS RPT \*1572, 10516
EMPR EXPL 1981-314
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
EMPR GEM 1969-239
EMPR MAP 7216G, 8513G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 1712A
GSC MEM 296
GSC OF 637 (Map C), 736, 2167

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW007

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

324

NAME(S): BLACK HAWK, BLACKHAWK, PEOITCH, BJ, AU

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 25 22 N
LONGITUDE: 119 22 19 W
ELEVATION: 1100 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: The East showing (Assessment Report 2516). NORTHING: 5588328 EASTING: 331514

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Chalcopyrite Galena

ASSOCIATED: Quartz Arsenopyrite Pyrrhotite Calcite Pyrite

Ankerite Chlorite

Chloritic

ALTERATION: Limonite Chlo
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Shear Breccia

CLASSIFICATION: Mesothermal

TYPE: 101 A SHAPE: Tabular Au-quartz veins

MODIFIER: Fractured Sheared

DIMENSION: 6 Metres STRIKE/DIP: 095/52S TREND/PLUNGE:

COMMENTS: Attitude of shear zone. The East Zone is 2 to 6 metres thick.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Andesitic Tuff

Hornblende Porphyry Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1976 CATEGORY: Assav/analysis

SAMPLE TYPE: Channel

COMMODITY Silver GRADE 12.1000 Grams per tonne

11.3000 Gold Grams per tonne

COMMENTS: Average from channel samples (average sample width 2.2 metres). REFERENCE: Property File - Gutrath, G., 1976.

CAPSULE GEOLOGY

The Black Hawk showing is located 19 kilometres north-northwest of Vernon, southwest of Spallumcheen Lake.

In the area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south, the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granodiorite plugs intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the

A quartz-veined and brecciated shear zone within Nicola Group andesitic tuff and hornblende porphyry andesite hosts gold, silver, zinc, copper and lead mineralization. The shear zone strikes 095 degrees and dips 52 degrees south.

The East Showing, between 2 and 6 metres thick, has a general

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

east-west strike, a moderate southerly dip and is traceable on surface for about 45 metres. Mineralization includes fine-grained, disseminated to semi-massive pyrite, pyrrhotite, arsenopyrite, variable sphalerite and minor chalcopyrite and galena. Sulphide content averages about 15 per cent. Some shattered quartz-calcite veins also occur within the chloritized shear zone. The average assay from channel sampling was 11.3 grams per tonne gold and 12.1 grams per tonne silver across 2.2 metres (Property File - Gutrath, 1976).

The West Showing is about 350 metres to the west and has similar mineralization. A 1 to 2-metre thick quartz vein strikes easterly in sheared and altered volcanic rocks. The vein and adjacent country rock carry fine-grained, disseminated pyrite, arsenopyrite and chalcopyrite. A chip sample across 1.2 metres of sheared footwall assayed 16 grams per tonne gold (Property File - Gutrath, 1976). Samples from the vein assayed 0.7 to 1.03 grams per tonne gold (Property File - Gutrath, 1976). A quartz-ankerite vein in the vicinity of the West showing assayed 20.8 grams per tonne gold (George Cross Newsletter June 24, 1988).

The Quartz showing, whose location is uncertain but may be 300 metres west of the West showing, reported assays of 4.6 grams per tonne gold over 2 metres (George Cross Newsletter June 24, 1988). The showing is a 3-metre zone of quartz veining which includes a 1-metre thick fractured vein striking 140 degrees and dipping 80 degrees east. The zone, with sparse or absent sulphides, occurs in a 15 metre thick zone of ankeritic carbonate-altered volcanics.

By 1902, a 3-metre shaft and a 67-metre tunnel were completed. By 1919, 2 tunnels had been extended to 130 metres. In 1969, Coin Canyon Mines Ltd. conducted geological mapping, soil geochemistry and trenching programs. In 1973-87, Keda Resources Ltd. and its associated companies carried out geological mapping, soil geochemistry, trenching, VLF-EM and induced polarization surveys, trenching and drilling.

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EMPR EXPL 1976-E55; 1977-E80,81; 1979-104; 1983-147; 1986-C102

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM 1969-239; 1973-100

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR RGS 1976

EMPR PF (In 082LSW General - Claim Map, 1966; *Gutrath, G., (1976): Report on the Au claim group: In 082LSW052 - Keda Resources Ltd. Prospectus Feb. 1977; Antelope Resources Inc. Filing Statement, Feb. 1989; *Barker, R.M. (1990): Draft Property Description)

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 141

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT *1931A, p. 75,80

GCNL *June 24, 1988
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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW008

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5573021 EASTING: 344830

REPORT: RGEN0100

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 $\label{eq:name} \mbox{NAME}(S): \ \, \frac{\mbox{MOUNT VERNON}}{\mbox{VI, DCK, NOMAD}}, \mbox{SILVER STREAK, PROCTER,} \\ \mbox{}$ 

STATUS: Past Producer Open Pit MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06E

BC MAP:

LATITUDE: 50 17 20 N LONGITUDE: 119 10 42 W ELEVATION: 1070 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Area of workings (Assessment Report 5830).

COMMODITIES: Silver 7inc Gold Lead

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Pyrite MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal TYPE: I05 Polyr

Polymetallic veins Ag-Pb-Zn±Au 1.03 Alkalic porphyry Cu-Au

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Carbonaceous Argillite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The Mount Vernon showing is located 7 kilometres east-northeast of Vernon, north of Vernon Hill.

This area, east of the Okanagan Valley fault, is underlain by Upper Triassic to Lower Jurassic Nicola Group which unconformably overlies the Devonian to Triassic Harper Ranch Group. These Paleozoic and Mesozoic units overlie and are in probable fault contact with gneissic rocks of unknown age and metasedimentary rocks of the Proterozoic Silver Creek Formation. Middle Jurassic granitic rocks cut all of the above rocks. Outliers of Eocene Kamloops Group

volcanic and sedimentary rocks cap the older units.

Quartz veins in Nicola Group carbonaceous argillites host silver, lead, zinc and gold mineralization. Narrow discontinuous quartz veins, up to about 1 metre thick, contain knots and blebs of galena and lesser blebs of sphalerite. In 1950 and 1969, two shipments, totalling 64 tonnes, reported grades of 190 grams per tonne silver, 3.8 per cent lead, 0.8 per cent zinc and 2 grams per tonne gold. In 1968-74, King Graybarr Mines Ltd. carried out trenching,

geological mapping, airborne magnetometer and drilling programs. 1975, Canadian Superior Exploration Ltd. conducted geological mapping and drilling. Murray Ranking Developments Ltd. carried out trenching in 1978.

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EMPR ASS RPT 2000, \*5003, 5432, \*5830, \*12097

EMPR BC METAL MM00434, MM00429

EMPR EXPL 1975-E53, 1978-E95,96; 1983-146 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR GEM 1969-298,429; 1971-432,433; 1972-80; 1973-101; 1974-90

EMPR INDEX 3-206

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR RGS 1976

EMPR PF (In 082LSW General - Claim Map, 1966; Working Maps from Canadian Superior 1970-1975; King Greybarr Mines Ltd., Prospectus, 1970; Selnes, W.E. (1971): Supplemental Report to Accompany

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Preliminary Report on the Vernon Hill claims; Notices of Work, May and July, 1975; Assay Results, Canadian Superior, 1975; Kandahar Resources Ltd., Statement of Material Facts, Aug. 1976)
GSC MAP 1712A
GSC MEM 296
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GCNL #156, #200, 1976

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW009

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5545109

EASTING: 300165

REPORT: RGEN0100

328

NAME(S): TADPOLE, DOBBIN, NIGHT OWL, BARD, ALFY, BEAR, TAD 1, TAD

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L04W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 01 29 N LONGITUDE: 119 47 24 W ELEVATION: 2030 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the mineralized zone (Assessment Report 7596).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz ALTERATION: Chlorite Pyrite K-Feldspar Séricite ALTERATION TYPE: Chloritic Potassic

MINERALIZATION AGE: Jurassic

DEPOSIT

CHARACTER: Stockwork Disseminated

CLASSIFICATION: Porphyry TYPF: 1.03

Alkalic porphyry Cu-Au STRIKE/DIP: DIMENSION: 800 x 600 Metres TREND/PLUNGE: COMMENTS: Maximum dimensions of the surface area of the molybdenum mineraliza-

tion.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Unnamed/Unknown Formation

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Porphyritic Quartz Monzonite

Quartz Monzonite Sediment/Sedimentary

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1979 Assav/analysis SAMPLE TYPE: Drill Core

COMMODITY Molybdenum Per cent

COMMENTS: Grade is from a 92-metre drill intersection.

REFERENCE: Assessment Report 8456.

CAPSULE GEOLOGY

The Tadpole showing is located 26 kilometres northwest of

Kelowna, at Tadpole Lake.

The area is underlain by Devonian to Triassic Harper Ranch Group argillaceous rocks, basalt tuffs and flows, and minor rhyolite and limestone. These are intruded by Middle Jurassic ultramafic/monzonite and calc-alkaline complexes of the informally named Terrace Creek batholith.

Molybdenum mineralization is hosted by a north-northwest trending composite plug, of calc-alkaline composition, about 1.5 by  $4\,$ kilometres in area. The plug consists of a porphyritic quartz monzonite core bordered by quartz monzonite. Within the por an irregular 800 by 1900 metre zone of chlorite and sericite Within the porphyry is alteration. A zone of molybdenum mineralization 200 to 600 metres wide by 800 metres long occurs within the altered zone. of quartz veinlets from 0.5 to 1 centimetre thick carries disseminated pyrite and molybdenite. Secondary K-feldspar and chlorite border the veinlets. The zone grades 0.030 to 0.054 per

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

cent molybdenum. Drilling samples assayed up to 0.195 per cent molybdenum over 3 metres (Assessment Report 8456). The best drillhole sample averaged 0.044 per cent molybdenum over 92 metres (Assessment Report 8456). The mineralized zone is open to depth and has a shallow plunge to both the north and south.

In 1967, Phelps Dodge Corporation carried out soil geochemistry. In 1968-69, Texas Gulf Sulphur Co. carried out a program of geological mapping, ground magnetometer, soil geochemistry and drilling. Between 1977 and 1980, Cominco carried out geological mapping, ground magnetometer, soil geochemistry, induced polarization and drill programs.

 $\label{thm:condition} \mbox{Verdstone Gold Corporation and Molycor Gold Corporation held} \\ \mbox{the property in 1997.}$ 

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EMPR ASS RPT 1896, \*7269, \*7596, \*8456, 8664

EMPR EXPL 1978-E93, 1979-9,101

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363; 2000, pp. 191-222

EMPR GEM 1969-299,300;

EMPR MAP 5207G, 7216G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966; Summary of Drilling on Dobbin Property, Cominco, 1980)

EMPR RGS 1976

GSC MAP 1712A

GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GCNL #186 (Sept.26), 1997

PR REL Verdstone Gold Corporation, Sept.24, 1997

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW010 NATIONAL MINERAL INVENTORY: 082L6 Phs1

NAME(S): SILVER QUEEN (L. 1182), SILVER STAR

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L06E UTM ZONE: 11 (NAD 83) BC MAP:

NORTHING: 5582136 EASTING: 353616 LATITUDE: 50 22 23 N LONGITUDE: 119 03 31 W ELEVATION: 1820 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Old workings visible on air photos.

COMMODITIES: Silver 7inc Gold Copper I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Chalcopyrite

Pyrite MINERALIZATION AGE: Mesozoic-Cenozóic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au 116 Unconformity-associated U

DIMENSION: STRIKE/DIP: 070/50S TREND/PLUNGE:

COMMENTS: Vein is 1.2 to 2.1 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Calcareous Argillite

Granite Dike Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1950 Assay/analysis

SAMPLE TYPE: Bulk Sample

COMMODITY **GRADE** 1197.5000 Silver Grams per tonne 18.2000 Per cent I ead

1.5500 Per cent 7inc COMMENTS: Grades are for recovered metals from a 2 tonne shipment in 1950.

REFERENCE: Minister of Mines Annual Report 1950, page 116.

**CAPSULE GEOLOGY** 

The Silver Queen showing is located 19 kilometres northeast of Vernon on Silver Star Mountain.

The area is underlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These are faulted over

metasedimentary rocks of the Proterozoic Silver Creek Formation.
Nicola Group calcareous argillite hosts mineralization in a 1.2 to 2.1 metre thick quartz vein in the axial plane of a minor fold. The footwall of the vein is argillite and the hangingwall is a granite dike(?). Galena, sphalerite, pyrite and chalcopyrite are present. The vein strikes 070 degrees and dips between 20 and 50 degrees south.

A sample from initial surface sampling in 1896 assayed 13.4 grams per tonne gold (\$8) and 83.6 grams per tonne silver (\$50) (Minister of Mines Annual Report 1896 page 579). Shipments in 1948 and 1950, totalling 3.4 tonnes, assayed 870 grams per tonne silver, 13 per cent lead and 1 per cent zinc.

Argentiferous galena also occurs in a 10 centimeter quartz stringer in quartzite.

Mineralization may be related to the major fault which separates the Nicola and Silver Creek rocks.

PAGE:

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Exploration, by an 8 metre shaft, was first reported in 1896. By 1902, two shafts were reported; 20 and 14 metres deep. In 1948 and 1950, 3.4 tonnes were shipped producing 2955 grams of silver, 444 kilograms of lead, and 49 kilograms of zinc.

#### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1993/03/31 REVISED BY: DISC

MINFILE NUMBER: 082LSW010

PAGE:

FIELD CHECK: N FIELD CHECK: Y

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW011

NATIONAL MINERAL INVENTORY:

NAME(S): MAY, BOP

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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BC MAP: LATITUDE: 50 25 52 N

NORTHING: 5589107 EASTING: 336219

MINING DIVISION: Vernon

LONGITUDE: 119 18 22 W ELEVATION: 720 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Old workings (Assessment Report 17371).

COMMODITIES: Gold Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician GROUP Unnamed/Unknown Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Sicamous

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Sicamous is regionally metamorphosed to lower greenschist facies.

GRADE: Greenschist

CAPSULE GEOLOGY

The May showing is located 19 kilometres north-northwest of

Vernon, east of Round Lake.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks, and in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group to the south. Cretaceous granodiorite plugs intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

Sicamous argillaceous rocks host a quartz vein carrying "values in gold, silver and lead" (Geological Survey of Canada Summary Report 1931A).

By 1899, exploration included a 2 metre shaft and an 8 metre tunnel.

**BIBLIOGRAPHY** 

EMPR AR 1899-747 EMPR ASS RPT 17371

EMPR EXPL 1988-C56

pp. 55-58; 1988, pp. 355-363 EMPR FIELDWORK 1987,

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A GSC MEM 296, p. 146

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 77

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW012

NATIONAL MINERAL INVENTORY:

NAME(S): **GRAND TIMES (L. 1173)** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 22 35 N LONGITUDE: 119 28 59 W ELEVATION: 900 Metres NORTHING: 5583428 EASTING: 323450

LOCATION ACCURACY: Within 500M COMMENTS: Centre of Lot 1173.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic

GROUP Nicola

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

GRADE: Greenschist

TERRANE: Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP:

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

CAPSULE GEOLOGY

The Grand Times showing is located 19 kilometres northwest of

Vernon, west of Banks Creek.

Sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Middle Jurassic granitic rocks intrude the Nicola and Harper Ranch. Outliers of Eocene Kamloops Group volcanic rocks are present.

A quartz vein in Nicola Group sedimentary rocks hosts free-

milling native gold.

By 1899, a 55-metre tunnel had been completed. In the 1980s, various operators explored the area around this occurrence.

**BIBLIOGRAPHY** 

EMPR AR \*1898-1129; \*1899-747

EMPR ASS RPT 10031, 14305, 15535, 18336

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW013

NATIONAL MINERAL INVENTORY:

NAME(S): **SKOOKUM**, ONA

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L06W

BC MAP: LATITUDE: 50 21 15 N

LONGITUDE: 119 23 42 W ELEVATION: 1160 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Area of workings (Assessment Report 18860).

COMMODITIES: Silver Gold 7inc I ead Copper

**MINERALS** 

Sphalerite

Tetrahedrite

Chalcopyrite Gold

Disseminated

Underground

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5580752 EASTING: 329631

REPORT: RGEN0100

334

SIGNIFICANT: Galena ASSOCIATED: Quartz ALTERATION: Graphite

Pyrite Malachite

Sericite

Sericitic

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Mesothermal

Stockwork

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Sheared

COMMENTS: Main vein is up to 4 metres thick.

HOST ROCK

Triassic-Jurassic

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

<u>GROUP</u>

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Graphitic Phyllite

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Thompson Plateau

GRADE: Greenschist

TERRANE: Quesnel
METAMORPHIC TYPE: Regional RELATIONSHIP:
COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1988

SAMPLE TYPE: Channel COMMODITY Silver

GRADE 150,0000

Grams per tonne Grams per tonne

Gold

0.4000

COMMENTS: Grades are the average of 8 channel samples. REFERENCE: Assessment Report 17928.

CAPSULE GEOLOGY

The Skookum showing is located 13 kilometres northwest of Vernon on the north side of Newport Creek.

In the area, the Upper Triassic to Lower Jurassic Nicola Group is in probable unconformable contact with the Devonian to Triassic Harper Ranch Group. Middle Jurassic granitic rocks intrude these sedimentary and volcanic rocks. Outliers of Eocene Kamloops Group

volcanic rocks are present.

A shear zone and associated quartz vein within Nicola Group argillites and phyllites host silver, gold, lead, zinc and copper mineralization. A saccharoidal quartz vein, up to 4 metres thick; quartz stringers; quartz-filled tension gashes; and a graphitic shear zone host pyrite, galena, sphalerite, chalcopyrite, tetrahedrite and native gold. Some sericite alteration is associated with the quartz veining.

The highest values came from the main quartz vein; high grade samples, containing 30 to 40 per cent sulphides (mainly galena and tetrahedrite), assayed up to 10,998 grams per tonne silver (Assessment Report 17928). Selected samples assayed up to 3 per cent copper, 10 per cent lead and 7 per cent zinc (Assessment Report

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

17928). Small shipments, from 1936 to 1969, totalling 195 tonnes returned grades of about 430 grams per tonne silver and 6 grams per tonne gold. Systematic channel sampling averaged assays of 150 grams per tonne silver and 0.4 grams per tonne gold (Assessment Report 17928).

The occurrence was first described in 1930; by 1933 a 15-metre inclined shaft and 9 metres of drifts and crosscuts had been completed. Small shipments, totalling 195 tonnes, were reported from 1936 to 1969 producing 84,414 grams of silver, 1,182 grams of gold, 45 kilograms of copper and 315 kilograms of lead. In 1980, M. Boe conducted a drill program. In 1988, Canova Resources Ltd. carried out geological mapping, trenching and drilling.

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EMPR BC METAL MM00441

EMPR BULL *1932 No. 1, pp. 78,79

EMPR EXPL 1980-134; 1988-C56

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM 1969-429

EMPR INDEX 3-213

EMPR INF CIRC 1988-1, pp. 26,27

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR PF (Starr, C.C. (1939): Report on the Skookum Group of Claims, 4 p.; Sketch map showing main workings, 1939; in 082LSW General - Claim Map, 1966; *Barker, R.G. (1990): Draft Property Description)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 150

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT *1931A, pp. 78,86

GCNL Jun 16,Jul 27,Aug 17,Dec 1, 1988
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DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1993/03/31 REVISED BY: DISC

MINFILE NUMBER: 082LSW013

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FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

STRIKE/DIP:

/90

MINFILE NUMBER: 082LSW014

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5557361

EASTING: 316322

TREND/PLUNGE:

REPORT: RGEN0100

336

NAME(S): FINTRY POINT, SHORTS POINT, SHORT CREEK, EDWARD (L.5046), PERSEVERANCE (L.5047), L. 5049, SCOTTEY, GOLDEN HORSESHOE, LUMBER JACK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 08 24 N LONGITUDE: 119 34 14 W

ELEVATION: 850 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Centre of the surface trace of the wollastonite zone (Fieldwork 1988,

page 493).

COMMODITIES: Wollastonite **Building Stone** Limestone Marble

**MINERALS** 

SIGNIFICANT: Wollastonite ASSOCIATED: Quartz Calcite

ALTERATION: Wollastonite Garnet Diopside Prehnite

COMMENTS: Age of the formation of wollastonite. ALTERATION TYPE: Skarn

MINERALIZATION AGE: Jurassic

DEPOSIT

CHARACTER: Stratabound **Podiform** Stockwork Vein CLASSIFICATION: Skarn Igneous-contact Hydrothermal Industrial Min. Wollastonite skarn R09 Limestone

TYPE: K09 SHAPE: Tabular

MODIFIER: Fractured

DIMENSION: 850 x 500 x 50 Metres COMMENTS: Dimensions of skarn zone containing wollastonite.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> **FORMATION** 

Paleozoic-Mesozoic Harper Ranch Undefined Formation Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Wollastonite Skarn Marble Limestone Granodiorite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic and the limestone is

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> YEAR: 1989 CATEGORY: Assay/analysis

SAMPLE TYPE: Bulk Sample

**GRADE** COMMODITY

Wollastonite 70.8000 Per cent COMMENTS: Grades are from wollastonite concentrate, with 4.7 garnet and 24.5 per

cent silicates.

REFERENCE: Open File 1991-17, page 30.

CAPSULE GEOLOGY

The Fintry Point showing is located 26 kilometres west-southwest

of Vernon, on the steep north slopes of Shorts Creek valley.

Middle Jurassic granitic rocks intrude sedimentary and volcanics of the Devonian to Triassic Harper Ranch Group. Eocene

rocks of the Devonian to Triassic Harper Ranch Group.

Penticton Group volcanic and sedimentary rocks cover the older units. The Harper Ranch hosts wollastonite and limestone mineralization. Lenses, clusters and veinlets of wollastonite occur in a 800 by

500 by 50 metre bed of grey marble, forming up to 35 per cent of the rock, averaging about 25 per cent. The wollastonite zone, within a

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

grey to white marble unit, is parallel to and about 150 metres west of the contact of a granodiorite intrusion. Quartz, garnet, and minor diopside and prehnite are also reported. The wollastonite forms tough, massive aggregates of radial fibres, with fibre lengths up to 12 centimetres, averaging 2 to 3 centimetres. The 71 per cent wollastonite concentrate is too low grade for most industrial use, due to the presence of significant quartz content. In 1989, a 50 kilogram sample was submitted to CANMET for processing and analysis. The results are as follows:

SiO2 52.0 %
Al2O3 0.93%
Fe2O3 0.57%
CaCO3 16.4 %
MgO 1.01%
L.O.I.
Brightness 73.58%
Lightness 88.16%

White to grey to black, fine to medium-grained crystalline limestone outcrops immediately west of the skarn contact zone and west of the wollastonite zone. Remnant beds strike north and dip steeply east or west between 60 and 90 degrees. Interbedded black argillite and fine-grained sandstone with minor pockets of conglomerate are exposed at lower elevations. Several grab samples from a 30 to 100 metre wide zone of white, medium to fine-grained limestone adjacent to the granodiorite, averaged 97 per cent CaCO3, 1.8 per cent CaSiO3, 0.7 per cent muscovite and 0.5 per cent SiO2 (Hallisey, 1963).

Three tunnels were driven on the Scottey Group of mineral

Three tunnels were driven on the Scottey Group of mineral claims by 1939 which included the Golden Horseshoe, Perservance, Ivanhoe and Lumberjack claims.

A 21-metre tunnel was driven on one of several quartz veins in the vicinity. The veins are up to 1.2 metres in width. Assays of the quartz show traces of gold and silver (Starr, Property File). Another tunnel was driven about 4.5 metres crosscutting a quartz body and another 6-metre tunnel was driven on a limestone-granite contact.

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EMPR MAP 37, 5207G, 7216G
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EMPR P \*1989-1, p. 493
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Hallisey, R.S., (1963): \*Wollastonite, Its Occurrence, Production Uses, University of British Columbia Unpublished Bachelor of Applied Science Thesis

DATE CODED: 1988/11/21 CODED BY: GVW FIELD CHECK: Y DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW015

NATIONAL MINERAL INVENTORY:

Lead

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

7inc

NORTHING: 5580665 EASTING: 332377

REPORT: RGEN0100

338

NAME(S): OCTAGON, VERA 1-6, MAY, GOLDEN ZONE 1-3, GLORIA 1

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082L06W

BC MAP:

LATITUDE: 50 21 15 N LONGITUDE: 119 21 23 W

ELEVATION: 820 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Area of old workings (Assessment Report 17664).

COMMODITIES: Silver

Copper

**MINERALS** 

SIGNIFICANT: Galena Freibergite Sphalerite Chalcopyrite Argentite

Gold

Gold Pyrite

ASSOCIATED: Quartz ALTERATION: Azurite Málachite Sericite ALTERATION TYPE: Oxidation Sericitic

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Mesothermal

Polymetallic veins Ag-Pb-Zn±Au TYPF: 105 STRIKE/DIP: TREND/PLUNGE: DIMENSION: 12 x 2 Metres

COMMENTS: The vein, exposed by stripping, is over 12 metres in strike length and

2.4 metres thick.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Triassic-Jurassic Nicola Unnamed/Unknown Formation

Mesozoic-Cenozoic Unnamed/Unknown Informal

LITHOLOGY: Feldspar Porphyry Dike

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel GRADE: Greenschist

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1923 Assav/analysis

SAMPLE TYPE: Bulk Sample

COMMODITY Silver 1400.0000 Grams per tonne

34.0000 Gold Grams per tonne

COMMENTS: Grades are from a 1.8 tonne bulk sample.

REFERENCE: Index No. 3, page 207.

CAPSULE GEOLOGY

The Octagon prospect is located 12 kilometres north-northwest of Vernon, northwest of Okanagan Lake.

Sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Middle Jurassic granitic rocks intrude the Nicola and Harper Ranch. Outliers of Eocene Kamloops Group volcanic rocks are present.

Within a sequence of Nicola argillites and volcanic flows a quartz vein in a Jurassic(?) dike hosts gold, silver, copper, lead and zinc mineralization. The vein, exposed by stripping, is over 12 metres in strike length and 2.4 metres thick. The vein and the associated quartz stringer zone carry disseminations of freibergite (silver-rich tetrahedrite), galena, lesser pyrite and sphalerite and minor chalcopyrite, malachite, azurite, native gold and argentite. The native gold and argentite are mainly found with drusy quartz.

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Mineralization is more common along the vein margins, especially where sheared, and within the stringer zone. The vein strikes approximately north-northeast and dips 25 degrees to the west. Localized sericite alteration adjacent to the vein has been reported. Systematic channel sampling of the quartz vein and stringer zones illustrates the sporadic nature of the mineralization.

A 1-metre channel sample taken along the strike of a 50 millimetre thick sulphide-rich quartz stringer assayed 4.9 grams per tonne gold, 941.7 grams per tonne silver, 1.5 per cent copper and 2.4 per cent lead (Assessment Report 17664). The average grades for gold and silver were 0.48 and 301.6 grams per tonne while the median values were only 0.04 and 23.6 grams per tonne.

In 1923, a 1.8-tonne shipment of (probably) selected ore was made producing 2,550 grams of silver and 62 grams of gold. In 1980, Thunderbird Resources Ltd. carried out geological mapping and soil geochemistry. In 1985, Tri-Pacific Resources Ltd. conducted some exploration. In 1987-88, Canova Resources Ltd. carried out geological mapping, magnetometer and VLF-EM surveys, and trenching.

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```
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EMPR ASS RPT 2552, 16816, *17664, *17928
EMPR BC METAL MM00435
EMPR EXPL 1983-147; 1988-C56,57
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
EMPR GEM 1970-407
EMPR INDEX 3-207
EMPR MAP 7216G, 8513G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966; *Barker, R.M. (1990):
    Draft Property Description)
EMPR RGS 1976
GSC MAP 46-7, 48-4A, 1059A, 1712A
GSC MEM 296-148
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT *1931A, pp. 77,85
GCNL #215, 1985; #72, 1986; #90, Jun 9, Aug 8, 1988
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 DATE CODED:
 1985/07/24
 CODED BY:
 GSB

 DATE REVISED:
 1993/03/31
 REVISED BY:
 DISC

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW016

NATIONAL MINERAL INVENTORY:

NAME(S): **PAYROLL** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 19 50 N

NORTHING: 5578061

LONGITUDE: 119 21 57 W ELEVATION: 470 Metres

EASTING: 331622

UTM ZONE: 11 (NAD 83)

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LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Fig. 7).

COMMODITIES: Silver Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Chalcopyrite Pyrite MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 090/45S TREND/PLUNGE:

COMMENTS: The vein averages 0.8 metres in thickness and is traceable on surface

for about 400 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Nicola **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

GRADE: Greenschist

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Payroll showing is located 10 kilometres northwest of Vernon, along the southwest bank of Newport Creek.

Sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Middle Jurassic granitic rocks intrude the Nicola and Harper Ranch groups. Outliers of Eocene Kamloops Group volcanic rocks are present.

A banded quartz vein within Nicola argillaceous sediments hosts silver, lead, gold and copper mineralization. Mineralization is more pronounced on the hangingwall where the vein is more vuggy and comprises galena and minor pyrite and chalcopyrite. The east-west striking vein dips south at about 45 degrees, averages about 0.8 metre thick and is traceable on surface for about 400 metres. A sample of selected ore from the hangingwall assayed 1.37 grams per tonne gold, 1217 grams per tonne silver and 40.4 per cent lead (Minister of Mines Annual Report 1929, p. 247).

The first published information on this showing was in 1929.

**BIBLIOGRAPHY** 

EMPR AR \*1929-247; 1930-208 EMPR ASS RPT 12313 EMPR BULL 1932 No.1, p. 79 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 148 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT \*1931A, pp. 78, 85-86

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW017

NATIONAL MINERAL INVENTORY:

NAME(S): MITCHELL AND COCHRANE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 18 53 N

NORTHING: 5576329 EASTING: 330676

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REPORT: RGEN0100

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LONGITUDE: 119 22 42 W ELEVATION: 390 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Fig. 7).

COMMODITIES: Lead Silver Copper 7inc

**MINERALS** 

Chalcopyrite Sphalerite

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 090/80S TREND/PLUNGE:

COMMENTS: The veins average 2 metres in thickness and can be traced for about 60

metres on surface.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Nicola **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Mitchell and Cochrane showing is located 9 kilometres north-

west of Vernon, north of Bradley Creek.

Sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Middle Jurassic granitic rocks intrude the Nicola and Harper Ranch. Outliers of Eocene Kamloops Group volcanic rocks are

present in the area.

Two quartz veins within Nicola argillite host lead, silver, copper and zinc. The parallel veins, averaging about 2 metres thick, carry disseminated pyrite, galena, chalcopyrite and sphalerite. The east/west striking veins dip steeply south and can be traced on surface for about 60 metros. Southed are also as the control of the control surface for about 60 metres. Sorted samples assayed up to 300 grams per tonne silver and 15 per cent lead (Minister of Mines Annual Report 1922, p. 145). Sulphides also occur in the wallrocks.

Some exploration work was carried out in 1922.

**BIBLIOGRAPHY** 

EMPR AR \*1922-145 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 147 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 84-85

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW018

NATIONAL MINERAL INVENTORY: 082L6 Cu1

PAGE:

REPORT: RGEN0100

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 $\mbox{NAME(S): } \frac{\mbox{PORTEOUS CAMP}}{\mbox{HUGAL}}, \mbox{I.O.U., GOODENOUGH}, \label{eq:condition}$ 

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 18 10 N LONGITUDE: 119 28 21 W NORTHING: 5575220 EASTING: 323929 ELEVATION: 800 Metres
LOCATION ACCURACY: Within 5 KM
COMMENTS: Showing (Minister of Mines Annual Report 1900, page 886).

COMMODITIES: Gold I ead Copper

**MINERALS** 

SIGNIFICANT: Gold Galena Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation

LITHOLOGY: Argillite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Porteus Camp showing is located 15 kilometres west-northwest

of Vernon north of Naswhito Creek.

Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Quartz veins within Harper Ranch argillite host gold, lead and copper mineralization. The veins are up to 2 metres thick, strike east/west and dip to the north. The veins carry disseminations of

galena, native gold and minor chalcopyrite.

The first reference to this occurrence is from the 1900 Minister of Mines Annual Report.

**BIBLIOGRAPHY** 

EMPR AR \*1900-866,887

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296, p. 145 GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 CODED BY: FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW019

NATIONAL MINERAL INVENTORY:

NAME(S): RIBBLEWORTH, WINFIELD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 05 08 N LONGITUDE: 119 19 42 W ELEVATION: 1090 Metres NORTHING: 5550740 EASTING: 333440

LOCATION ACCURACY: Within 1 KM

COMMENTS: Workings (Assessment Report 7700).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Garnet

Magnetite

MINERALIZATION AGE: Miocene

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer

TYPE: 105 Polymetallic veins Ag-Pb-Z DIMENSION: 5000 x 1500 x 60 Metres Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: COMMENTS: Dimensions are the estimated extent of the fluvial deposits which

include the 082LSW072, 93 and 142 deposits.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Unnamed/Unknown Group STRATIGRAPHIC AGE Miocene

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Undivided Metamorphic Assembl.

**CAPSULE GEOLOGY** 

The Ribbleworth showing is located 20 kilometres south-southwest

of Vernon, between Ribbleworth and Clark Creeks.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. Middle Jurassic granitic plutons intrude the older rocks. Eocene Penticton Group and Miocene volcanic and sedimentary rocks cap areas of older rock.

The basal, partly cemented, well rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits unconformably overlie gneissic rocks containing amphibolite, and/or volcanic rocks of the Penticton Group. Miocene sediments are commonly overlain by Miocene plateau basalt flows. The gold is pure (850 fine), of a reddish colour, and is found as flattened pellets up to 2 millimetres in size, with some very fine gold reported. Garnet and a little magnetite occur with the gold. The fluvial deposits, including 082LSW072, 93 and 142, are estimated to cover a 5000 by 1550 by 60 metre area.

Old exploration shafts have been located. In 1977-79, Union Oil

Company explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical, radiometric, airborne magnetometer and drill programs were conducted.

**BIBLIOGRAPHY** 

EMPR AR \*1933-A197,198; \*1933-D46,47,48 EMPR ASS RPT 6631, 6944, \*7700 EMPR EXPL 1977-E77; 1978-E90; 1979-98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G

EMPR MEM \*296, p. 137 EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296 GSC OF 736, 2167

MINFILE NUMBER: 082LSW019

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60 Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW020

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

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NAME(S): **BEVERLEY**, BEVERLEY NO.2, PEGGY, MARIE, EDITH

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 18 45 N LONGITUDE: 119 18 24 W ELEVATION: 740 Metres NORTHING: 5575921 EASTING: 335770

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada Map 1059A).

COMMODITIES: Gold Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Tetrahedrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Mesothermal TYPE: 105 Polyn Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: The veins are 0.3 to 9 metres thick and are traceable for 250 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Nicola Undefined Formation

LITHOLOGY: Volcanic Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1934 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 1100.0000 Grams per tonne Gold 27.0000 Grams per tonne

I ead 31.0000 Per cent COMMENTS: Highest reported values.

REFERENCE: Minister of Mines Annual Report 1934, page D32.

CAPSULE GEOLOGY

The Beverley showing is located 6 kilometres north-northwest of Vernon, between Swan and Okanagan lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A network of quartz veins within volcanic and sedimentary rocks of the Nicola host gold, lead, silver and copper mineralization. The generally concordant veins carry pyrite, galena, and occasional chalcopyrite and tetrahedrite. The veins are persistent in width, range from 0.3 to 9 metres thick, and are traceable for 250 metres in length. The values are generally low, but values up to 27 grams per terms cold. tonne gold, 1100 grams per tonne silver and 31 per cent lead have been reported (Minister of Mines Annual Report 1934, page D32).

By 1934, exploration included trenches, open cuts and shallow shafts.

**BIBLIOGRAPHY** 

EMPR AR \*1934-D32

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP 1059A, 1712A GSC MEM 296, p. 141 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW021

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5575536 EASTING: 336233

REPORT: RGEN0100

348

NAME(S): **KEYSTONE-1**, KEYSTONE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L06W BC MAP:

LATITUDE: 50 18 33 N

LONGITUDE: 119 18 00 W ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Figure 7).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz ALTERATION: Malachite ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 095/90 DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic Nicola Undefined Formation

LITHOLOGY: Tuffaceous Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel
METAMORPHIC TYPE: Regional RELATIONSHIP:
COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Keystone-1 showing is located 5 kilometres north-northwest of Vernon, between Swan and Okanagan lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein within tuffaceous volcanic rocks of the Nicola hosts copper mineralization. A malachite-stained vertical quartz vein, striking 095 degrees, carries minor chalcopyrite.

By 1931, an open cut had exposed the vein.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 146 GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60 GSC SUM RPT 1931A, p. 77, 83

DATE CODED: 1985/07/24 CODED BY: FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW022

NATIONAL MINERAL INVENTORY:

NAME(S): **BLUE JAY (L. 738)** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 17 07 N LONGITUDE: 119 17 23 W ELEVATION: 580 Metres

NORTHING: 5572858 EASTING: 336883

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft on Lot 738 (Assessment Report 4960).

COMMODITIES: Gold Copper I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Tetrahedrite Gold Pyrite Arsenopyrite Graphite

ALTERATION: Clay Graph ALTERATION TYPE: Argillic MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

Disseminated

CHARACTER: Vein Shear
CLASSIFICATION: Epigenetic Hydrothermal
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Sheared

STRIKE/DIP: 015/60E DIMENSION: 30 x 1 Metres TREND/PLUNGE:

COMMENTS: The vein is 1.4 metres wide and is traceable for 30 metres.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Andesite Flow

Andesite Tuff Andesitic Breccia Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1974 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY 140.0000 Grams per tonne

COMMENTS: Highest value from selected sampling.

REFERENCE: Assessment Report 4960.

CAPSULE GEOLOGY

The Blue Jay showing is located 3 kilometres north-northwest of Vernon.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by

Middle Jurassic granitic rocks. Patches of Eocene Penticton Group

volcanic rocks overlie the older rocks.

A quartz vein in Nicola andesite flows, tuffs and breccias hosts gold, lead and copper mineralization. Disseminated pyrite, arsenopyrite, and minor galena, tetrahedrite and native gold are reported. The vein, 1.4 metres thick, is traceable for 30 metres. A two-centimetre graphitic clay fault gouge on the hangingwall contains higher gold values than the vein. Gold values from selected sampling were up to 140 grams per tonne (Assessment Report 4960).

By 1899, a 13-metre shaft and a 53-metre adit were completed. The claim was Crown-granted in 1898. Additional exploration was

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

reported in 1934.

**BIBLIOGRAPHY** 

EMPR AR \*1897-609; 1898-1195; \*1899-747; \*1934-D32,34

EMPR ASS RPT \*4960

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM \*1974-89,90

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR PF (Jones, W.C. (1959): Groundwater in the BX Creek Area; In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296, p. 142

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT 1931A, p. 75

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW023

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Nicola

NORTHING: 5575297 EASTING: 308326

PAGE:

REPORT: RGEN0100

351

NAME(S): EXPO, EXPO 4, EXPO 6

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 17 55 N LONGITUDE: 119 41 29 W ELEVATION: 1640 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The showing is near a flow contact on a cliff face (Assessment Report 17883).

COMMODITIES: Agate Gemstones Silver

MINERALS
SIGNIFICANT: Agate Jasper

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Stratabound
CLASSIFICATION: Epigenetic
TYPE: I05 Polyr Disseminated Industrial Min. Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene GROUP Kamloops **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Volcaniclastic Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage PHYSIOGRAPHIC AREA: Thompson Plateau

Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1988 SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Grams per tonne 35,0000 Silver

COMMENTS: Highest value from samples taken from the area of chalcedonic agate.

REFERENCE: Assessment Report 17883.

**CAPSULE GEOLOGY** 

The Expo showing is located 30 kilometres west of Vernon, north

of Little Bouleau Lake.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Extensive Eocene Penticton Group and Kamloops Group volcanic and sedimentary rocks overlie the older units.

Along a fault(?) escarpment several interflow volcaniclastic sediments of the Kamloops Group host agate, jasper and silver mineralization. Samples taken from the area of chalcedonic agate assayed around 35 grams per tonne silver (Assessment Report 17883).

In 1988, Pacific Northwest Resources Inc. carried out prospecting in the area.

**BIBLIOGRAPHY** 

EMPR ASS RPT 17882, \*17883, 18878 EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37 (rev), 5214G, 7216G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW023

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW024

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

NORTHING: 5574670 EASTING: 337256

REPORT: RGEN0100

352

NAME(S): **JUMBO (L. 4882)** 

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L06W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 18 06 N LONGITUDE: 119 17 07 W ELEVATION: 530 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Adits have been located in the field.

> COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Pyrite ALTERATION: Sulphur ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hydrothermal Polymetallic veins Ag-Pb-Zn±Au 101 Au-quartz veins

SHAPE: Irregular MODIFIER: Fractured Faulted

STRIKE/DIP: 090/65S TREND/PLUNGE: DIMENSION: 20 x 1 Metres COMMENTS: Dimensions of vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Tuffaceous Volcanic

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1940 SAMPLE TYPE: Bulk Sample

COMMODITY **GRADE** 

Silver 8.4000 Grams per tonne Gold 7.7000 Grams per tonne

COMMENTS: Grades are for recovered metals from 49 tonnes.

REFERENCE: Index No. 3, page 201.

**CAPSULE GEOLOGY** 

The Jumbo prospect is located 4 kilometres north-northwest of Vernon, between Swan and Okanagan Lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks underlie the older rocks.

Quartz veins and veinlets in Nicola volcanic rocks, adjacent to argillites, host gold and silver mineralization. A series of northsouth stringers is cut by an east-west vein. This irregular drusy vein is fractured and faulted, up to 1.2 metres thick and traceable for 20 metres. The vein carries disseminated free gold and sparse to heavy pyrite mineralization. Native sulphur is reported as a weathering product of pyrite. The vein contains erratic grades; the best values are 93 grams per tonne gold and 10 grams per tonne silver (Minister of Mines Annual Report 1930, page 208).

The first reference to the occurrence is from 1897. In 1929, a

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

3.5~metre shaft was sunk and a short crosscut driven. In 1940, a 49-tonne shipment produced 373 grams of silver and 342 grams of gold.

#### **BIBLIOGRAPHY**

EMPR AR 1897-608; \*1928-220; \*1929-248; \*1930-208; 1931-116; 1934-D31,34; 1940-23

EMPR ASS RPT 4960

EMPR BC METAL MM00430

EMPR BULL 1932 No. 1, p. 78

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMRP GEM 1974-89,90

EMPR INDEX 3-201

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR OF 1989-5, 1990-30

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296 p. 145

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT \*1931A, pp. 76,82-83

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW024

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW025

NATIONAL MINERAL INVENTORY:

NAME(S): REX (L. 3328), THREE TRAMPS, IG

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 15 32 N LONGITUDE: 119 21 01 W ELEVATION: 560 Metres NORTHING: 5570058 EASTING: 332477

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft on IG claim (Assessment Report 18983).

COMMODITIES: Gold

Copper

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Chalcopyrite Pyrite

COMMENTS: Mineralization occurs in quartz veins cutting ultramafic rocks.

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: 105 Po Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 090/ DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Paleozoic-Mesozoic Unnamed/Unknown Formation

Harper Ranch Ultramafic Intrusions Paleozoic-Mesozoic

LITHOLOGY: Amphibolite

Hornblendite

HOSTROCK COMMENTS: The ultramafic rocks intrude or are in fault contact with Devonian to

Triassic rocks of the Harper Ranch Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Rex showing is located 6 kilometres west of Vernon, north of

the east end of Vernon Arm of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Occasional Upper Paleozoic ultramafic rocks are associated with the Harper Ranch Group. These rocks are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

Quartz veins in amphibolite and hornblendite of Upper Paleozoic(?) age host gold mineralization. Two banded quartz veins, about 0.4 metre thick, carry disseminated pyrite, chalcopyrite and native gold.

By 1901, exploration had been conducted through a 22-metre shaft and 6 metres of drifting. The area of the shaft was sampled in 1988 by G. Benvenuto, but samples had very low assay results (Assessment Report 18983).

**BIBLIOGRAPHY** 

EMPR AR \*1899-746; \*1901-1125; 1902-189; 1904-300; \*1905-192 EMPR ASS RPT \*18983

EMPR MAP 7216G, 8513G

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 1059A, 1712A

GSC MEM 296

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

BIBLIOGRAPHY

GSC SUM RPT \*1931A, p. 78

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW026

NATIONAL MINERAL INVENTORY:

NAME(S): **FALCON (L. 903)** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

356

LATITUDE: 50 16 59 N LONGITUDE: 119 18 02 W ELEVATION: 630 Metres NORTHING: 5572635 EASTING: 336104

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 903 (National Topographic Map, 082LSW, 1:50,000).

COMMODITIES: Gold Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Chalcopyrite Galena Pyrite<sup>'</sup> Arsenopyrite

MINERALIZATION AGE: Mesozoic-Cenozóic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 025/40W TREND/PLUNGE:

COMMENTS: The vein is 0.4 to 0.6 metres thick and is traceable for 90 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic Undefined Formation

LITHOLOGY: Argillite

Tuffaceous Sediment/Sedimentary

**GEOLOGICAL SETTING** TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1899 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

9999,0000 Grams per tonne Gold

COMMENTS: Pockets of free gold in shaft contained up to 17,140 grams per tonne

gold.

REFERENCE: Minister of Mines Annual Report 1899, page 747.

CAPSULE GEOLOGY

The Falcon showing is located 3 kilometres northwest of Vernon. In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches volcanic rocks underlie the older rocks. Patches of Eocene Penticton Group

A quartz vein in Nicola argillaceous and tuffaceous sediments hosts gold, silver, copper and lead mineralization. The vein is 0.4 to 0.6 metre thick and traceable for 90 metres. Mineralization consists of disseminated arsenopyrite, pyrite and minor chalcopyrite, galena and free gold. Arsenopyrite also occurs in the wallrock. Free gold was taken from each 3 metres of the shaft and although average grades were low, some pockets assayed up to 17,140 grams per tonne gold (Minister of Mines Annual Report 1899, page 747).

By 1899, a 15-metre shaft had been sunk.

**BIBLIOGRAPHY** 

EMPR AR \*1899-747; 1902-304; \*1921-191; \*1932-143; \*1934-D30 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 144 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 76,82

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

MINFILE NUMBER: 082LSW026

PAGE:

FIELD CHECK: N FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW027

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5575135 EASTING: 342338

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

358

NAME(S): **BON DIABLE (L. 1179)**, BX CAMP

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 18 26 N

LONGITUDE: 119 12 51 W ELEVATION: 690 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Fig. 7).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Faulted

STRIKE/DIP: 020/75W DIMENSION: TREND/PLUNGE:

**FORMATION** 

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

<u>GROUP</u>

Proterozoic Undefined Group Silver Creek Unnamed/Unknown Informal Jurassic

LITHOLOGY: Quartzite

Granitic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Amphibolite

YEAR: 1899

Grams per tonne

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assav/analysis SAMPLE TYPE: Bulk Sample

COMMODITY Silver

COMMENTS: Grade is from a 1 tonne shipment.

REFERENCE: Index No. 3, page 190.

**CAPSULE GEOLOGY** 

The Bon Diable showing is located 6 kilometres northeast of

498,0000

Vernon, northwest of BX Creek.

In the area, east of the Okanagan Valley fault zone, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks and gneissic rocks of unknown age are faulted over metasedimentary rocks of the Proterozoic Silver Creek Formation.

Jurassic granitic dikes cut the older rocks.

In an area of dikes, faulted quartzites of the Silver Creek In an area of dikes, faulted quartzites of the Silver Creek Formation host gold, silver and copper mineralization in quartz veins. Several small quartz veins and irregular bodies carry spotty free gold and malachite staining. The main vein is 0.9 metre thick and is faulted off at depth. The vein strikes 020 degrees and dips 75 degrees west.

Initial sampling assayed up to 320 grams per tonne gold although average grades are low. A 1-tonne shipment in 1899 produced 498 grams of silver.

Exploration is first mentioned in 1895 and by 1901 a 12-metre shaft, with about 30 metres of underground working had been completed.

MINFILE NUMBER: 082LSW027

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR AR \*1895-706; \*1897-609; \*1899-747,848; \*1901-1125 EMPR BC METAL MM00426 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR INDEX 3-190 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 142 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 75

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW028

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

EASTING: 323478

REPORT: RGEN0100

360

NAME(S): KLONDYKE, BEAU

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06W BC MAP: UTM ZONE: 11 (NAD 83) LATITUDE: 50 15 02 N NORTHING: 5569423

LONGITUDE: 119 28 34 W ELEVATION: 640 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 14905).

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Calcite ALTERATION: Chlorite Silica

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Mesozoic-Cenozoic Silicific'n

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epithermal Breccia Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

Unnamed/Unknown Informal Middle Jurassic

LITHOLOGY: Granodiorite

Argillite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic. The plutonic rocks

are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenshist facies.

CAPSULE GEOLOGY

The Klondyke showing is located 14 kilometres west of Vernon, on the west side of Okanagan Lake.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic grantic rocks informally named the Terrace Creek batholith. Eocene Pervolcanic rocks overlie the igneous and sedimentary rocks. Eocene Penticton Group

Quartz veins within granodiorite near the contact with argillite and marble of the Harper Ranch host copper and gold mineralization. The irregular quartz-calcite veins occur in an area of fracturing, brecciation and chlorite and silica alteration. The veins are up to 1 metre thick and carry minor disseminated pyrite, chalcopyrite and "gold values".

By 1899, two shafts, 15 and 2.5 metres deep, had been sunk. 1986, Tournigan Mining Exploration Ltd. carried out geological mapping.

**BIBLIOGRAPHY** 

EMPR AR 1898-1130; \*1899-746

EMPR ASS RPT 14905 EMPR EXPL 1986-C98

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 146

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT 1931A, p. 77

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW029

NATIONAL MINERAL INVENTORY:

NAME(S): OPHIR, BRENT

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L06W

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

362

BC MAP: LATITUDE: 50 16 37 N

NORTHING: 5572110 EASTING: 331155

LONGITUDE: 119 22 11 W ELEVATION: 460 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Fig. 7).

COMMODITIES: Copper 7inc Silver

Gold I ead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite

Sphalerite

Galena

MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Stratiform

Massive

Disseminated

G04 Besshi massive sulphide Cu-Zn

CHARACTER. STREETS. CLASSIFICATION: Volcanogenic
TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 Polyr SHAPE: Tabular DIMENSION: 250 x 60

x 2 Metres COMMENTS: High-grade, zinc-rich zone.

STRIKE/DIP: 135/ TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

TRATIGRAPHIC AGE <u>GROUP</u> Paleozoic-Mesozoic Harper Ranch

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sericitic Schistose Rhyolite

Slaty Schistose Argillite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

METAMORPHIC TYPE: Regional

TERRANE: Harper Ranch

RELATIONSHIP: Post-mineralization

GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1928

SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver

80.0000

Grams per tonne

Gold

2.0000

Grams per tonne

Copper

1.6000

Per cent

Lead

2.0000

Per cent

Zinc

21.0000

Per cent

COMMENTS: Sample from zinc-rich zone.

REFERENCE: Geological Survey of Canada Summary Report 1931A, page 92-94.

CAPSULE GEOLOGY

The Ophir showing is located 7 kilometres west of Vernon, east

of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A stratiform, volcanogenic, massive to semi-massive sulphide layer is associated with Harper Ranch slaty to schistose argillite and sericitic schistose rhyolite. The minerals present in order of abundance are pyrite, chalcopyrite, sphalerite and galena. Some secondary zinc, iron and copper minerals are present. Pyrite is ubiquitous, occurring disseminated throughout the zone while chalcopyrite and sphalerite show marked zoning. Chalcopyrite occurs as massive bands and lenses, up to 3 millimetres thick; disseminated

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

with sphalerite and galena; or occasionally disseminated in the adjoining rhyolite.

Samples of the copper-rich massive sulphides assayed 4.3 per cent copper and 7 grams per tonne silver over 0.6 metre (Geological Survey of Canada Summary Report 1931A, page 92-94).

A zinc-rich zone occurs 120 metres along strike to the southeast. Massive to disseminated sphalerite, with associated galena, pyrite and chalcopyrite, occurs in a 0.9-metre thick zone. Samples assayed up to 21 per cent zinc, 1.6 per cent copper, 2 per cent lead, 2 grams per tonne gold and 80 grams per tonne silver (Geological Survey of Canada Summary Report 1931A, page 92-94). This zone is reported to be 250 metres long, at least 60 metres wide with an average thickness of 6 metres.

Exploration work was first reported in 1923 and continued to 1928. A 33-tonne shipment in 1928 produced 3,484 grams of silver, 62 grams of gold, 360 kilograms of copper and 756 kilograms of lead.

### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1993/03/31 REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW030

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5574678 EASTING: 336999

REPORT: RGEN0100

364

NAME(S): ROYAL AND PEERLESS, ROYAL, PEERLESS

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L06W BC MAP:

LATITUDE: 50 18 06 N LONGITUDE: 119 17 20 W ELEVATION: 610 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: The Peerless adjoined the Jumbo (082LSW024) on the west.

COMMODITIES: Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Mesothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Triassic-Jurassic GROUP Nicola **FORMATION** Undefined Formation

LITHOLOGY: Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE:

CAPSULE GEOLOGY

The Royal and Peerless showings are located 4 kilometres northnorthwest of Vernon, between Swan and Okanagan Lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein in Nicola volcanic rocks hosts silver, zinc and lead mineralization. The vein carries disseminations of sphalerite and galena.

In 1942 and 1952, 2 shipments totalling 5 tonnes (4 from the Royal and 1 from the Peerless) produced 2,829 grams of silver, 89 kilograms of lead and 278 kilograms of zinc.

**BIBLIOGRAPHY** 

EMPR AR 1942-26; 1952-41

EMPR ASS RPT 4960

EMPR BC METAL MM00437, MM00438 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR INDEX 3-208, 211 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW031

NATIONAL MINERAL INVENTORY:

NAME(S): **RUBY GOLD (L. 2548)** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

365

LATITUDE: 50 14 59 N LONGITUDE: 119 24 44 W ELEVATION: 480 Metres LOCATION ACCURACY: Within 500M COMMENTS: Centre of Lot 2548. NORTHING: 5569181 EASTING: 328029

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Pvrite MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au I01
COMMENTS: Vein is 3 to 3.7 metres thick and has been traced for about 60 metres. Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Mylonitic Granite

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Thompson Plateau

Harper Ranch METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

CAPSULE GEOLOGY

The Ruby Gold showing is located 10 kilometres west of Vernon,

on the east side of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein in mylonitic granite hosts gold mineralization. The 3 to 3.7 metre thick quartz vein carries pyrite and free gold and has been traced for about 60 metres. At the bottom of the 9.1-metre shaft the vein breaks up into stringers.

A shaft was driven on the claim in 1897. The Ruby Gold claim was Crown-granted in 1904.

**BIBLIOGRAPHY** 

EMPR AR \*1897-608; \*1904-300

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM \*296, p. 149 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 78

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW032

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5567746

EASTING: 328419

PAGE:

REPORT: RGEN0100

366

NAME(S): MORNING GLORY (L. 736)

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L03W

BC MAP: LATITUDE: 50 14 13 N

LONGITUDE: 119 24 22 W ELEVATION: 550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 736 (National Topographic Map, 082LSW, 1:50,000).

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Chalcopyrite

Pyrite<sup>®</sup> Arsenopyrite

MINERALIZATION AGE: Mesozoic-Cenozóic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au
COMMENTS: Vein averages 1.5 metres in thickness and is traceable for 120 metres Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Foliated Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1988 CATEGORY: Assay/analysis

> SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Gold 65.0000 Grams per tonne Copper 4.0000 Per cent

COMMENTS: Highest values reported.

REFERENCE: Assessment Report 18983.

**CAPSULE GEOLOGY** 

The Morning Glory showing is located 10 kilometres southwest of

Vernon, on the east side of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie

the older rocks.

A quartz vein, striking 050 degrees, in foliated diorite hosts gold and copper mineralization. The quartz vein averages about 1.5 metres in thickness and is traceable for 120 metres on surface. Mineralization consists of pyrite, chalcopyrite, native gold and arsenopyrite. Values up to 65 grams per tonne gold and 4 per cent copper have been reported (Minister of Mines Annual Report 1896, page 579 and Assessment Report 18983).

By 1896, a 24-metre shaft had been sunk. In 1897, some quartz vein material was processed in a stamp mill but results were not favourable.

**BIBLIOGRAPHY** 

EMPR AR \*1896-579; \*1897-608; 1902-189

EMPR ASS RPT \*18983

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 46-7, 48-4A, 1059A, 1712A
GSC MEM 296, p. 147
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT \*1931A, p. 77

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW032

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW033

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

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NAME(S): DENSY (L. 1051), EMPRESS, GOLDEN SUNBEAM, RAINBOW, EH-U, EHU

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 15 06 N LONGITUDE: 119 22 26 W NORTHING: 5569309 EASTING: 330769 ELEVATION: 510 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit on Lot 1051 (Assessment Report 18983).

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Gold Chalcopyrite ASSOCIATED: Quartz Pyrite ALTERATION: Ankerite
ALTERATION TYPE: Carbonate Sericite

Sericitic

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

Hydrothermal CLASSIFICATION: Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Quartzite

Argillaceous Siltstone

Volcanic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1988 Assav/analysis

> CATEGORY: Assay SAMPLE TYPE: Grab

**GRADE COMMODITY** 33.2500 Grams per tonne Cold

COMMENTS: Highest value from 3 narrow quartz veins.

REFERENCE: Assessment Report 18983.

CAPSULE GEOLOGY

The Densy showing is located 7 kilometres west of Vernon, north of Okanagan Lake. The British Empire showing (082LSW034) is 220 to 250 metres to the southeast.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

Quartz veins in Harper Ranch siltstones, quartzites and volcanic

rocks host gold and copper mineralization.

An adit was driven on 3 narrow quartz veins with free gold and which assayed 33.25 grams per tonne gold (Assessment Report 18983). The veins are hosted in iron-carbonate-sericite altered dirty quartzite and carry disseminated pyrite, chalcopyrite and native gold. One vein is up to 1.8 metres thick.

Four veins are exposed in outcrops above the adit and 13 to 75 metres southeast of the portal. The best sample in 1988 was from a vein 0.5 metre west of the main vein. This vein, up to 8 centimetres wide, strikes 40 degrees and dips vertically. The sample

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

assayed 0.71 grams per tonne gold (Assessment Report 18983).

The Densy claim was Crown-granted in 1898 and by 1899 a 40-metre adit and 4 shafts had been developed. The veins were sampled in 1988 by G. Benvenuto with disappointing results.

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EMPR AR 1898-1195; \*1899-746

EMPR ASS RPT \*18983

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM 296, p. 144

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT \*1931A, p. 76

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW034

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5569088 EASTING: 328026

REPORT: RGEN0100

370

NAME(S): BRITISH EMPIRE (L. 2539), ROYAL STANDARD (L. 2540), DOMINION FRACTION (L. 2541), IMPERIAL, EHU, EH-U

STATUS: Past Producer Underground MINING DIVISION: Vernon

REGIONS: British Columbia

NTS MAP: 082L03W

BC MAP: LATITUDE:

LONGITUDE: 119 24 44 W ELEVATION: 460 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft on Lot 2539 (Assessment Report 18983).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Gold Chalcopyrite

ASSOCIATED: Quartz Pyrite Arsenopyrite

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic SHAPE: Irregular Hydrothermal

MODIFIER: Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Quartzite

Argillite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1987 Assay/analysis

SAMPLE TYPE: Grab **GRADE** COMMODITY

Grams per tonne Gold 4.5000

COMMENTS: Sample, including 2 and 7 centimetre thick veins, from the main adit

zone.

REFERENCE: Assessment Report 18983.

CAPSULE GEOLOGY

The British Empire showing is located 7 kilometres west of Vernon, north of the Vernon Arm of Okanagan Lake. Three adits and 2 short shafts occur at this showing. The similar Densy showing (082LSW033) is 220 to 250 metres to the northwest.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek These units are intruded by batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

Quartz veins and adjoining wallrocks in Harper Ranch quartzites and argillites host gold, silver and copper mineralization. Within  $\epsilon$ Within a 220-metre section, 18 narrow quartz veins, up to 0.6 metre thick, carry gold, pyrite, arsenopyrite and chalcopyrite as disseminations and on fractures. The quartz veins have a general strike of 065 to 085 and dip steeply. They form lenses that pinch and swell along shears and fractures, and have a contorted appearance. Their walls are commonly sheared and gouge-filled. The  $2\,$  main gold-bearing veins are 27 and 29 centimetres thick and strike north.

In the main adit zone a recent sample assayed up to 4.5 grams

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

per tonne gold over 3.3 metres, including 2 and 7-centimetre thick quartz veins (Assessment Report 18983). The arsenopyrite content does not correlate with gold values.

The British Empire claim was Crown-granted in 1901. During 1903-06, 185 tonnes of ore produced 342 grams of silver and 2,022

1903-06, 185 tonnes of ore produced 342 grams of silver and 2,022 grams of gold. By 1931 there were over 200 metres of underground cross-cuts, drifts, raises and shafts. In 1986-87, G. Benvenuto carried out geological mapping and sampling.

#### **BIBLIOGRAPHY**

```
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EMPR ASS RPT *16115; *18983

EMPR BC METAL MM00427

EMPR BULL 1932 No. 1, p. 8; No. 20 part III, p. 24

EMPR EXPL 1987-C88

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR INDEX 3-190

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30

EMPR P 1989-1, pp. 356-357

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296, p. 142

GSC OF 637 (Map C), 736, 2167

GSC SUM RPT *1931A, p. 75,81-82

IPDM Mar/Apr, 1983

Placer Dome File
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW034

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW035

NATIONAL MINERAL INVENTORY:

NAME(S): IRON CAP, EH-U, EHU

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

372

NORTHING: 5569733 EASTING: 331040

MINING DIVISION: Vernon

LATITUDE: 50 15 20 N
LONGITUDE: 119 22 13 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Shaft (Assessment Report 18983).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz

Pyrite ALTERATION: Ankerite Sericite

ALTERATION TYPE: Carbonate
MINERALIZATION AGE: Mesozoic-Cenozoic Sericitic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated Hvdrothermal

SHAPE: Tabular

STRIKE/DIP: 120/75S DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Basalt Quartzite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Harper Ranch

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

CAPSULE GEOLOGY

The Iron Cap showing is located 7 kilometres west of Vernon, north of the Vernon Arm of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic

and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Penticton Group volcanic rocks overlie older rocks.

Quartz veins in Harper Ranch basalt host copper mineralization. Two narrow quartz veins, explored by shallow pits and a shallow shaft, occur about 600 metres northeast of the Densy adit (082LSW033). The veins, striking 120 degrees and dipping 75 degrees to the south, carry disseminated pyrite and chalcopyrite. The basalt appears to be iron-carbonate-sericite altered. The thickest vein is 94 centimetres and a sample (#3052) assayed 0.116 gram per tonne gold (Assessment Report 18983).

About 235 metres to the northwest of the above vein, 3 shallow pits appear to have explored a quartz vein hosted in quartzite.

By 1897, a 3 metre shaft had been sunk. The veins were sampled by G. Benvenuto in 1988.

**BIBLIOGRAPHY** 

EMPR AR \*1897-609 EMPR ASS RPT \*18983 pp. 55-58; 1988, pp. 355-363 EMPR FIELDWORK 1987, EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP 1059A, 1712A

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*296, p. 145 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 76

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

MINFILE NUMBER: 082LSW035

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW036

NATIONAL MINERAL INVENTORY:

NAME(S): THREE TRAMPS (L. 525), EH-U, EHU

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NORTHING: 5569642 EASTING: 331969

PAGE:

REPORT: RGEN0100

374

LATITUDE: 50 15 18 N LONGITUDE: 119 21 26 W ELEVATION: 530 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Shaft at the northeast corner of the EHU claim (Assessment Report

COMMODITIES: Copper

Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrrhotite

Magnetite Pyrite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

Paleozoic-Mesozoic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP** Paleozoic-Mesozoic

Harper Ranch

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation Ultramafic Intrusions

**FORMATION** 

LITHOLOGY: Amphibolite

Hornblendite

The ultramafic rocks intrude or are in fault contact with the HOSTROCK COMMENTS:

Devonian to Triassic Harper Ranch Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Three Tramps showing is located 6 kilometres west of Vernon, north of the end of the Vernon Arm of Okanagan Lake. At the showing, an inclined shaft explored a quartz vein and another shaft explored

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

an amphibolite unit hosting chalcopyrite.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Occasional Upper Paleozoic ultramafic rocks are associated with the Harper Ranch. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

Amphibolite and hornblendite of Upper Paleozoic(?) age hosts copper and gold mineralization. The amphibolite hosts disseminated pyrrhotite, chalcopyrite, pyrite, magnetite and malachite. Chalcopyrite-pyrrhotite and magnetite stringers, up to 3 millimetres thick, are reported. The chalcopyrite occurs as disseminated grains or along pyrrhotite or magnetite stringers. Samples taken in 1987 assayed low values, the highest was 0.017 gram per tonne gold (Assessment Report 18983).

A 2.5-metre inclined shaft was driven along the footwall of a narrow barren quartz vein striking 223 degrees and dipping 45 degrees northwest.

From 1897 to 1899, an 11-metre shaft was sunk and in 1903 the claim was Crown-granted. The showing was sampled by G. Benvenuto in 1988.

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW036

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW037

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5565780 EASTING: 330934

REPORT: RGEN0100

376

NAME(S): **BACHELOR**, BACHELOR NO.1, BACHELOR NO.2, BATCHELOR

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L03W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 13 12 N LONGITUDE: 119 22 12 W ELEVATION: 690 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location is in the northwest 1/4, Section 13, Township 13 (Record of

Mineral Claim).

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Gold Pyrite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hvdrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1896 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** Grams per tonne 35,0000

COMMENTS: A representative sample taken from depth (\$22 per tonne). REFERENCE: Minister of Mines Annual Report 1896, page 579.

**CAPSULE GEOLOGY** 

The Bachelor showing is located 8 kilometres southwest of Vernon, east of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Granitic Coryell rocks of Eocene age intrude these rocks and patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein in Middle Jurassic quartz diorite hosts gold and copper mineralization. The 1.1 to 2.4-metre thick vein carries pyrite, chalcopyrite and native gold. Selected surface samples assayed up to 800 grams per tonne gold (\$480) while more representative samples taken at depth assayed 35 grams per tonne (\$22) (Minister of Mines Annual Report 1896).

By 1899, exploration included the sinking of 2 shafts, totalling 12 metres, and 17 metres of tunnels.

**BIBLIOGRAPHY** 

EMPR AR \*1896-579; \*1899-747; 1934-D34

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR RGS 1976
GSC MAP 46-7, 48-4A, 1059A, 1712A
GSC MEM 296, p. 141
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT \*1931A, p. 75

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW038

NATIONAL MINERAL INVENTORY:

NAME(S): **RITA**, RETA

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

LATITUDE: 50 15 51 N

NORTHING: 5570554 EASTING: 335406

PAGE:

REPORT: RGEN0100

378

LONGITUDE: 119 18 34 W ELEVATION: 440 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Approximate location from corrected description in Minister of Mines

Annual Report 1914.

COMMODITIES: Silver Copper Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Unknown MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Unknown

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Rita showing is located approximately 3 kilometres west of

Vernon.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Occasional Paleozoic ultramafic rocks are associated with the Harper Ranch Group.

units are intruded by Middle Jurassic granitic rocks and patches of Eocene Kamloops Group volcanic rocks overlie the older rocks.

Samples assayed up to 2500 grams per tonne silver, 1.4 per cent copper and 3 grams per tonne gold (Minister of Mines Annual Report 1914, page 360). By 1914 two open cuts, 15 and 6 metres, had been completed. No other information is available on this showing.

**BIBLIOGRAPHY** 

EMPR AR \*1914-360 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A GSC MEM 296, p. 149 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW039

NATIONAL MINERAL INVENTORY:

NAME(S): MISSION HILL EAST

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

379

LATITUDE: 50 12 03 N

NORTHING: 5563524 EASTING: 334831

LONGITUDE: 119 18 52 W ELEVATION: 500 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, Fig. 7).

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal STRATIGRAPHIC AGE GROUP FORMATION

Middle Jurassic

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

CAPSULE GEOLOGY

The Mission Hill East showing is located 8 kilometres south-

southwest of Vernon, west of Kalamalka Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks informally named the Terrace Creek batholith. Granitic Coryell rocks of Eocene age intrude these units and patches of Eocene Kamloops Group volcanic rocks overlie older rocks.

Quartz-calcite stringers and lenses within Middle Jurassic quartz diorite host silver, copper and gold mineralization. The irregular stringers and lenses carry disseminations, streaks and bunches of pyrite and minor chalcopyrite. The zone of quartz is several metres wide. The wall-rock also contains disseminated sulphide mineralization.

By 1931, exploration had been carried out by means of a 60-metre tunnel.

**BIBLIOGRAPHY** 

EMPR AR \*1928-221 pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363 EMPR FIELDWORK 1982,

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 147 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 77, 84

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW040

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5565418 EASTING: 336575

REPORT: RGEN0100

380

NAME(S): MILLIGAN, SALLY BROWN (L. 4710), OLD MAN, ALBERTA, TRANSMERE

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L03W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 13 06 N LONGITUDE: 119 17 27 W ELEVATION: 520 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Old trenches on Lot 4710.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Breccia Disseminated

CLASSIFICATION: Epigenetic Hydrothermal COMMENTS: Breccia zone is up to 60 metres thick and 150 metres high.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Harper Ranch Undefined Formation

Jurassic Nelson Intrusions

LITHOLOGY: Quartz Limestone Breccia

Limestone Granite

Sediment/Sedimentary

HOSTROCK COMMENTS: Mineralization occurs in a breccia zone near the contact between

the granitic rocks and the Devonian to Triassic sedimentary rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1902

SAMPLE TYPE: Grab COMMODITY GRADE

Gold 5.0000 Grams per tonne

COMMENTS: Highest gold value reported. REFERENCE: Minister of Mines Annual Report 1902, page 188.

CAPSULE GEOLOGY

The Milligan showing is located 5 kilometres south-southwest of Vernon, at the edge of Kalamalka Lake.
In this area, west of the Okanagan Valley fault zone, volcanic

and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by the Jurassic Nelson Intrusions. Granitic Coryell rocks of Eocene age intrude these rocks.

 $\ensuremath{\mathtt{A}}$  breccia zone in limestone, near the contact with  $\ensuremath{\mathtt{Middle}}$ Jurassic granitic rocks, hosts gold mineralization. The zone, up to 60 metres thick and 150 metres high, contains quartz fragments and free gold. Gold values up to 5 grams per tonne are reported (Minister of Mines Annual Report 1902 p. 188).

The occurrence was first described in 1902. Development

Development includes one small adit, trending west-northwest, about 200 metres north of the breccia zone and 100 metres west of the edge of the lake.

MINFILE NUMBER: 082LSW040

# MINFILE MASTER REPORT

PAGE: 381 GEOLOGICAL SURVEY BRANCH REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1902-188
EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363
EMPR MAP 7216G, 8512G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 1059A, 1712A
GSC MEM 296, p. 147
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW041

NATIONAL MINERAL INVENTORY:

NAME(S): COPPER KING, KIK, PETE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03E

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 03 30 N

NORTHING: 5547499 EASTING: 340383

PAGE:

REPORT: RGEN0100

382

LONGITUDE: 119 13 48 W ELEVATION: 1350 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: The location is now under Swalwell Lake (Assessment Report 1095).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite Copper

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Proterozoic-Paleoz.

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Feldspar Amphibolite Gneiss

GROUP

HOSTROCK COMMENTS: Shuswap Terrane gneiss is intruded by pegmatite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Undivided Metamorphic Assembl.

PHYSIOGRAPHIC AREA: Okanagan Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The Copper King showing is located 21 kilometres southeast of

Vernon, below the flood level of Swalwell Lake. In this area, metamorphic rocks of the Shuswap Terrane are

intruded by Middle Jurassic granitic rocks. Volcanic and sedimentary rocks of both Eocene and Miocene ages cap the older rocks. Feldspar amphibolite gneiss hosts copper mineralization.

Pyrite, traces of copper mineralization and specks of native copper

occur in foliated seams and in fractures.

The first record of this occurrence is in 1929. In 1967, Kokanee Moly Mines Ltd. conducted soil geochemistry. In 1973-75, Westley Mines Ltd. carried out magnetic, electromagnetic and induced polarization surveys. In 1975, Granges Exploration conducted a program of soil geochemistry and drilling. completed an electromagnetic survey in 1981. Westley Mines Ltd.

**BIBLIOGRAPHY** 

EMPR AR \*1929-249

EMPR ASS RPT \*1095, 4798, 4799, 4800, 5412, \*5796, 10093 EMPR EXPL 1975-E51; 1981-200

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM 1973-99 EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296, p. 143 GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW042

NATIONAL MINERAL INVENTORY:

PAGE:

EASTING: 317325

REPORT: RGEN0100

383

NAME(S): WHITE ELEPHANT (L. 4880), PRE-CAMBRIAN PINE (L.4883), RALFRED NO. 2 (L.5042), EAST (L.5044), WEST (L.5045),

EDWARD (L.5046)

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Vernon

NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 08 53 N NORTHING: 5558223

LONGITUDE: 119 33 25 W ELEVATION: 1030 Metres LOCATION ACCURACY: Within 500M COMMENTS: Shaft on Lot 4880.

COMMODITIES: Gold Silver Bismuth Tellurium Tungsten

**MINERALS** 

SIGNIFICANT: Tetradymite Pyrrhotite Chalcopyrite Scheelite Gold

ASSOCIATED: Quartz Pyrit
MINERALIZATION AGE: Mesozoic-Cenozoic Pyrite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Mesothermal Podiform Massive

TYPE: I01 102 Au-quartz veins Intrusion-related Au pyrrhotite veins

SHAPE: Regular MODIFIER: Fractured Faulted Metres

STRIKE/DIP: 045/60N DIMENSION: 30 x 10 TREND/PLUNGE:

COMMENTS: Surface dimensions of vein.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGNALLIS.
Paleozoic-Mesozoic STRATIGRAPHIC AGE **FORMATION** Harper Ranch Unnamed/Unknown Formation

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Hornblende Biotite Granodiorite

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

**CAPSULE GEOLOGY** 

The White Elephant showing is located  $25\ \mathrm{kilometres}$  west-southwest of Vernon, north of Shorts Creek.

In this area, Middle Jurassic granitic rocks of the informally named Terrace Creek batholith intrude Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group.

Penticton Group volcanic and sedimentary rocks cover the older units.

A quartz vein or lens in granodiorite hosts gold, silver,
tungsten, bismuth and tellurium. The highly fractured and faulted quartz vein strikes northeast and dips 60 degrees northwest. vein, greater than 10 metres thick, is traceable on surface for at least 30 metres. A pod of massive pyrrhotite, up to 4 metres thick, occurs at the footwall contact, although the best gold values occur in lenses and stringers some distance from the vein wall. Pyrrhotite, pyrite, chalcopyrite and tetradymite (gold-bearing bismuth telluride) occur as lens-like bodies with the vein. Stringers and segregations of bismuth telluride, free gold and scheelite are also reported. Ore-shoots are up to 7.5 metres thick and 15 metres long. Underground workings include a 91-metre inclined shaft with four levels of development to a depth of 60 metres. In 1921, a 2-metre shaft had been completed and in 1922 about

264 tonnes of mineralized rock were shipped producing 5,257 grams of silver and 13,468 grams of gold. In 1924, Okanagan Premier Mines Ltd. extended the shaft to 30 metres and drove a 60-metre crosscut In 1928, Pre-Cambrian Mines Ltd. continued underground exploration and in 1929, mining from the pyrrhotite lens produced 27 tonnes of pyrrhotite concentrate, containing low gold values. Production from the quartz vein during the period 1933-35, totalled 4882 tonnes and produced 4,292 grams of silver and 49,702 grams of gold.

MINFILE NUMBER: 082LSW042

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

```
EM OF 1999-3
EMPR AR *1921-192,196; *1922-144; 1923-159; *1924-140;
    1927-213; 1928-220; *1929-248,441; *1930-207,208; 1931-116;
    *1932-143; *1933-A196; 1934-A24,29,C36(photo),*D29-30,31;
    1935-A24,30,D13; 1950-115
EMPR BC METAL MM00443
EMPR BULL *1(1932), p. 79; 10(1943), p. 117; 20(1944)
    Part III, p. 24, 25
EMPR EXPL 1978-E92; 1979-100; 1980-132; 1987-C90;
    1988-A21,A43,*B35-38
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
EMPR INF CIRC 1989-1, p. 26
EMPR INDEX 3-218
EMPR MAP 37, 5207G, 7216G
EMPR OF 1989-5, 1990-30, 1991-17, p. 31, 1999-3
EMPR P 1982-1, p. 9; 1987-15, p. 43; 1989-1, p. 35
EMPR P 1982-1, p. 9; 1987-15, p. 43; 1989-1, p. 35
EMPR PF (In 082LSW General - Claim Map, 1966; Lucky 7 Exploration Ltd., Prospectus, June 1988)
GSC MAP 46-7, 1059A, 1712A
GSC MAP 46-7, 1059A, 1712A
GSC MAP 46-7, 1059A, 1712A
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT *1931A, pp. 79, 86-90
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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW043

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

385

NAME(S): <u>DOBBIN NORTH</u>, DOBBIN, TAD 7, TAD, FLOP

STATUS: Showing MINING DIVISION: Nicola

REGIONS: British Columbia NTS MAP: 082L04W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 03 09 N LONGITUDE: 119 47 52 W NORTHING: 5548218 EASTING: 299724

ELEVATION: 1720 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Area of drilling (Assessment Report 8456).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic Garnet Pyrite Séricite Sericitic MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork Disseminated CLASSIFICATION: Porphyry Igneous-contact

Ću skarn TYPE: K01 L03 Alkalic porphyry Cu-Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Paleozoic-Mesozoic Harper Ranch Undefined Formation

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Monzonite

Garnet Skarn Calcareous Argillite

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional Quesnel **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1980 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

**GRADE** 

Per cent Molvbdenum 0.0160

COMMENTS: Sample is from 53 metres of percussion drill cuttings.

The hole ended in mineralization. REFERENCE: Assessment Report 8456.

**CAPSULE GEOLOGY** 

The Dobbin North showing is located 28 kilometres northwest of Kelowna, east of Dome Rock Mountain.

In this area, Devonian to Triassic Harper Ranch Group argillaceous rocks, basalt tuffs and flows, minor rhyolite and limestone are intruded by Middle Jurassic monzonite of the informally named Terrace Creek batholith.

Chloritized and sericitized monzonitic rocks and garnet skarn (calcareous argillite) host molybdenum mineralization. Quartz veinlets carry disseminated pyrite and molybdenite. Drilling samples assayed from 0.039 per cent molybdenum over 3 metres to 0.016 per cent molybdenum over 53 metres (Assessment Report 8456).

In 1979-80, Cominco Ltd. carried out geological mapping, soil geochemistry and drill programs. The area was explored for gold mineralization in 1987, 1988 and 1990 by Chevron Minerals Ltd. and Inco Exploration and Technical Services Inc.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7596, \*8456, 17095, 18550, 20831

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR EXPL 1979-101

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363; 2000, pp. 191-222

EMPR MAP 5207G, 7216G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167

GSC P 89-1E pp. 51-60

Chevron File

Chevron File

CODED BY: DISC REVISED BY: DISC DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

FIELD CHECK: Y FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW044

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

387

NAME(S): ZION, ZION MOUNTAIN, HOMESTAKE (L. 1690), NO. 1-4

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 08 24 N LONGITUDE: 119 34 52 W NORTHING: 5557387 EASTING: 315568

ELEVATION: 620 Metres LOCATION ACCURACY: Within 500M COMMENTS: Adit on Lot 1690.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold

ASSOCIATED: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: I01 Au Hvdrothermal

Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** 

Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Volcanic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Harper Ranch

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1907 Assay/analysis

COMMODITY **GRADE** Gold 8.0000 Grams per tonne

COMMENTS: Highest gold value reported.

REFERENCE: Minister of Mines Annual Report 1907, page 128.

**CAPSULE GEOLOGY** 

The Zion showing is located 26 kilometres west-southwest of

Vernon, adjacent to Shorts Creek.

In this area, Middle Jurassic granitic rocks intrude sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. Eocene Penticton Group volcanic and sedimentary rocks occur nearby,

overlying the older units.

A quartz vein, 0.4 metre thick, in Harper Ranch volcanic rocks carries free gold. Reported values range from 3 to 8 (\$2-\$5) grams per tonne gold (Minister of Mines Annual Report 1907, page 128).

By 1907, 50 metres of tunnels had been developed to explore the

vein.

**BIBLIOGRAPHY** 

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EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296 p. 151

736, 2167

GSC OF 637 (Map C), 7 GSC P 89-1E pp. 51-60

MINFILE NUMBER: 082LSW044

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT 1931A, p. 79

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW045

NATIONAL MINERAL INVENTORY: 082L5 Mo1

PAGE:

NORTHING: 5591257

EASTING: 299879

REPORT: RGEN0100

389

NAME(S): KENALLAN, BUM, MOLY, CHIP, YOKAHAMA, BRENDA, WIN, GRAND PRAIRIE, KEY, FOREST QUEEN, ALICE HAY, HENRIETTA, NELSON, SIX-MILE CREEK, SILVER WEDDING,

BONACCORD

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L05W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 26 21 N LONGITUDE: 119 49 06 W

ELEVATION: 890 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Shaft on the West Skarn Zone (Assessment Report 2360).

COMMODITIES: Molybdenum Copper Gold

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite ASSOCIATED: Pyrite K-Feldspar

ALTERATION: Pyroxene Garnet Wollastonite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Triassic-Jurassic

**DEPOSIT** CHARACTER: Stratabound

Disseminated CLASSIFICATION: Skarn Igneous-contact

TYPE: L03 Alkalic porphyry Cu-Au

K07 Mo skarn SHAPE: Tabular

DIMENSION: 335 x Metres STRIKE/DIP: 180/50W TREND/PLUNGE:

COMMENTS: Surface dimensions(length x width) and attitude of the West Skarn

zone.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation Triassic-Jurassic Klotassin Intrusions

LITHOLOGY: Cherty Siltstone

Cherty Argillite
Diopside Garnet Skarn

Diorite Marble

HOSTROCK COMMENTS: The Devonian to Triassic Harper Ranch Group is intruded by the

Klotassin Intrusions.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch RELATIONSHIP: Syn-mineralization METAMORPHIC TYPE: Contact GRADE: Hornfels

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1959 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**COMMODITY GRADE** Molybdenum 3.6100 Per cent

COMMENTS: Commodity is Molybdenite. Highest value from samples.

REFERENCE: Assessment Report 282.

CAPSULE GEOLOGY

The Kenallan prospect is located 19 kilometres west of Falkland,

southwest of Westwold.

In this area, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Granitic rocks of the Triassic to Jurassic Klotassin Intrusions intrude the Harper Ranch and Nicola groups. Extensive

Eocene Kamloops Group volcanic rocks cap the older rocks.

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

The Harper Ranch Group hosts molybdenum and lesser copper mineralization. Within commonly hornfelsed cherty siltstones and argillites, two narrow stratabound skarn zones, 150 metres apart, host clusters of coarse books, rosettes and fine disseminations of molybdenite and minor chalcopyrite and pyrite. The skarn mineralogy includes pyroxene, garnet, and wollastonite.

includes pyroxene, garnet, and wollastonite.

The West Skarn Zone, 335 metres long, 0.15 to 2.4 metres thick, and the East Skarn Zone, 245 metres long, 0.15 to 2.4 metres thick, are erratically mineralized. The skarn zones grade into marble along strike. Molybdenite mineralization also occurs in small granitic apophyses.

Samples taken by government engineers assayed as high as 3.61 per cent molybdenite (Assessment Report 282). Several excavations were made from which 45 to 67 tonnes of ore grading 1 to 2 per cent, were removed (Assessment Report 282).

The showings were discovered by 1892. By 1901, an exploration shaft and open cuts had been recorded on 5 claims. In 1959, Noranda Exploration carried out geological mapping. In 1966, Northwest Ventures Ltd. conducted trenching and drilling programs. Dresser Industries, in 1966, carried out geological mapping, soil geochemistry and magnetometer surveys. In 1978-80, Denar Mines Ltd. carried out geological mapping, trenching and drill programs. In 1981 Score Resources Ltd. conducted electromagnetic and magnetic surveys.

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DATE CODED: 1985/07/24 DATE REVISED: 1995/03/13 CODED BY: GSB REVISED BY: GR FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW046

NATIONAL MINERAL INVENTORY:

NAME(S): SIWASH, SIWASH 3, NASH

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 17 11 N LONGITUDE: 119 36 12 W ELEVATION: 1550 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 20226).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Tertiary

Chalcedony Pyrite Goethite Hematite Oxidation

**DEPOSIT** 

Disseminated

CHARACTER: Vein
CLASSIFICATION: Epithermal
TYPE: L03 Alk Alkalic porphyry Cu-Au DIMENSION: 3000 x 750 x 150 Metres COMMENTS: Dimensions of the alteration zone.

TREND/PLUNGE: STRIKE/DIP:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene

**GROUP** Penticton **FORMATION** Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5573715 EASTING: 314549

REPORT: RGEN0100

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LITHOLOGY: Trachytic Tuff

Trachýandesite Flow

Breccia Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage
METAMORPHIC TYPE: Regional

Plutonic Rocks RELATIONSHIP: PHYSIOGRAPHIC AREA: Thompson Plateau

GRADE: Zeolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Grab

YEAR: 1989

COMMODITY Silver

**GRADE** 16,6000

Gold

Grams per tonne 5.5000 Grams per tonne

COMMENTS: Highest values from sampling. REFERENCE: Assessment Report 20226.

CAPSULE GEOLOGY

The Siwash showing is located 23 kilometres west of Vernon,

between Bouleau and Naswhito Creeks.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Penticton Group volcanic and sedimentary rocks overlie the older units.

A trachytic tuff-breccia paleochannel deposit is in fault contact with trachyandesite flows. A large alteration zone with silica flooding, chalcedonic quartz stockworks and hematitic and goethite staining predominates within the tuffaceous rocks. The alteration zone is 3000 by 750 by 150 metres in area. Minor, very fine-grained pyrite occurs in drusy quartz veinlets. These quartz veinlets, within altered tuffs and flows, carry gold and silver mineralization. Samples assayed up to 5.55 grams per tonne gold and 16.6 grams per tonne silver (Assessment Report 20226).

In 1989, Prosperity Gold Corporation carried out geological mapping, soil geochemistry, magnetic and VLF-EM surveys.

MINFILE NUMBER: 082LSW046

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR ASS RPT 12030, 19100, \*20226

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363

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EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167G

GSC P 89-1E pp. 51-60

PR REL Solomon Resources Ltd., Feb.14, 18, 2003

WWW http://www.bmts.bc.ca/srb/

DATE CODED: 1993/03/31 DATE REVISED: 1993/06/03 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW047

NATIONAL MINERAL INVENTORY:

NAME(S): BREWER, BRETT 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

393

LATITUDE: 50 14 03 N LONGITUDE: 119 39 00 W ELEVATION: 1325 Metres

NORTHING: 5568027 EASTING: 311018

LOCATION ACCURACY: Within 500M

COMMENTS: Mid-point between pits on the No. 1 and 2 veins, 350 metres apart

(Assessment Report 19482).

COMMODITIES: Gold Silver Copper I ead 7inc

**MINERALS** 

SIGNIFICANT: Gold Chalcopyrite Galena Sphalerite

ASSOCIATED: Quartz Pyrit MINERALIZATION AGE: Mesozoic-Cenozoic Pyrite

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Mesothermal SHAPE: Tabular

DIMENSION: STRIKE/DIP: 150/25E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Foliated Granodiorite

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1986 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 190,0000 Grams per tonne 40.0000 Gold Grams per tonne

COMMENTS: Highest assays from sampling. REFERENCE: Assessment Report 15564.

**CAPSULE GEOLOGY** 

The Brewer showing is located 28 kilometres west of Vernon, on

the steep north slope of Whiteman Creek Valley.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Eccene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude the Jurassic and Eocene rocks.

Quartz veins within Middle Jurassic foliated granodiorite host

gold, silver, copper, lead and zinc mineralization. Two narrow quartz veins, 0.1 to 0.5 metre thick, of limited strike length and galana and sphalerite. Samples assayed up to 40 grams per tonne gold and 190 grams per tonne silver (Assessment Report 15564).

The showings were discovered in 1939 by A. Brewer. In 1984-86,

Huntington Resources Ltd. carried out geological mapping and soil

geochemistry.

**BIBLIOGRAPHY** 

EMPR ASS RPT 13469, 13471, \*15564, \*19482 EMPR EXPL 1984-100,101; 1985-A39,62; 1986-A28,64

EMPR FIELDWORK 1987, pp. B15-22, 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30

EMPR RGS 1976

MINFILE NUMBER: 082LSW047

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (In 082LSW General - Claim Map, 1966) GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Placer Dome File

CODED BY: DISC REVISED BY: DISC DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

FIELD CHECK: Y FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW048

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5565061 EASTING: 314465

REPORT: RGEN0100

395

NAME(S): **PAT**, WHIT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 12 31 N LONGITUDE: 119 36 01 W ELEVATION: 1230 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of a kaolin zone (Assessment Report 6572).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite **Bornite** 

ALTERATION: Kaolin Jarosite Silica

Limonite ALTERATION TYPE: Argillic Silicific'n Oxidation

MINERALIZATION AGE: Tertiary

**DEPOSIT** 

CHARACTER: Disseminated Breccia CLASSIFICATION: Porphyry TYPE: L03 Alkalic porphyry Cu-Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** 

Eocene Corvell Intrusions

LITHOLOGY: Rhyodacite Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

CAPSULE GEOLOGY

The Pat showing is located 24 kilometres west-southwest of

Vernon, on the steep south side of Whiteman Creek valley.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are intruded by Middle Jurassic granitic rocks. An Eocene Coryell rhyodacite to syenite porphyry, high-level plug intrudes and is in fault contact with the Jurassic intrusions.

Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

An altered, bleached, fractured and brecciated zone within the rhyodacite porphyry hosts Tertiary, possibly Eocene, copper mineralization. Chalcopyrite, bornite, jarosite and limonite are reported. Alteration envelopes of kaolinized feldspars, talc(?) and silicification occur along fractures, usually less than 10

centimetres thick.

In 1967-68, Noranda Exploration Co. Ltd. carried out a program of geological mapping, soil geochemistry and drilling. During 1975-77, Canadian Occidental Petroleum Ltd. carried out uranium

exploration on the property.

**BIBLIOGRAPHY** 

EMPR AR 1967-222,223; 1968-223 EMPR ASS RPT 1039, 5692, 6052, \*6572, 7811, 18004, 19626

EMPR EXPL 1975-E51,52; 1976-E54; 1977-E78,79; 1979-101; 1980-133

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

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GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

PAGE: 396 REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW049

NATIONAL MINERAL INVENTORY:

UTM ZONE: 11 (NAD 83)

NORTHING: 5592281

EASTING: 299780

NAME(S): WESTWOLD, ANNIS INDUSTRIES, MONTE LAKE

STATUS: Past Producer Open Pit MINING DIVISION: Kamloops

REGIONS: British Columbia

NTS MAP: 082L05W BC MAP:

LATITUDE: 50 26 54 N LONGITUDE: 119 49 13 W ELEVATION: 870 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry (Assessment Report 9972).

COMMODITIES: Marble **Dimension Stone Building Stone** Aggregate

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Permian

**DEPOSIT** 

Stratiform

CHARACTER: Massive CLASSIFICATION: Sedimentary Industrial Min. Igneous-contact

TYPE: R04 R09 Dimension stone - marble Limestone

R15 SHAPE: Tabular Crushed rock

MODIFIER: Fractured

DIMENSION: 2000 x 75 Metres STRIKE/DIP: COMMENTS: Dimension is for marble knoll. The age of limestone recrystallization STRIKE/DIP: 150/30W TREND/PLUNGE:

is probably Triassic-Jurassic.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation Triassic-Jurassic Klotassin Intrusions

LITHOLOGY: Marble

Limestone

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic, the limestone is

Permian.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1968 Assay/analysis

SAMPLE TYPE: Grab

**COMMODITY** Per cent Limestone

COMMENTS: Grade given is for CaO.

REFERENCE: Minister of Mines Annual Report 1968, page 322, average of 2 samples.

CAPSULE GEOLOGY

The Westwold showing is located 19 kilometres west of Falkland,

southwest of Westwold.

In this area, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Triassic to Jurassic granitic rocks of the Klotassin intrusions intrude the Harper Ranch and Nicola groups. Extensive

Eocene Kamloops Group volcanic rocks cap the older rocks.

The Harper Ranch includes a Permian limestone, contact

metamorphosed to marble, which has been quarried for industrial use. The 2000-metre long, 75-metre wide massive marble is in contact with granodiorite to the north and grades into a skarn zone of to the south at the Kenallan prospect (082LSW045). The marble is white, medium to coarse-grained and has abundant fractures at 10 to 40-centimetre spacings. Sampling in 1968 returned 54.8 per cent CaO, 0.47 per cent MgO, 0.07 per cent Fe2O3 and insolubles at 0.85 per cent (Minister of Mines Annual Report 1968, page 322).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

The deposit was put into production in 1968 by Annis Industries Ltd. and up to 1970 produced 4810 tonnes of marble for stucco dash, roof rock, riprap and driveway rock.

**BIBLIOGRAPHY** 

EMPR AR 1967-309; \*1968-322

EMPR ASS RPT 9972

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EMPR MAP 5214G, 7216G EMPR OF 1989-5, 1990-30, 1992-18, p. 81, 82 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF 637 (Maps B,C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW050

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

398

NAME(S): KALAMALKA, CHANCE (L.2825), GUS

STATUS: Past Producer REGIONS: British Columbia

Underground MINING DIVISION: Vernon

NTS MAP: 082L03E

UTM ZONE: 11 (NAD 83) BC MAP: NORTHING: 5563596 EASTING: 350168

LATITUDE: 50 12 20 N LONGITUDE: 119 05 59 W ELEVATION: 910 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Extensive workings (Assessment Report 18043).

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Chalcopyrite Galena Sphalerite Pvrite Pyrrhotite

ALTERATION: Graphite **Sericite** Chlorite

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

Disseminated Shear

CHARACTER: Vein CLASSIFICATION: Mesothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au G04 Besshi massive sulphide Cu-Zn

SHAPE: Tabular MODIFIER: Sheared

STRIKE/DIP: 045/80W DIMENSION: 50 x 30 x 2 Metres TREND/PLUNGE: 225/80

COMMENTS: The dimensions and attitudes are of the main ore shoot.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** 

STRATIGNATING .... Paleozoic-Mesozoic Harper Ranch Unnamed/Unknown Formation

Jurassic Nelson Intrusions

LITHOLOGY: Foliated Hornblende Diorite

Argillaceous Sediment/Sedimentary

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Plutonic Rocks Harper Ranch

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Kalamalka mine is located 13 kilometres east-southeast of Vernon, west of Craster Creek.
In this area, east of the Okanagan Valley fault zone,

sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group and are in probable fault contact with metamorphic rocks of the Shuswap Terrane. Jurassic granitic plutons of the Nelson Intrusions intrude the older rocks. Eccene Penticton Group and Miocene Chilcotin Group volcanic

and sedimentary rocks cap areas of older rock.

A shear zone within foliated diorite, near the contact with metamorphosed Harper Ranch sediments, hosts gold, silver, copper, zinc and lead mineralization. The 7 metre-thick, northeast-southwest striking and steeply northwest-dipping shear is occupied by quartz veins and lenses. The 2 to 25 centimetre-thick quartz bands  $\,$ alternate with zones of altered diorite and argillaceous sediments. Pyrite and graphite are common throughout the shear. Native gold, pyrrhotite, chalcopyrite, and minor galena and sphalerite occur as disseminations in the quartz veins and pods and in the chloritequartz matrix of the shear. The gold mineralization is concentrated in shoots which plunge steeply and occur progressively deeper to the southwest. The main ore shoot was about 30 metres long, 50 metres deep and 2.5 metres thick. Sericite and chlorite alteration is present up to 0.5 metre from the veins. Carbonate (calcite) flooding of the hangingwall, up to several metres thick, has occurred

locally.

By 1897, an 8-metre shaft had been sunk on the vein, and by 1934, an additional 43 metres of crosscuts and drifts had been

completed.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Mining commenced in 1935 and continued until 1944. The mine was developed on 3 main levels through one adit. A total of 6592 tonnes of direct-shipping ore produced 108,052 grams of silver, 90,137 grams of gold, 208 kilograms of copper, 420 kilograms of lead and 172 kilograms of zinc. Base metals were only reported for a few shipments.

In 1967, Coin Canyon Mines Ltd. did minor exploration drilling. In 1987-88, Triple Star Resources Ltd. carried out rehabilitation of underground workings, geological mapping, trenching, an induced polarization survey and drilling.

#### **BIBLIOGRAPHY**

```
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EMPR ASS RPT *16442, *18043, 21454

EMPR BC METAL MM00431

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EMPR EXPL 1987-A28,C88; 1988-A21,43,C54

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EMPR INDEX 3-201

EMPR INF CIRC 1988-1, p. 26; 1989-1, p. 26

EMPR MAP 7216G, 8512G

EMPR MAP 7216G, 8512G

EMPR OF 1989-5; 1990-30; 1991-19, p. 32

EMPR PF (In 082LSW General - Claim Map, 1966; Triple Star Resources Corp., Prospectus, Jan. 1988)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MAP 46-7, 48-4A, 1059A, 1712A

GSC MEM *296, p. 145, 153

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT 1931A, p. 75
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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW051

NATIONAL MINERAL INVENTORY:

NAME(S): <u>AT</u>, DUN, ESPERON 18, ESPERON, DOBBIN

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082L04E

BC MAP:

LATITUDE: 50 07 35 N LONGITUDE: 119 42 35 W

ELEVATION: 1600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Southern trench (Assessment Report 4133).

COMMODITIES: Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite ASSOCIATED: Quartz Pyrite Séricite

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic MINERALIZATION AGE: Jurassic

Epidote **Epidote** Sericitic

**DEPOSIT** 

CHARACTER: Stockwork Disseminated

CLASSIFICATION: Porphyry

TYPE: L03 / A SHAPE: Irregular Álkalic porphyry Cu-Au

MODIFIER: Fractured

HOST ROCK

Middle Jurassic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP** 

Triassic-Jurassic

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5556199 EASTING: 306325

REPORT: RGEN0100

400

Unnamed/Unknown Informal

LITHOLOGY: Quartz Monzonite Porphyry

Argillaceous Sediment/Sedimentary

HOSTROCK COMMENTS: Plutonic rocks are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

Quesnel

PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

The AT showing is located 29 kilometres north-northwest of Kelowna, north and west of Dun Waters Creek.

In this area, Middle Jurassic quartz monzonite of the informally named Terrace Creek batholith intrudes argillaceous sediments of the Upper Triassic to Lower Jurassic Nicola Group. The stock is intruded by diorite plugs and dikes which are cut by quartz monzonite and The intrusive rocks are cut by Tertiary basalt dikes aplite dikes.

related to volcanic rocks which overlie the older rocks.

Chloritized and sericitized, moderately fractured quartz monzonite porphyry hosts molybdenum and a trace of copper mineralization. Quartz veinlets, usually 1 to 10 centimetres thick, carry disseminated molybdenite, pyrite and traces of chalcopyrite. Pyrite and molybdenite occur on fracture planes. Alteration is associated with the quartz stockwork and the fractures.

About 1 kilometre to the northwest, sericite and epidote-altered

quartz monzonite porphyry hosts quartz veinlets carrying a trace of disseminated molybdenite.

In 1966-67, Noranda Exploration Co. Ltd. carried out soil geochemistry and trenching programs. In 1972, Canadian Johns-Manville Co. Ltd. carried out a soil geochemistry survey. In 1979-80, Cominco Ltd. carried out geological mapping, induced polarization and magnetometer surveys.

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EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR GEM 1972-79 EMPR MAP 37, 5207G, 7216G

MINFILE NUMBER: 082LSW051

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: Y

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW052

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

402

NAME(S): JIM, DEL, ADELPHI, WOOD

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L05W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 24 38 N LONGITUDE: 119 47 45 W NORTHING: 5588016 EASTING: 301357

ELEVATION: 950 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the mineralized area (Assessment Report 7718).

COMMODITIES: Molybdenum Tunasten Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Scheelite Chalcopyrite

ASSOCIATED: Quartz Pyrite

ALTERATION: Sericite
ALTERATION TYPE: Sericitic MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork Disseminated

CLASSIFICATION: Porphyry

TYPE: L03 / A SHAPE: Irregular Alkalic porphyry Cu-Au

MODIFIER: Fractured

COMMENTS: Mineralization is on fractures and in quartz veins.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Harper Ranch Undefined Formation

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Biotite Granodiorite

Quartzite Argillite Chlorite Schist Rhyolite Dike Aplite Dike

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic. Granodiorite of the

informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

CAPSULE GEOLOGY

The Jim showing is located 19 kilometres west-southwest of

Falkland, north of Adelphi Creek.

In this area, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Middle Jurassic granitic plutons intrude the Harper Ranch and Nicola, and Cretaceous granodiorite plugs intrude the Nicola.

Extensive Eocene Kamloops Group volcanic rocks cap the older rocks.

Middle Jurassic well-jointed biotite granodiorite intrudes

quartzites, with minor interbedded argillite, and metavolcanic chlorite schists. Later quartz-eye aplite and rhyolite dikes cut the above rocks. The granodiorite and, to a lesser degree, the quartzite host molybdenum, tungsten and minor copper mineralization.

Molybdenite occurs as disseminations and rosettes along fractures and as clots within sericitic vuggy quartz veinlets. Scheelite occurs in

quartz veinlets, chalcopyrite and pyrite are also present.

The showing was discovered by S. Brewer. In 1965, Bralorne
Pioneer Mines Ltd. carried out geological mapping, soil geochemistry and trenching programs. In 1967, D. Bonlie conducted a program of geological mapping, soil geochemistry and drilling. In 1972, Cutlass Exploration Ltd. conducted a trenching program. In 1975, Teck Corporation Ltd. prospected the property and in 1979 Hudson's Bay Oil and Gas Co. Ltd. carried out geological mapping, soil geochemistry,

MINFILE NUMBER: 082LSW052

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

induced polarization and magnetometer surveys.

**BIBLIOGRAPHY** 

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EMPR MAP 5214G, 7216G

EMPR OF 1989-5, 1990-30

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Chevron File

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW053

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5554770 EASTING: 307386

REPORT: RGEN0100

404

NAME(S): <u>ESPERON 2</u>, ESPERON, DOBBIN, ESP

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 06 50 N LONGITUDE: 119 41 39 W

ELEVATION: 1450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole 80-37 (Assessment Report 8664).

COMMODITIES: Molybdenum Tungsten

**MINERALS** 

SIGNIFICANT: Molybdenite Scheelite ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic Pyrite Séricite

Sericitic

MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork Disseminated

CLASSIFICATION: Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Monzonite Porphyry

Argillaceous Sediment/Sedimentary

Diorite

Quartz Monzonite Aplite Dike

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core YFAR: 1980

COMMODITY **GRADE** 

Molybdenum 0.0250 Per cent 0.0450 Per cent Tungsten

COMMENTS: The molybdenum grade is from an 8-metre drill intersection and the tungsten is from a 30-metre intersection above it.

REFERENCE: Assessment Report 8664.

CAPSULE GEOLOGY

The Esperon 2 showing is located 29 kilometres north-northwest of Kelowna, north of Dun Waters Creek.

In this area, Middle Jurassic quartz monzonite of the informally

In this area, Middle Jurassic quartz monzonite of the named Terrace Creek batholith intrudes argillaceous sediments of the Eocene Penticton Group. The stock is cut by diorite plugs and dikes which are intruded by quartz monzonite and aplite dikes. The which are intruded by quartz monzonite and aplite dikes. The intrusive rocks are cut by Tertiary basalt dikes related to volcanic rocks which overlie the older rocks.

Chloritized and sericitized quartz monzonite porphyry hosts molybdenum mineralization. Quartz veinlets, usually 1 to 10 centimetres thick, carry blebs of molybdenite, scheelite and pyrite. The bottom 8 metres of the drill hole assayed 0.025 per cent molybdenum (Assessment Report 8664). A 30-metre section above this zone assayed 0.045 per cent tungsten (Assessment Report 8664).

Another drill hole, 800 metres to the southeast, encountered 4.5

metres of 0.021 per cent molybdenum. In 1979 and 1980, Cominco Ltd. carried out geological mapping,

induced polarization, magnetometer and percussion drill programs.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7753, \*8664, 17916, 18986, 20271 EMPR EXPL 1979-99,100; 1980-131 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Chevron File

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW054

NATIONAL MINERAL INVENTORY:

NAME(S): ESPERON, DOBBIN

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 06 29 N LONGITUDE: 119 42 51 W ELEVATION: 1530 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 7753).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite ALTERATION: Chlorite Sericite

ALTERATION TYPE: Chloritic Sericitic MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic

Middle Jurassic

**FORMATION** Nicola

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

406

Unnamed/Unknown Informal

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5554173 EASTING: 305933

LITHOLOGY: Porphyritic Quartz Monzonite

Argillaceous Sediment/Sedimentary

Diorite

Quartz Monzonite Aplite Dike

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1979 Assay/analysis

GRADE COMMODITY

0.0210 Per cent Molvbdenum

COMMENTS: The grade is from a 25-metre chip sample.

REFERENCE: Assessment Report 8664.

CAPSULE GEOLOGY

The Esperon 1 prospect is located 29 kilometres north-northwest

of Kelowna, south of Dun Waters Creek.

In this area, Middle Jurassic quartz monzonite of the informally named Terrace Creek batholith intrudes argillaceous sediments of the Upper Triassic to Lower Jurassic Nicola Group. The stock is cut by diorite plugs and dikes which are cut by quartz monzonite and aplite dikes. The intrusive rocks are cut by Tertiary basalt dikes related

dikes. The intrusive rocks are cut by Tertiary basalt dikes related to overlying Eocene Penticton Group volcanic rocks.

Chloritized and sericitized porphyritic quartz monzonite hosts molybdenum mineralization. Quartz veinlets carry disseminated molybdenite and pyrite. A 25-metre chip sample assayed 0.021 per cent molybdenum (Assessment Report 8664).

About 600 metres to the east, straddling Dun Waters Creek, quartz veins carrying disseminated molybdenite cut chloritized and sericitized porphyritic quartz monzonite, adjacent to diorite, and a sericitized porphyritic quartz monzonite, adjacent to diorite, and a quartz monzonite dike intruding argillites.

In 1979-80, Cominco Ltd. carried out geological mapping, induced

polarization and magnetometer surveys.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7753, \*8664

MINFILE NUMBER: 082LSW054

# MINFILE MASTER REPORT

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EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MEM 296
GSC OF 637, 736, 2167
GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW055

NATIONAL MINERAL INVENTORY:

NAME(S): ESPERON, DOBBIN, ESP

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04E

BC MAP:

LATTTUDE: 50 05 56 N
LONGITUDE: 119 41 54 W
ELEVATION: 1480 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Showing (Assessment Report 7753).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic Pyrite Séricite

Sericitic

MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Porphyry

Disseminated

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Nicola

Middle Jurassic

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5553113 EASTING: 307028

REPORT: RGEN0100

408

Unnamed/Unknown Informal

LITHOLOGY: Porphyritic Quartz Monzonite

Argillaceous Sediment/Sedimentary

Quartz Monzonite

Aplite Dike

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

The Esperon 3 showing is located 28 kilometres north northwest

of Kelowna, north of Terrace Creek.

In this area, Middle Jurassic quartz monzonite of the informally named Terrace Creek batholith intrudes argillaceous sediments of the Upper Triassic to Lower Jurassic Nicola Group. The stock is cut by diorite plugs and dikes which are cut by quartz monzonite and aplite dikes. The intrusive rocks are cut by Tertiary basalt dikes related to overlying Eocene Penticton Group volcanic rocks.

Chloritized and sericitized porphyritic quartz monzonite hosts

molybdenum mineralization. Quartz veinlets carry traces of disseminated molybdenite and pyrite.

Quesnel

In 1979 and 1980, Cominco Ltd. carried out geological mapping,

induced polarization and magnetometer surveys.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7753, \*8664, 17916, 18986, 20271

EMPR EXPL 1979-99,100; 1980-131

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

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Chevron File

DATE CODED: 1993/03/31 DATE REVISED: 1993/04/08 CODED BY: DISC REVISED BY: DISC

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MINFILE NUMBER: 082LSW055

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW056

NATIONAL MINERAL INVENTORY: 082L4 Cr1

PAGE:

NORTHING: 5543371

EASTING: 294620

REPORT: RGEN0100

409

NAME(S): **CHROME-VANADIUM**, HORNE, CHROME RIDGE, ALOCIN CHROME, ROC, NAN-ROC,

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Nicola

NTS MAP: 082L04W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 00 26 N LONGITUDE: 119 51 59 W

ELEVATION: 1450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Old workings (Assessment Report 6775).

COMMODITIES: Chromium

**MINERALS** 

SIGNIFICANT: Chromite Magnetite Orthopyroxene

ASSOCIATED: Olivine ALTERATION: Serpentine Chrysotile

ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Podiform Disseminated Stratabound

CLASSIFICATION: Magmatic
TYPE: M03 Podiform chromite Industrial Min.

SHAPE: Tabular

MODIFIER: Sheared DIMENSION: 9000 Fractured

Metres STRIKE/DIP: 150/85E TREND/PLUNGE:

COMMENTS: The shape, dimension(length) and attitude are for the host rock. The

age of the chrysotile (asbestos) veins is unknown.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Chapperon Unnamed/Unknown Formation

Paleozoic Ultramafic Intrusions

LITHOLOGY: Serpentinized Harzburgite Phyllite

Gréenstone Mica Schist

HOSTROCK COMMENTS: The harzburgite is fault bounded in the Permian and older Chapperon

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Okanagan

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: The age of metasomatism of the harzburgite is unknown.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1977 SAMPLE TYPE: Grab

**COMMODITY** 

Per cent Chromium 28.0000

COMMENTS: The grade is the average of 7 selected samples of chromite

mineralization.

REFERENCE: Assessment Report 6775.

CAPSULE GEOLOGY

The Chrome-Vanadium showings are located 33 kilometres west-northwest of Kelowna, south of Alocin Creek. The showings are on top of a prominent northwest trending ridge. The Cameo Lake showings are

located 1600 metres to the southeast in O82E16W.

In this area, Devonian to Triassic volcanic and sedimentary rocks of the Harper Ranch Group and the Permian and older Chapperon Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Extensive Eocene Kamloops Group volcanic and sedimentary

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

rocks overlie the older units.

Serpentinized harzburgite in pelitic and volcanic rocks of the Chapperon Group hosts chromite and magnetite mineralization. This unit is likely a fault bounded remnant of lower crustal oceanic rocks. The unit, striking 150 degrees and dipping 85 degrees east has been traced for 9 kilometres. The pelitic rocks comprise phyllite, greenstone and mica schist.

Chromite occurs as closely spaced "kidneys", 1 to 3 centimetres in diameter, and as heavy disseminations of small angular aggregates. Several small lenses, containing 25 to 75 per cent chromite and up to 0.2 by 0.3 metres in area, are also present at the Alocin and Cameo Lake showings. Serpentine alteration is common, with lesser talc and chrysotile. Relict orthopyroxene indicates that the protolith was harzburgite. Sampling of high grade chromite pods averaged 28 per cent chromite (Assessment Report 6775). Heavy mineral sampling of stream sediments indicates the likely presence of gold and platinum mineralization.

The showings were initially staked as the Chrome-Vanadium group and prospected in the late 1920s by A.H. Raymer and Associates. Later, in the 1930s, the Chrome Ridge Mining Syndicate held claims that covered the better part of the serpentinite containing chromite mineralization. During that time a small amount of hand trenching, sampling and prospecting was done. In 1956, Noranda Exploration Company Ltd. did an extensive geological mapping, sampling, prospecting and aeromagnetic surveys of the area. By 1977, Nicola Copper Mines Ltd. and Buccaneer Resources Ltd. did further geological mapping, ground magnetometer surveys, soil sampling and trenching. At that time the Alocin and Cameo Lake showings were named. In 1986, the Laramie Mining Corp. collected heavy mineral samples. The showings are presently covered by the Jack 5 claim, owned by Rea Gold Corp.

Northwest along strike, prospecting on the Bart claims of Mineta Resources Ltd. has outlined the extension of the serpentinite and further probable chromite mineralization (W. Kovacevic, personal communication, 1990).

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EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 46-7, 1059A, 1712A
GSC MEM 296, pp. 143, 145
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
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GCNL #147, #212, 1977; #118, 1978
Whittaker, P. (1983): *Geology & Petrogenesis of Chromite and Chrome Spinel in Alpine-type Peridotites of the Cache Creek Group; unpublished Ph.D. Thesis, Carleton University
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DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW057

NAME(S): LONE STAR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04W BC MAP:

LATITUDE: 50 12 13 N LONGITUDE: 119 57 49 W ELEVATION: 1130 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada Map 48-4A and Open File 637).

COMMODITIES: Ashestos

**MINERALS** 

SIGNIFICANT: Chrysotile ASSOCIATED: Serpentine ALTERATION: Serpentine ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Metamorphic Hydrothermal Industrial Min.

TYPE: M06 Ultramafic-hosted asbestos

SHAPE: Tabular DIMENSION: 1500 STRIKE/DIP: 150/ TREND/PLUNGE: Metres

COMMENTS: The shape, dimension(length) and attitude are for the host rock.

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE <u>GROUP</u>

Paleozoic Unnamed/Unknown Formation Ultramafic Intrusions Paleozoic

LITHOLOGY: Serpentinized Harzburgite

The harzburgite is fault bounded in the Permian and older Chapperon HOSTROCK COMMENTS:

Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

**FORMATION** 

TERRANE: Okanagan METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: The age of metasomatism of peridotite is unknown.

**CAPSULE GEOLOGY** 

The Lone Star showing is located 50 kilometres west of Vernon,

on the south side of Chapperon Creek.

In this area, Devonian to Triassic volcanic and sedimentary rocks of the Harper Ranch Group and the Permian and older Chapperon Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Serpentinized harzburgite of the Chapperon Group hosts

chrysotile (asbestos) mineralization. The unit has been traced for

1.5 kilometres and strikes 150 degrees.

**BIBLIOGRAPHY** 

pp. 55-58; 1988, pp. 355-363 EMPR FIELDWORK 1987,

EMPR MAP 5207G, 7216G EMPR OF 1989-5, 1990-30; 1995-25

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, \*48-4A, 1712A

GSC MEM 296 GSC OF \*637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31

PAGE:

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Nicola

UTM ZONE: 11 (NAD 83)

NORTHING: 5565473 EASTING: 288522

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW058

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5583022 EASTING: 288983

REPORT: RGEN0100

412

 $\begin{array}{ll} \text{NAME(S):} \ \ \underline{\textbf{PILOT}}, \ \text{PILOT LODE, ROYAL,} \\ \overline{\text{JG}}, \ \overline{\text{PILOT GOLD, A ZONE}} \end{array}$ 

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082L05W

BC MAP:

LATITUDE: 50 21 41 N LONGITUDE: 119 58 01 W ELEVATION: 1030 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing beside Weyman Creek (Assessment Report 18242).

COMMODITIES: Gold Copper Silver 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Sphalerite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic Pyrrhotite Pyrite K-Feldspar Malachite Azurite Oxidation

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Stockwork Disseminated Massive CLASSIFICATION: Epigenetic Hydrothermal Igneous-contact Skarn

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Nicola Unnamed/Unknown Formation Triassic-Jurassic Klotassin Intrusions

LITHOLOGY: Quartz Diorite

Granodiorite Gabbro

Tuffaceous Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YFAR: 1989 Assay/analysis

**GRADE** COMMODITY

Silver 3.2000 0.7400 Grams per tonne Gold Grams per tonne 0.2047 Copper Per cent

COMMENTS: Best values from 1989 drilling; 1 metre intersection.

REFERENCE: Assessment Report 22482.

**CAPSULE GEOLOGY** 

The Pilot showing is located 32 kilometres west-southwest of Falkland, on Weyman Creek.

In the area, sedimentary rocks of the Permian and older Chapperon Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Triassic to Jurassic rocks of the Klotassin Intrusions cut these rocks. Volcanic rocks of the Eocene Kamloops Group cap older rocks.

Foliated quartz diorite, granodiorite and gabbro of the Klotassin Intrusions and, to a lesser extent, Nicola tuffaceous volcanic rocks host copper, gold and zinc mineralization. A quartz vein stockwork carries disseminated to massive pyrrhotite, pyrite, chalcopyrite and minor sphalerite. Veins up to 1 metre thick are reported. Similar mineralization occurs disseminated and on fractures in the diorite. The sheared and brecciated rocks have undergone chloritic and K-feldspar alteration.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

The best values from drilling in 1989 were 0.740 gram per tonne gold, 3.2 grams per tonne silver and 0.2047 per cent copper over 1.02 metres (Assessment Report 22482).

By 1932, a 5-metre shaft had been developed. Between 1984 and 1992, H. Adams explored the property through drilling.

### **BIBLIOGRAPHY**

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EMPR EXPL 1984-102
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EMPR INF CIRC 1993-1, p. 18
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EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 46-7, 48-4A, 1712A
GSC MEM 296
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
Chevron File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW059

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5584945 EASTING: 353753

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

REPORT: RGEN0100

414

NAME(S): MYSTERY NO. 1, MYSTERY NO. 2

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 23 54 N LONGITUDE: 119 03 28 W ELEVATION: 1667 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing about 3 kilometres north of the Silver Queen (082LSW010) prospect (Minister of Mines Annual Report 1902, page 188).

COMMODITIES: Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Pyrite

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

**HOST ROCK** 

Mesozoic-Cenozoic

DOMINANT HOSTROCK: Plutonic

**FORMATION** STRATIGRAPHIC AGE Triassic-Jurassic GROUP Nicola Unnamed/Unknown Formation

LITHOLOGY: Porphyry Dike

Sediment/Sedimentary

Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Quesnel

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The Mystery showing is located 20 kilometres northeast of Vernon, near the headwaters of Putnam Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group

sedimentary and volcanic rocks are faulted over metasedimentary rocks of the Proterozoic Silver Creek Formation. A porphyry dike of

Mesozoic-Cenozoic age cuts the Nicola Group.

The light grey porphyry dike carries silver, lead and gold mineralization. The dike is impregnated with galena and pyrite. mineralized dike extends north to the Prince of Wales showing The (082LSW060).

By 1902 exploration included the sinking of a 20 metre shaft.

**BIBLIOGRAPHY** 

EMPR AR \*1902-188

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

CODED BY: GSB REVISED BY: DISC DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1993/03/31 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW060

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

415

NAME(S): **PRINCE OF WALES**, BLACK PRINCE, MAID OF ERIN, ARMSTRONG, ABERDEEN

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 24 06 N LONGITUDE: 119 03 28 W NORTHING: 5585315 EASTING: 353763

ELEVATION: 1866 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing about 3 kilometres north of Silver Queen (082LSW010) prospect

(Minister of Mines Annual Report 1902, page 188).

COMMODITIES: Silver Gold Lead Molybdenum

**MINERALS** 

SIGNIFICANT: Galena Molybdenite

ASSOCIATED: Pyrite
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal TYPE: I05 Polym

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 180 x 1 Metres COMMENTS: Surface dimensions of mineralized dike. STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Unnamed/Unknown Formation Nicola Mesozoic-Cenozoic Unnamed/Unknown Informal

LITHOLOGY: Porphyry Dike

Sediment/Sedimentary

Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Quesnel
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Prince of Wales showing is located  $21\ \mathrm{kilometres}$  northeast of Vernon, near the headwaters of Putnam Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks are faulted over metasedimentary rocks of the Proterozoic Silver Creek Formation. A porphyry dike of

Mesozoic-Cenozoic age cuts the Nicola Group.

The light grey porphyry dike carries silver, lead, gold and molybdenum values. The 0.5 to 1.2 metre thick dike is impregnated with galena, pyrite and molybdenite and is exposed for up to 180 metres length on surface. The mineralized dike extends south to the Mystery showing (082LSW59). The mineralized dike extends south to the

By 1902 exploration was through tunnels and cross-cuts (at least 60 metres in length) and open cuts.

**BIBLIOGRAPHY** 

EMPR AR \*1899-747; 1900-886; \*1902-188

EMPR BULL 1940 No. 9, p. 95 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

CANMET (Mines Branch, Department of Mines) No. 592, p. 52

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW061

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5585120 EASTING: 354113

REPORT: RGEN0100

416

NAME(S): GOLD MOUNTAIN, WOODLAND BELL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 24 00 N LONGITUDE: 119 03 10 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing about 3 kilometres north of the Silver Queen (082LSW010) prospect (Minister of Mines Annual Report 1902, page 188).

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

COMMENTS: Chalcopyrite assumed. ASSOCIATED: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Nicola Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Gold Mountain showing is located 21 kilometres northeast of Vernon, near the headwaters of Putnam Creek.

In the area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks are faulted over metasedimentary rocks of the Proterozoic Silver Creek Formation.

Nicola Group argillite hosts gold and copper mineralization in a 1.5 metre thick quartz vein. Copper mineralization, probably chalcopyrite, is present. Sampling from underground exploration returned gold values of 27 grams per tonne (Minister of Mines Annual Report 1902, page 188).

The first reference to this occurrence is from the 1902 Annual Report.

**BIBLIOGRAPHY** 

EMPR AR \*1902-188

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW062

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

NORTHING: 5557776 EASTING: 312383

REPORT: RGEN0100

417

NAME(S): **SHORTS CREEK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 08 33 N LONGITUDE: 119 37 33 W ELEVATION: 1050 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit (Geological Survey of Canada, Summary Report 1931A, Plate I).

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal COMMENTS: Grade of coal is impure bituminous.

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Layered Stratiform Massive

CLASSIFICATION: Fossil Fuel Sedimentary

TYPE: A04 E SHAPE: Tabular Bituminous coal

DIMENSION: 1000 x 1 STRIKE/DIP: 100/20N Metres TREND/PLUNGE:

COMMENTS: Narrow beds, about 1.5 metres thick, can be traced on surface for 1

kilometre.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Eocene Unnamed/Unknown Formation Penticton

LITHOLOGY: Coal

Conglomerate

Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Harper Ranch

**CAPSULE GEOLOGY** 

The Shorts Creek showing is located 28 kilometres west-southwest of Vernon, on the steep north slopes of Shorts Creek.

In this area, Middle Jurassic granite intrudes Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. A major graben-like Eocene basin of Penticton Group volcanic and

sedimentary rocks extends north-south across Shorts Creek.

A 30 to 60-metre thick basal conglomeratic unit of the Penticton Group hosts an impure bituminous coal seam. The coal-bearing beds, striking 100 degrees and dipping 20 degrees north, are about 30 metres above the base of the sediments. The coal occurs as narrow beds intercalated with thin layers of shale and can be traced for about 1 kilometre on surface, averaging about 1.5 metres thick.

The first reference to this occurrence is from 1905. By 1932, a

24-metre shaft and a 12-metre tunnel had been completed.

**BIBLIOGRAPHY** 

EMPR AR 1905-193; 1911-180; \*1913-179,180; 1929-249

1930-208; \*1932-144; 1933-198

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

EMPR OF 1989-5, 1990-30

EMPR P 1982-1, pp. 12-16 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 1712A GSC MEM 296 p. 162 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 100-103

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

CODED BY: CODED BY: GSB REVISED BY: DISC

MINFILE NUMBER: 082LSW062

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW063

NATIONAL MINERAL INVENTORY:

NAME(S): BARBARA ANN (L. 4925), SONNY (L. 4926), BLUFF

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 27 17 N

LONGITUDE: 119 06 53 W ELEVATION: 660 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quarry (Open File 1988-19, page 26).

COMMODITIES: Talc

Magnesite

Magnetite

**MINERALS** 

SIGNIFICANT: Talc ASSOCIATED: Serpentinite

ALTERATION: Talc

Magnesite **Olivine** Magnesite Magnetite

Serpentine

Calcite

Tremolite

Actinolite ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Podiform CLASSIFICATION: Replacement

Massive

Industrial Min.

TYPE: M07 Ultramafic-hosted talc-magnesite

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 400 x 60

COMMENTS: Sill (length x thickness).

Faulted

Metres

STRIKE/DIP:

Disseminated

TREND/PLUNGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5591327 EASTING: 349885

PAGE:

REPORT: RGEN0100

418

**HOST ROCK** 

Unknown

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Serpentinized Peridotite Sill

Quartz Mica Schist

HOSTROCK COMMENTS: The host peridotite sill intrudes Kootenay Terrane metasedimentary

rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

PHYSIOGRAPHIC AREA: Shuswap Highland GRADE: Greenschist

COMMENTS: The age of metasomatism of the peridotite is unknown.

INVENTORY

ORE ZONE: QUARRY

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1951

SAMPLE TYPE: COMMODITY Chip

**GRADE** 6.2500

14.5000

Per cent Per cent

Magnesite Talč

Magnetite

71.0000

Per cent

COMMENTS: A 4-metre sample is from the base of the quarry. REFERENCE: Minister of Mines Annual Report 1951, page 229.

**CAPSULE GEOLOGY** 

The Barbara Ann showing is located 6 kilometres east of Armstrong, on the north side of Kendry Creek.

This area, east of the Okanagan Valley fault, is underlain by gneissic rocks of unknown age, metasedimentary rocks of the

Proterozoic-Paleozoic Kootenay Assemblage and volcanic and sedimentary rocks of the Cambro-Ordovician Tsalkom Formation and the

Upper Triassic to Lower Jurassic Nicola Group. All these units are probably in low-angle fault contact with each other. Middle Jurassic

granitic plutons intrude the above rocks. Pegmatite bodies of Mesozoic or Cenozoic age intrude the Silver Creek Formation.

A peridotite sill of unknown age intrudes quartz mica schists (Kootenay Assemblage) and hosts talc mineralization within serpentinized sections. The 60-metre thick sill is at least 400

metres in length, is offset by a fault and may be related to the

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

major low-angle faulting or to mafic volcanic rocks of the Tsalkom. The talc is found in sheared discontinuous lenses along with other alteration minerals including magnetite, magnesite, serpentinite, calcite, tremolite and actinolite. Alteration is stronger in the upper portions of the sill. A 4-metre sample from the quarry assayed 71 per cent talc, 14.5 per cent magnesite, 6.25 per cent magnetite and 2.5 per cent calcite (Minister of Mines Annual Report 1951).

The area was staked for talc in 1946. In 1950, a 39-tonne bulk sample was shipped. By 1951, a small quarry and several open cuts were completed. Local artists use the soapstone for sculpture.

### **BIBLIOGRAPHY**

EMPR AR \*1951-227,228,229,230

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

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EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM \*296, p. 157

GSC OF 637, 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW064

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

420

NAME(S): **BRETT-BIRD**, BIRD, BRETT, ARMSTRONG MICA

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 28 45 N LONGITUDE: 119 06 23 W NORTHING: 5594028 EASTING: 350553

ELEVATION: 490 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit (Minister of Mines Annual Report 1950, page 226).

COMMODITIES: Mica Uranium

**MINERALS** 

SIGNIFICANT: Muscovite Uraninite

COMMENTS: Radioactive mineral is possibly uraninite. A "few grains" present.

Orthoclase Quartz

ASSOCIATED: Oligoclase Ort MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Disseminated
CLASSIFICATION: Pegmatite Inc.
TYPE: O03 Muscovite pegmatite Industrial Min.

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Plutonic

**FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Proterozoic Unnamed/Unknown Group Silver Creek

Mesozoic-Cenozoic Unnamed/Unknown Informal

LITHOLOGY: Pegmatite

Quartz Biotite Schist

HOSTROCK COMMENTS: The pegmatite host rock intrudes the Proterozoic Silver Creek

Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional Kootenay RELATIONSHIP: Pre-mineralization GRADE: Greenschist

COMMENTS: The Silver Creek Formation is regionally metamorphosed.

CAPSULE GEOLOGY

The Brett-Bird showing is located 7 kilometres east-northeast of

Armstrong, near Sneesby Creek.

This area, east of the Okanagan Valley fault, is underlain by metamorphic rocks of unknown age, metasedimentary rocks of the Proterozoic Silver Creek Formation and volcanic and sedimentary rocks of the Cambro-Ordovician Tsalkom Formation. All these units are probably in low-angle fault contact with each other. Intruding these rocks are Middle Jurassic granitic plutons. Pegmatite bodies of Mesozoic or Cenozoic age intrude the Silver Creek. Eocene Kamloops Group volcanic rocks occur to the north.

Quartz biotite schist of the Silver Creek is intruded by irregular, sheet-like bodies of oligoclase, orthoclase, quartz and muscovite pegmatite. Fresh greenish-tinged muscovite occurs disseminated and in patches throughout the pegmatite, with the grain size of the mica varying with the grain size of the other minerals. Muscovite plates range in size from 1 millimetre to 15 by 25 centimetres in size. In a coarse-grained section of the pegmatite, patches of muscovite, 30 by 60 centimetres in size, cover up to 5 or 10 per cent of the exposure. A few grains of radioactive mineral, possibly uraninite, occur in the pegmatite.

The first record of exploration is from 1927 when an open cut exposed muscovite plates. By 1950, a 10-metre adit and the three main open cuts had been completed. Approximately 100 tonnes of mica were shipped between 1932 and 1950.

**BIBLIOGRAPHY** 

EMPR AR 1927-photo(following p. 192),\*213; 1932-144; \*1950-226,227; 1958-66

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. B15-22, 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30, 1990-32 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC FC GFOL 16(1952) p. 44: \*16(2nd Fd ) p. 200 GSC EC GEOL 16(1952) p. 44; \*16(2nd Ed.) p. 229 GSC MEM \*296, p. 157 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW065

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5593452

**EASTING: 311648** 

REPORT: RGEN0100

422

NAME(S): **JEWEL**, RUBY, OPAL, PEARL, TOPAZ, GROUSE, EUREKA, SALMON RIVER, IRON CAP, BONANZA, HOPE, BLACK JACK

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082L05E

BC MAP:

LATITUDE: 50 27 46 N LONGITUDE: 119 39 14 W ELEVATION: 770 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Main showing area (Assessment Report 20203).

COMMODITIES: Copper Silver Gold

**MINERALS** 

Copper

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pvrite Gypsum

ALTERATION: Hematite Malachite Ázurite Chlorite Clay

Silica ALTERATION TYPE: Oxidation Chloritic Argillic Silicific'n

MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Disseminated Vein Breccia

CLASSIFICATION: Porphyry

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Paleozoic-Mesozoic Harper Ranch Undefined Formation Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Siliceous Siltstone

Quartz Diorite Dike

HOSTROCK COMMENTS: The Devonian to Triassic Harper Ranch Group is intruded by rocks of

the named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core YEAR: 1989

> COMMODITY **GRADE**

0.1600 Per cent Copper

COMMENTS: Grade is from a 30-metre intersection.

REFERENCE: Assessment Report 20203.

CAPSULE GEOLOGY

The Jewel showing is located 8 kilometres southwest of Falkland,

on the south slope of the Salmon River Valley.

In this area, Upper Triassic to Lower Jurassic Nicola sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the

older units.

Harper Ranch Group siltstones and quartz diorite dikes host alkaline porphyry-type copper, gold and silver mineralization. The 1 to 3-metre thick dikes are brecciated in places. The dikes and sediments have been chloritized, weakly clay altered and locally silicified. Gypsum veining and pyrite is also present. Within portions of this alteration zone copper occurs as supergene native copper, malachite, azurite, and as chalcopyrite, in disseminations

MINFILE NUMBER: 082LSW065

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

and on fractures, with or without quartz. A 30-metre section of drill core assayed 0.16 per cent copper with erratic gold values up to 1 gram per tonne (Assessment Report 20203). A series of hematitic structures cuts the supergene zone and host enrichments in copper, gold and silver. Below the supergene zone, hypogene fracture-controlled chalcopyrite mineralization assayed up to 0.5 per cent copper over 7.5 metres.

From 1957 to 1971, the Marzoffs explored the area with trenches

From 1957 to 1971, the Marzoffs explored the area with trenches and in 1974 carried out some drilling. In 1967, Canex Aerial Exploration Ltd. carried out geological mapping, soil geochemistry, magnetic, VLF-EM and induced polarization surveys, and drilling. Utah Mines Ltd. conducted geological mapping in 1986. In 1988-90, Corona Corporation carried out geological mapping, soil geochemistry, trenching, VLF-EM and magnetic surveys, and drilling.

### **BIBLIOGRAPHY**

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW066

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5590008 EASTING: 338083

REPORT: RGEN0100

424

NAME(S): MOUNT ROSE (L. 2683), IVAN, MOUNT ROSE SILICA, MINERAL LEASE 21, RADEX

STATUS: Past Producer Open Pit MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W

BC MAP:

LATITUDE: LONGITUDE: 119 16 49 W ELEVATION: 800 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry (Open File 1987-15).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz Pvrite Galena Chalcopyrite Pyrrhotite ASSOCIATED: Pyrite Chalcopyrite Galena Pyrrhotite

COMMENTS: Sparsely disseminated.

ALTERATION: Limonite ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Massive Hydrothermal

CLASSIFICATION: Epigenetic TYPE: I07 Sil SHAPE: Tabular

Silica veins

Fractured

MODIFIER: Faulted DIMENSION: 75 x x 30 x 12 Metres

COMMENTS: Massive vein.

Industrial Min.

105

STRIKE/DIP: 070/55N

TREND/PLUNGE:

Unnamed/Unknown Informal

Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** Cambrian-Ordovician Unnamed/Unknown Group Sicamous

Cretaceous

LITHOLOGY: Quartz Diorite

Phyllite

HOSTROCK COMMENTS: Salmon Arm Intrusions.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: The Sicamous is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Grab

YEAR: 1969

COMMODITY

**GRADE** Silica 99.5600 Per cent

COMMENTS: Sample is of randomly picked chips from loose muck in the quarry.

REFERENCE: Minister of Mines Annual Report 1969, page 407.

CAPSULE GEOLOGY

The Mount Rose showing is located 6 kilometres west of

Armstrong, southwest of the summit of Mount Rose.

In this area, sedimentary and volcanic rocks of the Upper
Triassic to Lower Jurassic Nicola Group are in fault contact to the
north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formations) rocks. To the south, the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granitic plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group

volcanic rocks are present.

Cretaceous quartz diorite hosts a large quartz vein (the Ivan vein) which has been mined for industrial use. The quartz is massive, milky white and is cut off by a fault to the northeast. The vein is about 12 metres thick, is exposed for 75 metres along strike

MINFILE NUMBER: 082LSW066

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

and averages 30 metres in plan width. Minor impurities including sparse disseminations of galena, chalcopyrite, pyrite, pyrrhotite and limonite occur near the hangingwall and the fault. Limonitic fractures are also present near the fault. Fractures 3 to 15 centimetres apart are common. The analysis of a random sample of loose muck from the quarry returned 99.56 per cent silica (Minister of Mines Annual Report 1969, page 407).

Between 1968-75, the Mount Rose Mining Co. produced about 5034

tonnes for stucco dash, exposed aggregate and metallurgical use.

### **BIBLIOGRAPHY**

EMPR AR \*1968-331 EMPR ASS RPT 17569, 18846 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR GEM \*1969-406,407; 1973-564,565 EMPR MAP 7216G, 8513G EMPR MINING Vol. \*1, p. 49
EMPR OF \*1987-15, pp. 27-28; 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966; Inspection Report, Aug-Sept, 1975) EMPR RGS 1976 GSC MEM 296 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW067

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5597146 EASTING: 323712

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

426

NAME(S): **AB 9** 

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L06W BC MAP:

LATITUDE: 50 29 59 N LONGITUDE: 119 29 09 W ELEVATION: 1100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trench (Assessment Report 4830).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Disseminated Stratabound

CLASSIFICATION: Unknown

TYPE: G04 SHAPE: Tabular Besshi massive sulphide Cu-Zn

MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician **FORMATION GROUP** 

Unnamed/Unknown Group Sicamous

LITHOLOGY: Quartz Biotite Schist

Schist

Chloritic Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1973 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip COMMODITY

Copper Per cent

COMMENTS: Grade is from a 15-metre chip sample.

REFERENCE: Assessment Report 4830.

**CAPSULE GEOLOGY** 

The AB 9 showing is located 5 kilometres east of Falkland, north

of Warren Creek.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceo granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Cretaceous Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group

volcanic rocks are present in the area.

The Sicamous Formation (possibly the Eagle Bay Formation or the Nicola Group) metasedimentary or metavolcanic rocks host copper mineralization. A sequence of chloritic argillites includes about 30 per cent interbedded quartz biotite schist which may represent original arenaceous beds. These sheared schist layers host disseminated chalcopyrite and pyrite over a 55 metre thickness. best sample results are 15 metres of 0.21 per cent copper, including(?) 3 metres of 0.74 per cent copper (Assessment Report

In 1973, El Paso Mining and Milling Co. carried out a program of geological mapping, soil geochemistry and trenching.

MINFILE NUMBER: 082LSW067

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4830
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EMPR RGS 1976
GSC MEM 296
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GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW068

NATIONAL MINERAL INVENTORY:

NAME(S): **OKANAGAN SUNSET** 

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L03W

LATITUDE: 50 12 12 N

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

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REPORT: RGEN0100

428

NORTHING: 5564000 EASTING: 328576

LONGITUDE: 119 24 08 W ELEVATION: 610 Metres LOCATION ACCURACY: Within 500M

BC MAP:

COMMENTS: Quarry (Fieldwork 1986, page 320).

COMMODITIES: Granite

Dimension Stone **Building Stone** 

Open Pit

Aggregate

**MINERALS** 

SIGNIFICANT: Orthoclase ASSOCIATED: Plagioclase

MINERALIZATION AGE: Eocene

Quartz **Biotite** 

Hornblende

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Magmatic

Industrial Min.

TYPE: R03 Dimension stone - granite DIMENSION: 80 x 25 x 20 Metres

STRIKE/DIP: R15 Crushed rock

TREND/PLUNGE:

COMMENTS: Ridge of granite containing potential reserves.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Focene

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Coryell Intrusions

LITHOLOGY: Orthoclase Porphyritic Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

### CAPSULE GEOLOGY

The Okanagan Sunset deposit is located 11 kilometres southwest of Vernon, near the east shore of Okanagan Lake.

Harper Ranch

In this area, Devonian to Triassic sediments of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. These are intruded by Eocene granites and hypabyssal equivalents of the Coryell Intrusions. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

The Eocene Coryell granite has been quarried for industrial use. It has an attractive fresh pale pink tone, is medium to coarse-grained and contains pink orthoclase feldspar crystals up to 8 millimetres in length. Weathered surfaces are light to dark grey with occasional yellow iron staining. Potential reserves exist in a well-defined ridge of granite, northeast of the abandoned face. Thi ridge is 80 metres long, 25 metres wide with a face up to 20 metres high. Spacing between joints and fractures is irregular although 48 This

per cent are spaced greater than 50 centimetres apart.

In 1969, Columbia Marble Company opened the quarry and operated for some time afterwards. Stone was shipped to the company's processing plant in Burnaby where it was cut into slabs to be used as facing stone. The stone has also been crushed and used as aggregate for decorative slabs. Similar stone, from the Vernon Granite quarry (082LSW087), was used in the Vernon courthouse.

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EMPR INF CIRC \*1988-6, p. 10; 1994-15 EMPR INSP RPT Sept. 1971 EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30 1975 EMPR PF (In 082LSW General - Claim Map, 1966; Inspection Report, Sept. 1975) EMPR RGS 1976 GSC MAP 46-7, 48-4A, 1712A GSC MEM 296

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW069

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

430

NAME(S): **BOUL**, BOUL 1, BOUL 5, BOULEAU

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L05E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 15 21 N LONGITUDE: 119 37 40 W NORTHING: 5570380 EASTING: 312688

ELEVATION: 1700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of a zone of gold-bearing quartz veins (Assessment Report

21877).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Gold

COMMENTS: Electrum is likely present.
ASSOCIATED: Quartz Chalcedony MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Stockwork

CLASSIFICATION: Epithermal

DIMENSION: 1000 x 600 Metres STRIKE/COMMENTS: Surface dimensions of the area containing gold-bearing quartz STRIKE/DIP: TREND/PLUNGE:

veinlets.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1991 Assay/analysis

COMMODITY **GRADE** 

180,0000 Grams per tonne Silver Cold 27.0000 Grams per tonne

COMMENTS: Highest values, averages are much lower.

REFERENCE: Assesment Report 21877.

CAPSULE GEOLOGY

The Boul showing is located 26 kilometres west of Vernon,

between Whiteman and Bouleau Creeks.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eccene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks. Eccene Coryell rhyodacite porphyry to syenite

plugs and dikes intrude these rocks.

Quartz veins within foliated Middle Jurassic granodiorite host gold and silver mineralization. Numerous quartz vein and veinlets, sometimes forming stockworks, carry native gold and/or electrum, and occur over a 1000 by 600 metre area. The precious metal veins have a very fine grained saccharoidal texture with local colloform chalcedonic banding. The veins are narrow (up to 0.4 metre thick) and discontinuous (up to 15 metres long). Assay values up to 27 grams per tonne gold and 180 grams per tonne silver are reported, although average values are much lower (Assessment Report 21877).

In 1988-90, Chevron Mineral Ltd. carried out a soil geochemistry program and in 1991 Inco Exploration and Technical Services Inc.

conducted geological mapping and rock sampling.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167

GSC P 89-1E pp. 51-60

PR REL Solomon Resources Ltd., Feb.14, 18, 2003

WWW http://www.bmts.bc.ca/srb/
Chevron File

Chevron File

CODED BY: DISC REVISED BY: DISC FIELD CHECK: Y FIELD CHECK: N DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW070

NATIONAL MINERAL INVENTORY:

NAME(S): WESTWOLD CLAY

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L05W BC MAP:

Open Pit

MINING DIVISION: Kamloops

NORTHING: 5593221 EASTING: 301928

UTM ZONE: 11 (NAD 83)

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432

LATITUDE: 50 27 27 N
LONGITUDE: 119 47 26 W
ELEVATION: 640 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Showing (Bulletin 30, Figure 1).

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary SHAPE: Tabular

Stratiform Industrial Min. Layered

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary

**Undefined Group** 

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Glaciolacustrine Calcareous Clay

Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Overlap Assemblage

Harper Ranch

PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The Westwold Clay deposit is located 16 kilometres west of Falk-

land, in the Salmon River Valley.

In this area, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Middle Jurassic granitic rocks of the informally named Terrace Creek batholith intrude these rocks. Extensive Eocene

Kamloops Group volcanic rocks cap the older rocks.

Quaternary glaciolacustrine beds host a clay deposit quarried for industrial use. A grey, calcareous clay suitable for good quality brick and tile was mined by the Falkland Brick, Tile and Pottery Ltd. in the late 1940s.

**BIBLIOGRAPHY** 

EMPR AR 1947-A207

EMPR BULL \*30, pp. 12, 50 EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 5214G, 7216G EMPR OF 1989-5, 1990-30

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CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW071

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5563363

EASTING: 304064

TREND/PLUNGE:

REPORT: RGEN0100

433

NAME(S): ASH 1, ASH, HUDSON BAY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E

BC MAP: LATITUDE: 50 11 24 N

LONGITUDE: 119 44 42 W ELEVATION: 1630 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the mineralized area (Assessment Report 9487).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite ALTERATION: K-Feldspar Kaolin

ALTERATION TYPE: Potassic Argillic

MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork vein CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

STRIKE/DIP: DIMENSION: 600 x 300 Metres

COMMENTS: Dimension is of an area of quartz (± molybdenite) veins and/or

fracture mineralization.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

Middle Jurassic

LITHOLOGY: K-Feldspar Porphyry Granite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

**CAPSULE GEOLOGY** 

The Ash 1 showing is located 35 kilometres west of Vernon,

west-southwest of Hudson Bay Lake.

In this area, Middle Jurassic porphyritic granite of the informally named Terrace Creek batholith intrudes Devonian to Triassic sediments of the Harper Ranch Group. Much of the surrounding area is underlain by Eocene volcanic, tuffaceous and sedimentary rocks of the Penticton Group and by Miocene Chilcotin

Group olivine basalts.

The K-feldspar porphyritic granite hosts molybdenite mineralization. The mineralization, of possible Jurassic age, occurs in narrow, widely spaced quartz veins and on some joint planes. Small molybdenite rosettes occur in the quartz veins and fracture planes can be weakly mineralized with pyrite clusters and molybdenite blebs. K-feldspar and kaolin alteration occurs along the quartz The low grade mineralization occurs over a 600 veins and fractures.

by 300 metre area.
In 1980, Brenda Mines Ltd. carried out geological mapping and soil geochemistry.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9487

EMPR EXPL 1980-131,132

EMPR FIELDWORK 1987, pp. ! EMPR MAP 37, 5207G, 7216G 55-58; 1988, pp. 355-363

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GSC MEM 296

GSC OF 637, 736, 2167

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW072

NATIONAL MINERAL INVENTORY:

NAME(S): STUART, WINFIELD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

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REPORT: RGEN0100

435

LATITUDE: 50 04 04 N LONGITUDE: 119 21 01 W ELEVATION: 1000 Metres

NORTHING: 5548812 EASTING: 331808

LOCATION ACCURACY: Within 500M

COMMENTS: Old workings (Assessment Report 7700).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Garnet

Magnetite

MINERALIZATION AGE: Miocene

**DEPOSIT** 

CHARACTER: Stratabound Unconsolidated Disseminated

CLASSIFICATION: Placer

SHAPE: Tabular DIMENSION: 5000 x 1500 x 60 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

082LSW019, 093 and 142.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Miocene Chilcotin Undefined Formation

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Plutonic Rocks

**CAPSULE GEOLOGY** 

The Stuart showing is located 23 kilometres south-southwest of Vernon, between Wood Lake and Clark Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. Middle Jurassic granitic plutons of the informally named Terrace Creek batholith intrude the older rocks. Eocene Penticton Group and Miocene volcanic and sedimentary rocks cap areas of older rock.

The basal, partly cemented, well rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits unconformably overlie Middle Jurassic monzonite and granodiorite and/or volcanic rocks of the Penticton Group. The Miocene sediments are commonly overlain by Miocene basalt flows. Significant gold is pure (850 fine), of a reddish colour, and is found as flattened pellets up to 2 millimetres in size, with some very fine gold reported. Garnet and a little magnetite occur with the gold.

By 1936, an exploration drift of 30 metres had been completed. Between 1933 and 1945, a total of 2330 grams of placer gold production (refer to 082LSW093) was reported from the Winfield camp (includes 082LSW019, 093 and 142). In 1977-79, Union Oil Company explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical, radiometric, airborne magnetometer and drill programs were conducted.

**BIBLIOGRAPHY** 

EMPR AR \*1933-A197,198; \*1934-D34; \*1936-D46,47,48

EMPR ASS RPT 6631, 6944, \*7700

EMPR BULL 28, p. 62, 63 EMPR EXPL 1977-E77; 1978-E90; 1979-98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM \*296, p. 137

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1993/03/31 DATE REVISED: 1993/09/17 CODED BY: DISC REVISED BY: DISC FIELD CHECK: Y FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW073

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5571993 EASTING: 313419

REPORT: RGEN0100

437

NAME(S): WEDGE, MOBY, BOULEAU

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 16 14 N LONGITUDE: 119 37 06 W ELEVATION: 1230 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Area of showings (Assessment Report 21877).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Electrum is likely present. ASSOCIATED: Quartz Ćhalcedony MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epithermal TYPE: I01 Au

Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1991

SAMPLE TYPE: Grab GRADE

COMMODITY Gold Grams per tonne

COMMENTS: Highest value.

REFERENCE: Assessment Report 21877.

CAPSULE GEOLOGY

The Wedge showing is located 25 kilometres west of Vernon, on

the steep south slope of Bouleau Creek Valley.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell quartz latite porphyry to syenite plugs and dikes intrude these rocks.

Quartz veins within foliated Middle Jurassic granodiorite host gold and silver mineralization. Numerous quartz veins and veinlets, sometimes forming stockworks, carry native gold and/or electrum. precious metal veins have a very fine grained saccharoidal texture with local colloform chalcedonic banding. They are narrow and discontinuous. Assays up to 3.5 grams per tonne gold are reported (Assessment Report 21877).

In 1988-90, Chevron Mineral Ltd. carried out a soil geochemistry program and in 1991 Inco Exploration and Technical Services Inc. conducted geological mapping.

**BIBLIOGRAPHY** 

EMPR ASS RPT 18541, 19089, \*21877

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5214G, 7216G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 PR REL Solomon Resources Ltd., Feb.14, 18, 2003 WWW http://www.bmts.bc.ca/srb/

DATE CODED: 1993/03/31 DATE REVISED: 1993/07/07 CODED BY: DISC REVISED BY: DISC FIELD CHECK: Y FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW074

NATIONAL MINERAL INVENTORY:

NAME(S): **SWEETSBRIDGE** 

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L06W

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 27 10 N

NORTHING: 5591911 EASTING: 324030

PAGE:

REPORT: RGEN0100

439

LONGITUDE: 119 28 44 W ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location is 300 metres north of the old Sweetsbridge railway station

(Open File 1991-15, page 36).

COMMODITIES: Gypsum

MINERALS
SIGNIFICANT: Gypsum

MINERALIZATION AGE: Triassic-Jurassic

**DEPOSIT** 

CHARACTER: Concordant

CLASSIFICATION: Exhalative Industrial Min.

SHAPE: Tabular DIMENSION: 180 x 12 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Gypsum deposit (length x thickness).

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Unnamed/Unknown Formation Nicola

LITHOLOGY: Gypsum

Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

GRADE: Greenschist

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Sweetsbridge showing is located 8 kilometres southeast of

Falkland, on the north slope of the Salmon River valley.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

Sedimentary rocks of the Nicola Group host a gypsum deposit.

White, brown and grey gypsum is exposed over a length of 180 metres, with a 12 metre thickness. It is similar to the Falkland deposit (082LNW001), 8 kilometres along strike to the northwest. The deposit

may be a gypsum-rich facies of a Kuroko-type deposit.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30, \*1991-15, p. 36

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW075

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5593381 EASTING: 316284

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

440

NAME(S): TUKTAKAMIN, FALKLAND, TUK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 27 49 N LONGITUDE: 119 35 19 W ELEVATION: 1650 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Showing (Assessment Report 8439).

COMMODITIES: Volcanic Glass

**MINERALS** 

SIGNIFICANT: Volcanic Glass COMMENTS: Alteration mineral is palagonite.

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Breccia

CLASSIFICATION: Volcanogenic Indus TYPE: R12 Volcanic glass - perlite Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene

**FORMATION** GROUP Kamloops

Undefined Formation

LITHOLOGY: Basaltic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Zeolite

CAPSULE GEOLOGY

The Tuktakamin showing is located 5 kilometres south-southwest

of Falkland, on the summit of Tuktakamin Mountain.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group volcanic rocks host volcanic glass. A breccia, about 100 metres thick, caps the top of the mountain. The breccia consists of fragments of black basaltic glass, from 1 centimetre to several metres across, surrounded by orange to light-brown

palagonite. Prospecting was carried out in 1980.

**BIBLIOGRAPHY** 

EMPR ASS RPT 8439

89-92; 1987, pp. 55-58; 1988, pp. 355-363

EMPR FIELDWORK 1982, pp. 8 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296-157

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

CODED BY: GSB REVISED BY: DISC DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1993/03/31 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW076

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

REPORT: RGEN0100

441

NAME(S): **MOFFAT CREEK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 27 04 N LONGITUDE: 119 22 31 W ELEVATION: 500 Metres NORTHING: 5591485 EASTING: 331378

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, page 74).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Quaternary **Undefined Group** Undefined Formation

LITHOLOGY: Unconsolidated Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Quesnel

CAPSULE GEOLOGY

The Moffat Creek showing is located 22 kilometres northnorthwest of Vernon, on Moffat Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. The Nicola Group is intruded by Cretaceous granitic rocks of the Salmon Arm Intrusions. Eocene Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks.

Quaternary sediments host placer gold mineralization. sorted unconsolidated sediments contain some nuggets and fine, wellworn gold.

By 1932, some hydraulic placer mining had occurred.

**BIBLIOGRAPHY** 

EMPR AR \*1932-144,145 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296, pp. 136, 137 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 73, 74

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW077

NATIONAL MINERAL INVENTORY:

NAME(S): **LUMSDEN** 

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L06E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

442

LATITUDE: 50 26 33 N LONGITUDE: 119 14 15 W ELEVATION: 420 Metres NORTHING: 5590224 EASTING: 341129

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada, Open File 637, Map C). COMMODITIES: Granite

Dimension Stone

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Unknown COMMENTS: Commodity is granodiorite. ASSOCIATED: Pyrite

MINERALIZATION AGE: Cretaceous

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Magmatic TYPE: R03 D

Industrial Min. Dimension stone - granite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

PHYSIOGRAPHIC AREA: Thompson Plateau

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Salmon Arm Intrusions intrude Nicola Group rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Plutonic Rocks

Quesnel

CAPSULE GEOLOGY

The Lumsden showing is located 3 kilometres west of Armstrong, at the base of Mount Rose.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceou Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

Cretaceous granodiorite has been quarried for industrial use. The granodiorite contains amber-coloured mica, has good rift and grain, and works with ease. However, the pyrite content makes it a poor building material.

About 1910 the stone was quarried for monument bases and building stone.

**BIBLIOGRAPHY** 

EMPR AR 1947-212

pp. 55-58; 1988, pp. 355-363 EMPR FIELDWORK 1987,

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 47-6, 1712A GSC MEM 296, p. 161

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60 GSC SUM RPT 1931A, Figure 7, p. 99 CANMET RPT (Bureau of Mines) \*452, p. 70; \*846, p. 173

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N

MINFILE NUMBER: 082LSW077

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW078

NATIONAL MINERAL INVENTORY:

NAME(S): WHITEROCK

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L06E BC MAP:

PAGE:

REPORT: RGEN0100

443

LATITUDE: 50 25 15 N

NORTHING: 5587457 EASTING: 353428

LONGITUDE: 119 03 48 W ELEVATION: 1690 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Whiterock claim.

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz
MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Massive Vein
CLASSIFICATION: Epigenetic Hydrothe
TYPE: O04 Feldspar-quartz pegmatite

Hydrothermal Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic-Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Whiterock showing is located 10 kilometres east-southeast of

Armstrong, near the headwaters of Fortune Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks are faulted over metasedimentary rocks of the Proterozoic Silver Creek Formation.

A small plug-shaped quartz body intrudes argillaceous Nicola

Group sediments.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1978-15, p. 45; 1989-5; 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976

GSC MEM 296 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW079

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

444

NAME(S): LITTLE DUNCAN AND PANORAMA, LITTLE DUNCAN (L. 904), PANORAMA (L. 905), NEWPORT, PAYROLL

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 20 25 N LONGITUDE: 119 22 14 W NORTHING: 5579153 EASTING: 331320

ELEVATION: 930 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Old workings (Assessment Report 20448).

COMMODITIES: Gold 7inc Silver Lead Copper

SIGNIFICANT: Galena Sphalerite Gold Chalcopyrite

ASSOCIATED: Quartz Pyrite Marcasite

ALTERATION: Sulphur MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Mesothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: The Nicola is regionally metamophosed to lower greenschist facies.

CAPSULE GEOLOGY

The Little Duncan and Panorama showing is located 11 kilometres

northwest of Vernon, north of Newport (Deep) Creek.
In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Middle Jurassic granitic rocks intrude the Nicola and Harper Ranch groups. Outliers of Eocene Kamloops Group

volcanic rocks are present in the area.

Quartz veins in Nicola Group argillaceous rocks host gold, silver, lead, zinc and copper mineralization. One vein carries disseminated galena, sphalerite, marcasite, pyrite, native sulphur and native gold. Galena carries about 34 grams of silver for each per cent lead (Geological Survey of Canada Summary Report 1931A). Representative sampling reported about 3 to 4 grams (\$2-\$3) per tonne gold (Geological Survey of Canada Summary Report 1931A).

A second vein, by Newport Creek, is well mineralized with

galena, sphalerite and minor pyrite and chalcopyrite. By 1899, exploration work included a 10-metre shaft and 15-metre adit on the Little Duncan claim, and a 4-metre adit on the Panorama. The claims were Crown-granted in 1901.

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EMPR AR 1899-746,747; 1901-1230; 1929-248

EMPR ASS RPT 12313, \*20448 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT \*1931A, pp. 77, 85-86

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW080

NATIONAL MINERAL INVENTORY:

NAME(S): SIWASH CREEK, NASWHITO CREEK

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

Open Pit

MINING DIVISION: Vernon

NORTHING: 5573911 EASTING: 325172

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

446

LATITUDE: 50 17 29 N LONGITUDE: 119 27 16 W ELEVATION: 480 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Area of hydraulic mining (Geological Survey of Canada Summary Report

1931A, Plate I).

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary

GROUP Undefined Group

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage Harper Ranch PHYSIOGRAPHIC AREA: Thompson Plateau

#### CAPSULE GEOLOGY

The Naswhito Creek showing is located 13 kilometres westnorthwest of Vernon, on Naswhito Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eocene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks.

Quaternary gravels host placer gold mineralization. of a 60-metre thick sequence of gravels, sand and clay, 1 metre or so of rusty-weathering gravel hosts the best values, with the highest concentration occurring on bedrock. The fineness of the gold is

concentration occurring on bedrock. The fineness of the gold is reported to average about 840. The gravels extend to the north past Equesis Creek and cover an area of about 6 square kilometres.

Placer gold exploration and mining (through tunnels) was first reported in 1889. From 1889-95 approximately 15 kilograms of placer gold production was reported (Bulletin 28). From 1915-18, hydraulic mining reported produced 19 kilograms of placer gold (Bulletin 28).

Minor reported production during 1924-35 was about 1 kilograms. Minor reported production during 1924-35 was about 1 kilogram.

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EMPR AR 1889-292; 1890-379; 1891-576; 1892-543; 1893-1073; 1894-753; 1895-706; \*1915-21,252,253; 1916-20,263; 1917-20; 1918-21; \*1924-140; 1926-200; 1930-208; 1931-116; 1934-D34; 1935-D15 EMPR BULL 1933 No. 1, p. 41; \*28, pp. 62-63 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296, pp. 136-137 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 73-74, 113

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

CODED BY: GSB REVISED BY: DISC

MINFILE NUMBER: 082LSW080

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW081

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

447

NAME(S): **EQUESIS CREEK**, SIX-MILE CREEK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L06W BC MAP:

LATITUDE: 50 20 25 N LONGITUDE: 119 27 35 W ELEVATION: 550 Metres NORTHING: 5579359 EASTING: 324976

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A, page 74).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Quaternary Undefined Group Undefined Formation

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Quesnel

CAPSULE GEOLOGY

The Equesis Creek showing is located 16 kilometres northwest of Vernon, on Equesis Creek near Musgrave Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eccene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks.

Quaternary gravels along the creek host placer gold mineralization. Good values are reported along sections of Equesis  $\left(\frac{1}{2}\right)^{2}$ Creek, particularly in the vicinity of its junction with Musgrave Creek.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296, pp. 136-137 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 73-74

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW082

NATIONAL MINERAL INVENTORY:

NAME(S): BALD

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L04E BC MAP: LATITUDE: 50 03 52 N

NORTHING: 5548859 EASTING: 319015

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

448

LONGITUDE: 119 31 44 W ELEVATION: 960 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Pit (Assessment Report 7973).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Recent

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary\_

TYPE: B07 Bog Fe, Mn, U, Cu, Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** Recent

Undefined Formation **Undefined Group** 

LITHOLOGY: Sediment/Sedimentary

HOSTROCK COMMENTS: Host rock is organic-rich bog.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1979 CATEGORY: Assay/analysis

SAMPLE TYPE: Channel **GRADE** COMMODITY 0.0350 Per cent Uranium

COMMENTS: Results are from a 1.4 metre sample of organic material.

REFERENCE: Assessment Report 7973.

CAPSULE GEOLOGY

The Bald showing is located 20 kilometres north of Kelowna;

about 2 kilometres west of Okanagan Lake.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks have been intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Outliers of Eocene Penticton Group volcanic and sedimentary rocks overlie the older units.

A Recent organic bog, overlying Middle Jurassic quartz monzonite, hosts uranium mineralization. A 1.4 metre sample of homogeneous black organic muck with cedar wood fibre and roots assayed 0.035 per cent uranium, with 0.3 metre of 0.125 per cent uranium (Assessment Report 7973).

In 1978-79, Canadian Occidental Petroleum Ltd. carried out geological mapping, soil geochemistry, a radiometric survey and trenching.

**BIBLIOGRAPHY** 

EMPR ASS RPT 7332, \*7973

EMPR EXPL 1978-91; 1979-99

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

EMPR OF 1989-5, 1990-30, 1990-32 p. 20

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60

DATE CODED: 1987/03/26 CODED BY: LDJ DATE REVISED: 1993/03/31 REVISED BY: DISC

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW083

NATIONAL MINERAL INVENTORY:

F07

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5569363 EASTING: 338976

REPORT: RGEN0100

450

NAME(S): EBRING, VERNON, POTTERY ROAD

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L06W

BC MAP: LATITUDE: 50 15 16 N LONGITUDE: 119 15 32 W ELEVATION: 400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary TYPE: B06 Fireclay Lavered Industrial Min.

Sedimentary kaolin SHAPE: Tabular DIMENSION: 1 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Clay deposit is 1 metre thick.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Undefined Formation

LITHOLOGY: Glaciolacustrine Silty Calcareous Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Undivided Metamorphic Assembl.

**CAPSULE GEOLOGY** 

The Ebring showing is located 1 kilometre southeast of the

centre of Vernon.

In this area, east of the Okanagan Valley fault, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These rocks are faulted over metamorphic rocks. Outliers of Eocene Penticton Group volcanic rocks are present. Much of the valley floor is covered by thick Quaternary sediments.

Quaternary glaciolacustrine beds host a 1 metre thick clay deposit quarried for industrial use. Light grey, calcareous silty clay, somewhat suitable for common brick and tile manufacture, was mined pre-1930.

**BIBLIOGRAPHY** 

EMPR AR 1947-A207 EMPR BULL \*30, pp. 12, 51 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW022 - Jones, W.C.(1959): Groundwater in the BX

Creek Area; In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296, pp. 158-159 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 99-100

DATE CODED: 1985/07/24 FIELD CHECK: N CODED BY: GSB DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW084

NATIONAL MINERAL INVENTORY:

NAME(S): BRETT EAST, BRETT 1

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L04E

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5567672 EASTING: 310570

PAGE:

REPORT: RGEN0100

451

LATITUDE: 50 13 51 N LONGITUDE: 119 39 22 W ELEVATION: 1220 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 19482).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz Pyrite ALTERATION: Silica Pyrite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Eocene

Pyrite

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Epithermal Stratabound

TYPE: 101 Au-quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE Eocene Penticton **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Trachyandesite Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage PHYSIOGRAPHIC AREA: Thompson Plateau Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Zeolite

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: YEAR: 1989 Assay/analysis SAMPLE TYPE: Drill Core

COMMODITY

**GRADE** 1.8000

Grams per tonne

COMMENTS: Highest value from drilling, across 6 metres. REFERENCE: Property File - Huntington Resources Inc., 1989.

**CAPSULE GEOLOGY** 

The Brett East showing is located 28 kilometres west of Vernon, on the steep north slope of Whiteman Creek Valley. The Brett Main  $\,$ 

prospect (082LSW110) occurs about 600 metres to the west.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith.

Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude the Middle Jurassic and Penticton rocks. At the East Zone, a quartz vein stockwork in Penticton Group trachyandesite flows hosts gold mineralization. The shallow dipping

stockwork is associated with a bleached, silicified, and pyritized zone. Samples from drilling assayed up to 1.8 grams per tonne gold over 6 metres (Property File - Huntington Resources Inc., Statement of Material Facts, July 21, 1989).

In 1984-86, Huntington Resources Ltd. carried out geological mapping and soil geochemistry. During 1987-89, Corona Corporation carried out additional exploration including drilling.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13469, \*13471, \*15564, \*19482

EMPR EXPL 1984-100,101; 1985-A39,62; 1986-A28,64; 1987-A29,67,71,

B15-22,C88; 1988-A2,21,43 EMPR FIELDWORK 1987, pp. B15-22, 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

MINFILE NUMBER: 082LSW084

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966; In 082LSW110 -Huntington Resources Inc., Statement of Material Facts, July 21,

1989)

HARP RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Placer Dome File

CODED BY: DISC REVISED BY: DISC DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW085

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

NORTHING: 5566133 EASTING: 319263

REPORT: RGEN0100

453

NAME(S): BOULEAU CREEK, BOLEAN CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 13 11 N LONGITUDE: 119 32 01 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence (Geological Survey of Canada, Open File 637, Map C).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** Quaternary **Undefined Group** Undefined Formation

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Plutonic Rocks

CAPSULE GEOLOGY

**BIBLIOGRAPHY** 

The Bouleau Creek showing is located 19 kilometres west-

southwest of Vernon, on Bouleau Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally name Terrace Creek batholith. Eocene Coryell granitic rocks intrude and are in fault contact with the Middle Jurassic intrusions. Eccene Penticton Group volcanic rocks overlie the

igneous and sedimentary rocks.

Quaternary gravels along the creek host placer gold mineralization. In 1915, hydraulic placer mining leases were granted.

EMPR AR \*1915-253

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296, pp. 136-137 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 74 WWW http://www.infomine.com/

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW086

NATIONAL MINERAL INVENTORY:

NAME(S): WHITEMAN CREEK, WHITE MAN'S CREEK, TWELVE-MILE CREEK

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 13 00 N LONGITUDE: 119 31 32 W ELEVATION: 580 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence (Geological Survey of Canada, Open File 637, Map C).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary Undefined Group **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5565774 EASTING: 319826

REPORT: RGEN0100

454

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Plutonic Rocks

CAPSULE GEOLOGY

The Whiteman Creek showing is located 19 kilometres west-

southwest of Vernon, on Whiteman Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eccene Coryell granitic rocks intrude and are in fault contact with the Middle Jurassic intrusions. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Quaternary gravels along the creek host placer gold mineralization. In 1915, hydraulic placer mining leases were The recorded production is 90 grams of placer gold, during

granted. The recorded 1936-40 (Bulletin 28).

**BIBLIOGRAPHY** 

EMPR AR \*1915-253; 1920-187; 1921-196 EMPR BULL \*28, pp. 62-63 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296, pp. 136-137 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT 1931A, pp. 73-74

CODED BY: GSB REVISED BY: DISC DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

MINFILE NUMBER: 082LSW086

FIELD CHECK: N

FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW087

NATIONAL MINERAL INVENTORY:

NAME(S): VERNON GRANITE, VERNON QUARRY

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L03W

Open Pit

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 10 16 N UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

455

LONGITUDE: 119 26 47 W ELEVATION: 350 Metres

LOCATION ACCURACY: Within 500M

NORTHING: 5560521 EASTING: 325307

COMMENTS: Quarry (Paper 87-1, page 321).

Dimension Stone

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Orthoclase ASSOCIATED: Plagioclase

COMMODITIES: Granite

MINERALIZATION AGE: Eocene

Quartz **Biotite**  Hornblende

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Magmatic

Industrial Min.

TYPE: R03 Dimension stone - granite
DIMENSION: 50 x 10 Metres

STRIKE/DIP:

TREND/PLUNGE:

**HOST ROCK** 

Focene

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP

COMMENTS: Quarry dimensions.

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Coryell Intrusions

LITHOLOGY: Orthoclase Porphyritic Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks

Harper Ranch

PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The Vernon Granite deposit is located 16 kilometres southwest of Vernon, on the east shore of Okanagan Lake.

In this area, Devonian to Triassic sediments of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. These are intruded by granites and hypabyssal equivalents of the Eocene Coryell Intrusions. Patches of Penticton Group volcanic rocks overlie the older rocks.

The granite has been quarried for industrial use. It is

coarse-grained with a fresh light pink tone, containing pink orthoclase feldspar crystals up to 10 millimetres in length. plagioclase, biotite and hornblende are also present. Quartz Quartz, stringers cut the granite and isolated red iron stain patches occur on weathered surfaces.

The quarry is approximately 50 metres long with a face up to 10 metres high. Potential reserves exist to the east. Spacing between joints and fractures is irregular, varying from 0.2 to 2.5 metres, with 60 per cent of recoverable blocks being greater than 50 centimeters square. The stone splits well in all three directions, is practically devoid of brother tables. is practically devoid of knots, takes a high polish and meets all ASTM standards.

From 1912 to the early 1940s about  $850\ \text{cubic}$  metres were quarried for building purposes and for monument bases by the Vernon Granite and Marble Works. The stone was used in the Vernon  $\,$ courthouse and still looks attractive after 60 years.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; \*1986, pp. 309-342; 1987, pp. 55-58; 1988, pp. 355-363 EMPR INF CIRC \*1988-6, p. 11, 29 EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1712A GSC MEM \*296, pp. 160-161 GSC OF 637 (Map C), 736, 2167

MINFILE NUMBER: 082LSW087

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, Figure 7, p. 98 CANMET RPT \*452, pp. 68-70; \*846, pp. 172, 173

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31 CODED BY: GSB REVISED BY: DISC PAGE:

FIELD CHECK: N FIELD CHECK: Y

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW088

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5563275

EASTING: 327124

TREND/PLUNGE:

REPORT: RGEN0100

457

NAME(S): LEFROY, BENJAMIN LEFROY

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L03W BC MAP:

LATITUDE: 50 11 47 N LONGITUDE: 119 25 20 W ELEVATION: 350 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada Map 46-7).

COMMODITIES: Granite **Building Stone** Dimension Stone

**MINERALS** 

SIGNIFICANT: Orthoclase ASSOCIATED: Plagioclase

MINERALIZATION AGE: Eocene

Quartz

**Biotite** 

Industrial Min.

Olivine

STRIKE/DIP:

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Magmatic

TYPE: R03 Dimension stone - granite DIMENSION: 15 x 6 Metres

COMMENTS: Quarry dimensions.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Harper Ranch

Coryell Intrusions Eocene

LITHOLOGY: Orthoclase Coarse Grained Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

The Lefroy showing is located 13 kilometres southwest of Vernon,

on the east shore of Okanagan Lake.

In this area, Devonian to Triassic sediments of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. These are intruded by granites and hypabyssal equivalents of the Eocene Coryell Intrusions. Patches of Kamloops Group volcanic rocks overlie the older rocks.

ratches of Kamloops Group volcanic rocks overlie the older rocks.

The granite was quarried for industrial use. It has a dull, light reddish colour, is medium to coarse-grained, containing pink orthoclase feldspar crystals up to 8 millimetres in length. Quartz is less abundant than feldspar. Plagioclase, biotite and a few grains of olivine are also reported. The quarry is 15 metres long with a face up to 6 metres high. The stone has good rift and grain and is practically devoid of knots or flaws. The rock is jointed but was able to supply fair-sized stone for building purposes was able to supply fair-sized stone for building purposes.

From 1910 to 1912 about 200 cubic metres were quarried for

building purposes and for monument bases by the Vernon Granite and

Marble Works.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1712A GSC MEM \*296, p. 160

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, Figure 7, p. 98 CANMET RPT \*452, pp. 67-68; \*846, p. 172

DATE CODED: 1985/07/24 GSB FIELD CHECK: N CODED BY: DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

MINFILE NUMBER: 082LSW088

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW089

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5567274 EASTING: 331576

NAME(S): LAKESIDE

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L03W BC MAP:

LATITUDE: 50 14 01 N LONGITUDE: 119 21 42 W ELEVATION: 370 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Clay

SIGNIFICANT: Clay MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary TYPE: B06 Fireclay

SHAPE: Tabular

Layered Industrial Min.

F07 Sedimentary kaolin

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary

GROUP Undefined Group

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

458

LITHOLOGY: Glaciolacustrine Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage

Harper Ranch

PHYSIOGRAPHIC AREA: Thompson Plateau

CAPSULE GEOLOGY

The Lakeside showing is located 7 kilometre west-southwest of

Vernon at Okanagan Landing.

In this area, west of the Okanagan Valley fault zone, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Middle Jurassic granitic rocks of the informally named Terrace Creek batholith intrude older rocks. Outliers of Eocene Penticton Group volcanic rocks are present. Much of the valley floor is covered by thick Quaternary sediments.

Quaternary glacio-lacustrine beds host a clay deposit quarried for industrial use. In 1920, some good quality tile was produced from the clay.

**BIBLIOGRAPHY** 

EMPR AR 1920-169

EMPR BULL 30, p. 12, 51 EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296, pp. 158-159 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 99-100

DATE CODED: 1985/07/24 DATE REVISED: 1993/03/31

CODED BY: GSB REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: Y

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW090

NATIONAL MINERAL INVENTORY:

NAME(S): KING EDWARD, CODY, CHANNEL

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03E BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

LATITUDE: 50 11 20 N LONGITUDE: 119 11 11 W ELEVATION: 1020 Metres

NORTHING: 5561921 EASTING: 343929

PAGE:

REPORT: RGEN0100

459

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole C-2 (Assessment Report 7666).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Miocene

**DEPOSIT** 

Surficial placers

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placer
SHAPE: Tabular
DIMENSION: 4000 x 800 x 50 STRIKE/DIP: TREND/PLUNGE: Metres COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

082LSW135 and 136.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Miocene Chilcotin Undefined Formation

LITHOLOGY: Quartz Pebble Gravel

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Plutonic Rocks

**CAPSULE GEOLOGY** 

The King Edward showing is located 10 kilometres southeast of Vernon east of Deer Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. Middle Jurassic granitic rocks of the informally named Terrace Creek batholith intrude older rocks. Eocene Penticton Group and Miocene Chilcotin Group volcanic and sedimentary rocks cap areas of older rock.

The basal, partly cemented, well rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits unconformably overlie metamorphic, granitic and pegmatitic rocks, and are generally overlain by Miocene basalts. The fluvial deposits, including 082LSW135 and 136, cover and area of

4000 by 800 by 50 metres.
Exploration pits are located at the base of the gravels. 1977 Kerr Addison Mines Ltd. explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical and drill programs were conducted. In 1978-79, Banqwest Resources Ltd. carried out geological mapping, hydrogeochemical, soil geochemical, radiometric, and trenching programs.

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EMPR ASS RPT 6483, 6914, \*7666 EMPR EXPL 1977-E77; 1978-E89; 1979-97,98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: Y

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW091

NATIONAL MINERAL INVENTORY:

NAME(S): HARRIS CREEK, LOWER HARRIS CREEK, BESSETTE CREEK, BURCHAN

STATUS: Past Producer Open Pit MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L03E

BC MAP: LATITUDE:

LONGITUDE: 119 00 19 W ELEVATION: 560 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit west of Harris Creek (Assessment Report 6812).

COMMODITIES: Gold

MINERALS SIGNIFICANT: Gold MINERALIZATION AGE: Cenozoic

DEPOSIT

CHARACTER: Unconsolidated

CLASSIFICATION: Placer

TYPE: C01 Surfi DIMENSION: 18 x 14

Surficial placers

14 Metres STRIKE/DIP: TREND/PLUNGE: COMMENTS: Channel (width x thickness).

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Cenozoic

**Undefined Group** 

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5563009 EASTING: 356896

REPORT: RGEN0100

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LITHOLOGY: Boulder Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Overlap Assemblage PHYSIOGRAPHIC AREA: Okanagan Highland

Plutonic Rocks

CAPSULE GEOLOGY

The Harris Creek deposit is located 6 kilometres south-southwest of Lumby, at Harris and Nicklen Creeks.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. The Harper Ranch Group is unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group volcanic and sedimentary rocks. Middle Jurassic granitic rocks intrude the older rocks. Eocene Penticton Group and Miocene volcanic and sedimentary rocks cap areas of older

A paleo-channel of Quaternary age or older, perched about 6 metres above Harris Creek, hosts placer gold mineralization. The poorly-sorted, stratified, angular boulder gravel of generally local derivation hosts coarse gold. The nuggets weigh up to 55 grams, are dark in colour and thoroughly polished. The gold is pure with a fineness of 874. Very minor black sand is reported. The channel is up to 18 metres wide and 14 metres deep. Gold-bearing remnants of the channel gravels occur to the east along the sides of Harris

Creek. The old channel was discovered in 1936 by A. Brewer and P. Johnson. Exploration adits and pits were dug both west of Harris Creek and east along its banks. Hydraulic mining on the west bank removed about 800 cubic metres of channel material. Between 1936 and 1945, 14150 grams of placer gold were produced (Bulletin 28, page 63). In 1978, Union Oil Co. of Canada Ltd. explored the sediments for uranium. Geological mapping, hydrogeochemical, soil geochemical and radiometric programs were conducted.

**BIBLIOGRAPHY** 

EMPR AR \*1936-D43,44,45,46

EMPR ASS RPT \*6812 EMPR BULL \*28, p. 62

EMPR EXPL 1978-E89,90

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

MINFILE NUMBER: 082LSW091

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM \*296, p. 138 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW092

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

NORTHING: 5556313 EASTING: 325427

REPORT: RGEN0100

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NAME(S): MARY ELLEN

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082L03W BC MAP: LATITUDE: 50 08 00 N LONGITUDE: 119 26 34 W ELEVATION: 460 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol #324 (Geological Survey of Canada Open File 637).

COMMODITIES: Thorium Uranium

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The Mary Ellen showing is located on the east side of Okanagan Lake, near the road, about 16 kilometres southwest of Vernon. The area is underlain by Middle Jurassic quartz diorite of the

informally named Terrace Creek batholith.

The showing is plotted as #324 on the Geological Survey of Canada Open File Map 637. There is no other information on it.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54

EMPR MAP 7216G

EMPR OF 1989-5, 1990-30, \*1990-32 EMPR PF (In 082 LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF \*637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1987/03/26 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082LSW092

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW093

NATIONAL MINERAL INVENTORY:

NAME(S): WINFIELD, ELEY, HALL

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 03 17 N LONGITUDE: 119 21 25 W ELEVATION: 950 Metres

NORTHING: 5547376 EASTING: 331285

MINING DIVISION: Vernon

LOCATION ACCURACY: Within 500M

COMMENTS: Adits (Assessment Report 7700).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Garnet

Magnetite

MINERALIZATION AGE: Miocene

DEPOSIT

CHARACTER: Unconsolidated

CLASSIFICATION: Placer

TYPE: C01 SHAPE: Tabular Surficial placers

DIMENSION: 5000 x 1500 x 60 STRIKE/DIP: Metres COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

TREND/PLUNGE:

082LSW019, 72 and 142).

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** Unnamed/Unknown Group Miocene

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Overlap Assemblage Plutonic Rocks PHYSIOGRAPHIC AREA: Okanagan Highland

#### CAPSULE GEOLOGY

The Winfield prospect is located 24 kilometres south-southwest of Vernon, between Wood Lake and Clark Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. Middle Jurassic granitic rocks of the informally named Terrace Creek batholith intrude the older rocks. Eocene Penticton Group and Miocene Chilcotin Group volcanic and sedimentary rocks cap areas of older rock.

The basal, partly cemented, well-rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits unconformably overlie gneissic rocks, amphibolite, granitic rocks and/or Early Tertiary volcanic rocks. The Miocene granitic rocks and/or Early Tertiary volcanic rocks. The Miocene sediments are commonly overlain by Miocene plateau basalt flows. The gold is pure (850 fine), of a reddish colour, and is found as flattened pellets up to 2 millimetres in size, with some very fine gold reported. Garnet and a little magnetite occur with the gold. The fluvial deposits, including 082LSW019, 72 and 142, are estimated to cover a 5000 by 1550 by 60 metre area.

By 1936, exploration drifts of 107 and 52 metres had been completed. Between 1933 and 1945, a total of 2330 grams of placer and production was reported from the Winfield camp (includes

gold production was reported from the Winfield camp (includes 082LSW019, 082LSW072 and 082LSW142) (Bulletin 28). In 1977-79, Uni Oil Company explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical, radiometric, airborne magnetometer and drill programs were conducted.

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EMPR AR \*1933-A197,198; 1934-D34; 1935-D15; \*1936-D46,47,48

EMPR ASS RPT 6631, 6944, \*7700

EMPR ASS RF1 0031, 0211, 125 EMPR BULL 28, p. 62,63 EMPR EXPL 1977-E77; 1978-E90; 1979-98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8512G

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW094

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

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NAME(S): **LAVINGTON LIMESTONE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L03E BC MAP:

LATITUDE: 50 12 51 N LONGITUDE: 119 05 42 W ELEVATION: 762 Metres NORTHING: 5564543 EASTING: 350532

LOCATION ACCURACY: Within 5 KM

COMMENTS: Centre of surface trace of limestone band south of Lavington

(Minister of Mines Annual Report 1961 p. 145).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Silica MINERALIZATION AGE: Permian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Fossils

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime Massive

Industrial Min. Limestone

**DIMENSION:** 3800 x 150 Metres STRIKE/DIP: 084/53S TREND/PLUNGE:

COMMENTS: Bedding attitude near the west end of the band. Dimensions of the

limestone band.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Harper Ranch Unnamed/Unknown Formation

Paleozoic-Mesozoic Harpe DATING METHOD: Fossil

MATERIAL DATED: Fossils LITHOLOGY: Limestone

Argillite

Chert Volcanic Gneiss

HOSTROCK COMMENTS: Limestones of the Devonian to Triassic Harper Ranch Group are Permian

in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Harper Ranch

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1961

COMMODITY **GRADE** 

Limestone 33.8000 Per cent

COMMENTS: Sample taken across 152 metres of limestone. The grade is for CaO.

REFERENCE: Minister of Mines Annual Report 1961, page 148 (Sample 9).

CAPSULE GEOLOGY

A 150-metre wide band of Permian limestone extends westward along the north side of Blue Nose Mountain for 3.8 kilometres, 1.5 kilometres south of Lavington and 13 kilometres east of Vernon.

The band lies within a sequence of argillite and chert of the Devonian to Triassic Harper Ranch Group. To the east and west, the band is truncated by faults that bring volcanics and gneiss in contact with the limestone. Bedding strikes 080 to 088 degrees and dips 40 to 65 degrees south.

The band is comprised of white and grey streaked, coarse-grained siliceous limestone with abundant volcanic inclusions and knots and lenses of light colored chert.

A sample of chips taken at 3.0 metre intervals for 152 metres along a road cut contained 33.8 per cent CaO, 2.66 per cent MgO, 22.39 per cent insolubles, 10.96 per cent R2O3, 3.36 per cent Fe2O3, 0.06 per cent MnO, 0.05 per cent P2O5, trace sulphur, 28.18 per cent

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

ignition loss and 0.19 per cent water (Minister of Mines Annual Report 1961, p. 148, Sample 9).

**BIBLIOGRAPHY** 

EMPR AR \*1961-145,147,148 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G

EMPR OF 1989-5, 1990-30, 1992-18 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MAP 1059A, 1712A GSC MEM 296 pp. 38, 39, 42 GSC OF 481, 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1985/07/24 DATE REVISED: 1989/08/24 CODED BY: GSB REVISED BY: PSF

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW095

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5595758

EASTING: 309422

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

468

NAME(S): SALMON RIVER NORTH, FALKLAND

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 28 58 N

LONGITUDE: 119 41 11 W ELEVATION: 880 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Knoll (Minister of Mines Annual Report 1961, page 144).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Silica

Quartz

MINERALIZATION AGE: Permian

**DEPOSIT** 

CHARACTER: Massive Lavered Industrial Min.

CLASSIFICATION: Sedimentary Limestone

TYPE: R09 L SHAPE: Tabular **DIMENSION:** 1200 x 150 Metres

COMMENTS: Limestone lens.

STRIKE/DIP: 140/90 TREND/PLUNGE:

PHYSIOGRAPHIC AREA: Thompson Plateau

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**GROUP** TRATIGRAPHIC AGE Paleozoic-Mesozoic Harper Ranch

Undefined Formation

LITHOLOGY: Limestone

Chert Argillite

HOSTROCK COMMENTS: Limestone of the Devonian to Triassic Harper Ranch Group is Permian in

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Harper Ranch
METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE:

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

YEAR: 1961

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY

GRADE Limestone 50.1300

COMMENTS: Grade is for CaO. REFERENCE: Minister of Mines Annual Report 1961, pages 144,148.

CAPSULE GEOLOGY

The Salmon River North showing is located 9 kilometres west of Falkland, north of the Salmon River.

**FORMATION** 

In this area, sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola Group rocks. Extensive Eocene Kamloops Group volcanic rocks cap the older rocks.

The Harper Ranch Group hosts a Permian limestone lens. consists of vertical thick and thin beds of light grey limestone over a maximum thickness of 150 metres and an exposed strike of  $1200\,$ metres. The lens contains irregular zones and patches of chert, quartz and argillaceous material. Sampling returned 50.13 per cent CaO, 1.6 per cent MgO, 0.24 per cent Fe2O3 and insolubles at 6.5 per cent (Minister of Mines Annual Report 1961, pages 144, 148).

**BIBLIOGRAPHY** 

EMPR AR \*1961-144,145,148

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363

MINFILE NUMBER: 082LSW095

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30, \*1992-18, pp. 81, 83 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 637 (Map B), 736, 2167 GSC P 89-1E pp. 51-60

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW096

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5593722

**EASTING: 310158** 

REPORT: RGEN0100

470

NAME(S): SALMON RIVER SOUTH, FALKLAND

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 27 53 N

LONGITUDE: 119 40 30 W ELEVATION: 671 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of limestone outcrop just south of the Salmon River

(Geological Survey of Canada Map 1059A).

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite MINERALIZATION AGE: Permian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Fossils

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary
TYPE: R09 Limestone Industrial Min.

STRIKE/DIP: 152/55E DIMENSION: 180 x 60 TREND/PLUNGE: Metres

COMMENTS: General attitude of bedding. Dimensions of limestone band.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic-Mesozoic Harper Ranch IGNEOUS/METAMORPHIC/OTHER **FORMATION** Paleozoic-Mesozoic Unnamed/Unknown Formation

DATING METHOD: Fossil MATERIAL DATED: Fossils

LITHOLOGY: Limestone

HOSTROCK COMMENTS: Limestones of the Devonian to Triassic Harper Ranch Group are Permian

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1961 Assay/analysis

**GRADE COMMODITY** Per cent

39.7600 Limestone

COMMENTS: Sample taken across 60 metres of limestone. The grade is for CaO. REFERENCE: Minister of Mines Annual Report 1961, page 148 (Sample 2).

CAPSULE GEOLOGY

A band of Permian limestone of the Devonian to Triassic Harper Ranch Group is exposed for 60 metres along a road cut and continues for 180 metres southwest up the south side of the Salmon River valley, 10 kilometres southwest of Falkland.

The limestone is faulted, folded and intruded by narrow sheared

dikes. Bedding generally strikes 152 degrees and dips 55 degrees

northeast.

The deposit is comprised of black, fine-grained, thinly-bedded, impure limestone that is cut by narrow, white calcite veinlets.

A 60 metre long sample of chips taken along the road cut contained 39.76 per cent CaO, 0.82 per cent MgO, 25.26 per cent insolubles, 1.26 per cent R203, 0.97 per cent Fe203, 0.04 per cent MnO, 0.03 per cent P205, 0.06 per cent sulphur, 32.61 per cent ignition loss (Minister of Mines Annual Report 1961, p. 148, Sample 2)

BIBLIOGRAPHY

EMPR AR \*1961-145,146,147

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G

EMPR OF 1989-5, 1990-30, 1992-18

MINFILE NUMBER: 082LSW096

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1985/07/24 DATE REVISED: 1989/08/24 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW097

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5570280 EASTING: 336269

REPORT: RGEN0100

472

NAME(S): **VERNON LIMESTONE** 

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L06W

BC MAP:

LATITUDE: 50 15 43 N LONGITUDE: 119 17 50 W ELEVATION: 380 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Minister of Mines Annual Report 1961, page 147).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Permian

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 DIMENSION: 800 Limestone x 800 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Limestone mass is 800 metres in diameter.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Limestone

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic and the limestone is

Permian in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1961 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** Per cent I imestone

COMMENTS: Grade is for CaO.

REFERENCE: Minister of Mines Annual Report 1961, pages 147,148.

**CAPSULE GEOLOGY** 

The Vernon Limestone deposit is located 2 kilometres west of

Vernon.

Sedimentary rocks of the Devonian to Triassic Harper Ranch Group are in probable unconformable contact with Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. Middle Jurassic granitic plugs intrude these rocks. Outliers of Eocene

Kamloops Group volcanic rocks occur.

The Harper Ranch Group hosts a Permian limestone lens which was quarried for industrial use. The lens comprises an 800 metre diameter mass of medium to dark grey, medium-grained limestone with veinlets and lenses of quartz and calcite. Sampling returned 49.9 per cent CaO, 2.2 per cent MgO, 0.62 per cent Fe2O3 and insolubles at 5.1 per cent (Minister of Mines Annual Report 1961, pp. 147-148).
Minor production for lime was discontinued due to the poor quality of the limestone.

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EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

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EMPR PF (In 082LSW022 - Jones, W.C.(1959): Groundwater in the BX

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW098

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5593822 EASTING: 341731

REPORT: RGEN0100

474

NAME(S): MASON, KNOB HILL, ARMSTRONG LIMESTONE, MOUNT ROSE

STATUS: Past Producer Open Pit MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06E

UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 28 30 N LONGITUDE: 119 13 50 W ELEVATION: 470 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Quarry (Minister of Mines Annual Report 1961, page 146).

> COMMODITIES: Limestone Marble

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz

Muscovite Pyrite

ALTERATION: Limonite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Cambrian-Ordovician

**DEPOSIT** 

CHARACTER: Layered Stratiform

CLASSIFICATION: Sedimentary Metamorphic Industrial Min.

TYPE: R09 Limestone SHAPE: Tabular

MODIFIER: Fractured

DIMENSION: STRIKE/DIP: 115/30S TREND/PLUNGE:

COMMENTS: Attitude of marble beds.

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Cambrian-Ordovician **Undefined Group** Tsalkom

LITHOLOGY: Marble

Limestone Schist Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

INVENTORY

ORE ZONE: ARMSTRONG LIMESTONE REPORT ON: Y

> CATEGORY: YEAR: 1971 Measured

QUANTITY: 998000 Tonnes COMMODITY

55.3000 Per cent Limestone

COMMENTS: Block in the centre of the limestone mass. Grade given for CaO with a

cutoff grade of 0.10 per cent Fe2O3.
REFERENCE: Industrial Mineral File - Kerr, J. 1971, pages 6-7.

CAPSULE GEOLOGY

The Mason showing is located 4 kilometres northwest of

Armstrong.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

A marble unit in the Tsalkom Formation has been quarried for

calcite for agricultural use and evaluated for other industrial potential. The unit comprises 5 to 15 centimetre beds of white to pink, bluish grey, and white and grey fine-to coarse-grained high-calcium marble, within a unit at least 55 metres thick. The

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#### **CAPSULE GEOLOGY**

beds strike 115 degrees and dip 30 degrees south. Thin sheets of intercalated schist and occasional vertical igneous dikes are present. The marble is highly fractured. Muscovite, quartz, pyrite and limonite are occasionally present. Sampling of pure marble returned values of 98.3 per cent calcite, 0.10 per cent Fe203 and 1.1 per cent silica.

Earlier this century, the marble was quarried and burnt on site in a lime kiln. In 1970, Mount Rose Mining Co. Ltd. drilled 11 holes, followed in 1971 by an evaluation of the industrial potential of the deposit. Measured geological reserves are 998,000 tonnes grading 55.3 per cent CaO with a cutoff grade of 0.10 per cent Fe2O3 (Industrial Minerals File - Kerr, J. 1971).

### **BIBLIOGRAPHY**

EMPR AR \*1961-145,146,148

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30, \*1992-18, p. 90, 91

EMPR PF (In 082LSW General - Claim Map, 1966; Report by J. Kerr, 1971)

EMPR RGS 1976

GSC MEM 296

GSC OF 637 (Map B), 736, 2167

GSC P 89-1E pp. 51-60

GSC SUM RPT 1931A, p. 99

CANMET RPT (Bureau of Mines) \*811, p. 204, 205

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW099

NATIONAL MINERAL INVENTORY:

NAME(S): **KENDRY CREEK** 

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L06E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

476

LATITUDE: 50 27 29 N LONGITUDE: 119 07 14 W ELEVATION: 520 Metres

NORTHING: 5591710 EASTING: 349481

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry on the north bank of Kendry Creek on Lot 989 (Minister of Mines

Annual Report 1961, page 146).

COMMODITIES: Limestone

Marble

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Pyrite

MINERALIZATION AGE: Cambrian-Ordovician

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Sedimentary TYPE: R09 Lime

Stratiform

Metamorphic

Limestone

Industrial Min.

SHAPE: Tabular
DIMENSION: 50 x 12
COMMENTS: Marble lens.

Metres

STRIKE/DIP: 075/75N

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician

**GROUP** 

Undefined Group

**FORMATION** Tsalkom

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Marble

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Shuswap Highland

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

YFAR: 1961

**COMMODITY** 

**GRADE** 

Limestone

53.0700

COMMENTS: Limestone grade is for CaO, over 12 metre width.

Per cent

REFERENCE: Minister of Mines Annual Report 1961, pages 146, 148.

CAPSULE GEOLOGY

The Kendry Creek deposit is located 5 kilometres east of

Armstrong on the north side of Kendry Creek.

This area, east of the Okanagan Valley fault, is underlain by gneissic rocks of unknown age, metasedimentary rocks of the Proterozoic Silver Creek Formation and volcanic and sedimentary rocks of the Cambro-Ordovician Tsalkom Formation and the Upper Triassic to Lower Jurassic Nicola Group. All these units are probably in

low-angle fault contact with each other. Intruding these rocks are Middle Jurassic granitic bodies. Pegmatite bodies of Mesozoic or Cenozoic age intrude the Silver Creek Formation.

A small marble lens within slates of the Tsalkom Formation has been a source of calcite for industrial use. The coarse-grained, grey marble is exposed over a 7 to 15-metre width and can be traced for a length of 50 metres, striking 075 degrees and dipping 75 degrees north. The individual beds are up to 0.5 metre thick with intercalated layers of calc-silicate minerals. Fine-grained crystalline pyrite is present is some areas. In 1944, sampling assayed 94.2 per cent calcite and 52.8 per cent CaO. Sampling in 1961 returned 53.1 per cent CaO, 0.30 per cent MgO, 0.40 per cent Fe203 and insolubles at 3.9 per cent (Minister of Mines Annual Report 1961, pp. 146, 148).

## MINFILE MASTER REPORT

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### **CAPSULE GEOLOGY**

Earlier this century, the marble was quarried and burnt on site in a lime kiln. Later, Land Limes Ltd. operated a small quarry and crushing mill to produce pulverized limestone for agricultural purposes. In 1921, 308 tonnes of limestone were quarried.

#### **BIBLIOGRAPHY**

EMPR AR \*1961-145-148
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
EMPR MAP 7216G, 8513G
EMPR OF 1989-5, 1990-30, 1992-18
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MAP 46-7, 1712A
GSC MEM 296
GSC OF 637, 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT 1931A, p. 99
CANMET RPT (Bureau of Mines) \*811, p. 204,205

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW100

NATIONAL MINERAL INVENTORY:

NAME(S): **MONTE LAKE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 082L05W BC MAP: LATITUDE: 50 29 26 N

NORTHING: 5597010 EASTING: 299032

LONGITUDE: 119 50 00 W ELEVATION: 700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence exposed in a highway cut at the south end of Monte Lake (Geological Survey of Canada, Miscellaneous Report 8, page 65).

COMMODITIES: Agate Zeolite 7 Gemstones

**MINERALS** 

SIGNIFICANT: Agate Zeolite

COMMENTS: Moss agate and ferrierite are reported.

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Stratabound Disseminated Vein Industrial Min.

CLASSIFICATION: Epigenetic TYPE: Q03 Agate

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Eocene Kamloops Undefined Formation

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**CAPSULE GEOLOGY** 

The Monte Lake showing is located 20 kilometres west of

Falkland, near the southeast corner of Monte Lake.

In this area, Upper Triassic to Lower Jurassic Nicola sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the

older units.

Kamloops Group volcanic flows host agate and ferrierite (zeolite) mineralization. Moss agate occurs as nodules, amygdules

and veins in a gently dipping volcanic bed.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 5214G, 7216G EMPR OF 1989-5, 1990-30

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC MISC RPT \*8 p. 65

GSC OF 637, 736, 2167 GSC P 72-53, pp. 22-23; 89-1E pp. 51-60

Canadian Rockhound Vol. 1, No. 4, p. 7 (1957)

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW101

NATIONAL MINERAL INVENTORY:

NAME(S): **DOUGLAS LAKE ROAD** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L05W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 23 30 N LONGITUDE: 119 49 52 W ELEVATION: 500 Metres NORTHING: 5586011 EASTING: 298771

LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrences are in bluffs on the west side of the Douglas Lake road 11 km south of Westwold (Geological Survey of Canada, Miscellaneous

Report 8, page 65).

COMMODITIES: Agate

Gemstones

**MINERALS** 

SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Epigenetic TYPE: Q03 Agate

Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Eocene Kamloops Undefined Formation

LITHOLOGY: Felsic Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Douglas Lake Road showing is located 23 kilometres southwest

of Falkland, west of the Salmon River.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These volcanic rocks of the Devonian to Triassic Harper Ranch Group. units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group grey, fine-grained felsic volcanic rocks host agate. The agate occurs as lumps and seams.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 5214G, 7216G EMPR OF 1989-5, 1990-30 EMPR P 1983-1, pp. 89-91

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC MISC RPT \*8, p. 6 GSC OF 637, 736, 2167

GSC P 72-53, pp. 22-23; 81-1B, pp. 170-177; 89-1E pp. 51-60

Placer Dome File

Western Homes, October 1961, p. 22

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW102

NATIONAL MINERAL INVENTORY:

NAME(S): PINAUS EAST

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L05E BC MAP:

NORTHING: 5588525 EASTING: 317221

PAGE:

REPORT: RGEN0100

480

LATITUDE: 50 25 13 N
LONGITUDE: 119 34 23 W
ELEVATION: 1040 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Geological Survey of Canada, Paper 72-53, page 22).

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Agate MINERALIZATION AGE: Eocene Jasper

DEPOSIT

CHARACTER: Stratabound
CLASSIFICATION: Epigenetic
TYPE: Q03 Agate Disseminated Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eocene Undefined Formation Kamloops

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage
METAMORPHIC TYPE: Regional Harper Ranch RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**CAPSULE GEOLOGY** 

The Pinaus East showing is located 9 kilometres south of

Falkland, south of Pinaus Lake.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the

The showing comprises jasper and agate hosted in Kamloops Group

basalt flows.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P \*72-53, p. 22-23; 89-1E pp. 51-60

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW103

NATIONAL MINERAL INVENTORY:

NAME(S): WHITEMAN JASPER

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 13 51 N LONGITUDE: 119 29 11 W ELEVATION: 600 Metres NORTHING: 5567255 EASTING: 322672

LOCATION ACCURACY: Within 500M

COMMENTS: Midpoint between 2 showings, 350 metres apart (Geological Survey of

Canada Miscellaneous Report 8, page 79).

COMMODITIES: Gemstones

MINERALS
SIGNIFICANT: Jasper MINERALIZATION AGE: Tertiary

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Quaternary **Undefined Group** Undefined Formation

LITHOLOGY: Unconsolidated Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage Plutonic Rocks

CAPSULE GEOLOGY

The Whiteman Jasper showing is located 15 kilometres westsouthwest of Vernon, on the south side of Whiteman Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Eocene Coryell granitic rocks intrude and are in fault contact with Middle Jurassic intrusions. Eccene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Unconsolidated Quaternary sediments along the creek host placer(?) jasper. The jasper is fine-grained and red.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976

GSC MEM 296

GSC MISC RPT \*8, pp. 78-79 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

Western Homes and Living, October 1961, p. 22

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW104

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

482

NAME(S): **INGRAM** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082L05E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 25 26 N
LONGITUDE: 119 41 24 W
ELEVATION: 1000 Metres
LOCATION ACCURACY: Within 5 KM NORTHING: 5589221 EASTING: 308929

COMMENTS: Showing (Geological Survey of Canada, Paper 72-53, page 23).

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Epigenetic Disseminated Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** 

Eocene Undefined Formation Kamloops

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional Harper Ranch RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Ingram showing is located 13 kilometres southwest of Falkland, at the edge of the plateau near Ingram Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group

sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group basalt flows host agate. The agate comes in

various shapes and colours.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P \*72-53, p. 23; 89-1E pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW105

NATIONAL MINERAL INVENTORY:

NAME(S): BLIZZARD, BOULEAU LAKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 17 40 N LONGITUDE: 119 38 36 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS:

COMMODITIES: Opal Gemstones Agate

**MINERALS** 

SIGNIFICANT: Agate Opal COMMENTS: Black agate and common opal are reported.

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Stratabound
CLASSIFICATION: Epigenetic
TYPE: Q11 Volca Disseminated Industrial Min.

Volcanic-hosted opal

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene GROUP Kamloops **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5574711 EASTING: 311732

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LITHOLOGY: Feldspar Porphyry Andesite

Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

Harper Ranch

PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Blizzard showing is located 26 kilometres west of Vernon,

north of Bouleau Lake.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group and Penticton Group volcanic and sedimentary rocks overlie the older units. Kamloops Group volcanic rocks host agate and opal. Black agate

and common opal occur in feldspar-porphyry andesite flows.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P \*72-53, p. 23; 89-1E pp. 51-60

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW106

NATIONAL MINERAL INVENTORY:

NAME(S): SHORTS CREEK AGATE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L04E BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NORTHING: 5560222 EASTING: 314931

PAGE:

REPORT: RGEN0100

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LATITUDE: 50 09 55 N LONGITUDE: 119 35 29 W ELEVATION: 1370 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Showing along a logging road leading to the plateau north of Shorts Creek (Geological Survey of Canada, Paper 72-53, page 23).

COMMODITIES: Agate

Gemstones

MINERALS
SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Epigenetic Industrial Min.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Penticton **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation

LITHOLOGY: Volcanic

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Thompson Plateau

Harper Ranch

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage
METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Shorts Creek Agate showing is located 25 kilometres west-

southwest of Vernon, north of Shorts Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Penticton Group volcanic and

sedimentary rocks overlie the older units.

Penticton Group volcanic rocks host agates. Amygdules of agate

were found along a logging road leading to the plateau north of

Shorts Creek.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P \*72-53, p. 23; 89-1E pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW107

NATIONAL MINERAL INVENTORY:

NAME(S): ADELPHI

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082L05W BC MAP:

NORTHING: 5586736 EASTING: 301684

PAGE:

REPORT: RGEN0100

485

LATITUDE: 50 23 57 N LONGITUDE: 119 47 26 W ELEVATION: 1100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing along the cliffs at the head of Adelphi Creek (Geological Survey of Canada, Paper 72-53, page 23).

COMMODITIES: Agate Gemstones

MINERALS SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Disseminated Vein

Industrial Min. CLASSIFICATION: Epigenetic

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Focene

Undefined Formation Kamloops

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage
METAMORPHIC TYPE: Regional Harper Ranch RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**CAPSULE GEOLOGY** 

The Adelphi showing is located 20 kilometres southwest of

Falkland, near Adelphi Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group volcanic flows host agate. The agate occurs as

amygdules and veins.

**BIBLIOGRAPHY** 

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GSC MEM 296

GSC MEM 250 GSC OF 637, 736, 2167 GSC P \*72-53, p. 23; 89-1E pp. 51-60

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW108

NATIONAL MINERAL INVENTORY:

NAME(S): ARMSTRONG KYANITE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

LATITUDE: 50 28 01 N LONGITUDE: 119 05 56 W ELEVATION: 980 Metres NORTHING: 5592654 EASTING: 351047

PAGE:

REPORT: RGEN0100

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ELEVATION: 980 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Showing on the ridge north of Glanzier Creek (Geological Survey of Canada, Summary Report 1931A, page 68).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Mica MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Metamorphic Industrial Min. TYPE: P02 Kyanite-sillimanite schists

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

 STRATIGRAPHIC AGE
 GROUP
 FORMATION
 IGNEOUS/METAMORPHIC/OTHER

 Proterozoic-Paleoz.
 Unnamed/Unknown Informal

LITHOLOGY: Mica Schist

HOSTROCK COMMENTS: Metasedimentary rocks of the Kootenay Terrane.

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Armstrong Kyanite showing is located 6 kilometres eastnortheast of Armstrong, on the ridge north of Glanzier Creek.

The area east of the Okanagan Valley fault is underlain by
gneissic rocks of unknown age, metasedimentary rocks of the
Proterozoic Silver Creek Formation, metasedimentary rocks of the
Kootenay Assemblage including volcanic and sedimentary rocks of the
Cambro- Ordovician Tsalkom Formation and the Upper Triassic to Lower
Jurassic Nicola Group. All these units are probably in low-angle
fault contact with each other. Middle Jurassic granitic plutons
intrude these rocks. Mesozoic or Cenozoic pegmatite bodies intrude
the Proterozoic Silver Creek Formation.

Mica schists of the Silver Creek Formation host abundant small kyanite crystals, formed during high grade metamorphism.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW109

NATIONAL MINERAL INVENTORY:

NAME(S): CARSWELL, BOULEAU LAKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 17 25 N LONGITUDE: 119 38 43 W ELEVATION: 1420 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing on logging road south of creek crossing (Geological Survey of Canada Paper 72-53, p. 23).

COMMODITIES: Agate Gemstones

MINERALS SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Epigenetic TYPE: 004 Felds Disseminated Industrial Min. Feldspar-quartz pegmatite

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene

GROUP Kamloops

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5574253 EASTING: 311577

REPORT: RGEN0100

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LITHOLOGY: Volcaniclastic Sandstone

Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional

Harper Ranch

PHYSIOGRAPHIC AREA: Thompson Plateau

RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Carswell showing is located 26 kilometres west of Vernon,

north of Bouleau Lake.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Penticton Group and Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group volcaniclastic sandstone, between andesite flows,

hosts agate.

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW110

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5567878 EASTING: 310002

REPORT: RGEN0100

488

NAME(S): **BRETT**, BRETT MAIN, BRETT 1, BRETT 1-4, DISCOVERY, R.W.,

TR 1, MAIN SHEAR, WHITEMAN CREEK,

BONAN7A

STATUS: Developed Prospect

REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 13 57 N
LONGITUDE: 119 39 51 W
ELEVATION: 1340 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Main Shear zone (Assessment Report 19482).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Electrum ASSOCIATED: Quartz Gold

ALTERATION: Silica Sericite ALTERATION TYPE: Silicific'n

Chalcedony Chlorité Clay

Galena Argentite Pyrite

**Epidote** Calcite

Hematite Argillic Oxidation MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Vein

Stockwork

Breccia

Shear

CLASSIFICATION: Epithermal TYPE: H05 Epithermal Au-Ag: low sulphidation DIMENSION: 1500 x 250 x 7 Metres

COMMENTS: Dimensions are of the Main Shear zone.

Eocene

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene

**GROUP** Penticton **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

Unnamed/Unknown Formation Coryell Intrusions

STRIKE/DIP: 155/80W

LITHOLOGY: Trachyandesite Tuff

Feldspar Porphyry Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage

Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

INVENTORY

ORE ZONE: BONANZA

REPORT ON: Y

CATEGORY: QUANTITY:

Inferred 11970 Tonnes YFAR: 1992

COMMODITY

**GRADE** 

Gold 39.1200 Grams per tonne
COMMENTS: Along a 150-metre section in the Bonanza zone, within the Main Shear

zone

REFERENCE: Stockwatch, July 11, 1996.

CAPSULE GEOLOGY

The Brett prospect is located 28 kilometres west of Vernon, on the steep north slope of Whiteman Creek Valley. The prospect comprises the Main Shear zone which hosts the Discovery vein (part of

the Bonanza zone), the R.W. vein and the TR-1 and TR-21 zones.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eocene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude these rocks.

A shear zone within the Penticton Group volcanic rocks hosts gold and silver mineralization. The 1500 metre long shear strikes 155 degrees, dips 80 degrees west for at least 250 metres depth and is 2 to 15 metres wide. Mineralization occurs with quartz and chalcedony in veins, vein stockworks and brecciated veins, in fracture controlled zones near or within the shear zone, and in altered, more porous trachyandesite tuffs and flows adjoining the

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

shear. The veins have crustiform, banded and vuggy textures. Minor mineralization is present in a Coryell feldspar porphyry dike which fills much of the shear zone, however, most mineralization appears to pre-date the dike. Mineralization is largely structurally controlled but is, in part, lithogically controlled. Pyrite, gold, electrum and minor argentite occur.

Gold mineralization varies from very fine-grained in volcanic rocks to coarse flakes in quartz veining. Most of the gold seems to be concentrated within a 200-metre strike length, in the Bonanza zone and the R.W. vein; furthermore the best gold values appear to occur between the 1230-metre and 1240-metre elevations. Intense clay alteration is prominent in portions of the shear zone. The tuffs have suffered chlorite-epidote-calcite -hematite alteration changing to clay(illite)- sericite-silica alteration adjacent to the shear zone.

In 1988, a percussion-drill hole intersected a high grade zone which assayed 100 grams per tonne gold over 44 metres (Property File - Huntington Resources Inc., Statement of Material Facts, July 21, 1989). Average grades and true thickness are in the range of 4 grams per tonne gold over 2 metres, however no grade and tonnage figures are available. The R.W. vein is located 15 metres west of the Main Shear Zone and may be the northwest continuation/offset or an offshoot of the main vein which hosts the Bonanza Zone.

The Discovery vein and the Gossan zone (082LSW132) were discovered in 1984; the Main Shear zone and the R.W. vein were discovered in 1986. The New Discovery zone (082LSW131) was discovered in 1987 and the East zone (082LSW084) in 1988.

In 1984-89, Huntington Resources Ltd. carried out geological mapping, soil geochemistry, trenching and drilling. Similar exploration was continued by Corona Corporation during 1987-89. In 1990, Huntington carried out some drilling. Exploration was resumed in 1993.

Estimated reserves of the Bonanza zone (along a 150-metre section) are 11,970 tonnes grading 39.12 grams per tonne gold (Stockwatch, July  $11,\ 1996$ ).

During 1994-1995, Liquid Gold Resources Inc., under an option agreement with Huntington, completed a 240-metre long adit from the 1205-metre level under the Bonanza zone. An estimated 1090 tonnes of mineralized rock, averaging 5.76 grams per tonne gold were extracted and stockpiled outside the portal.

Huntington Resources Ltd. concentrated its 1995 work on mining in the high grade R.W. gold vein. Closely spaced sampling of the vein yielded an average grade of 34.35 grams per tonne gold over a strike length of 51.3 metres and across a true width of 0.44 metre. Drilling in previous programs has tested the vein over a vertical range of at least 25 metres. Mining began in August 1995 and continues on schedule; ore is being stockpiled. The 240-metre adit on the 1205-metre level has been rehabilitated and a 15-metre raise was driven in the Bonanza zone. Also in 1995, with support from the Explore B.C. Program, Huntingdon Resources successfully bypassed an underground caved area securing access to the Bonanza zone and collected a 250 tonne surface bulk sample of the R.W. vein which averaged 34.2 grams per tonne gold, confirming previous surface sampling of this vein (Explore B.C. Program 95/96 - M27).

On July 9, 1996, Huntington trucked approximately 225 tonnes of ore from the R.W. vein to Cominco's smelter at Trail for processing and sale. The anticipated grade is 34.18 grams per tonne gold and 63.43 grams per tonne silver. A second shipment of 275 tonnes, with an expected grade of 42.86 grams per tonne gold, will be shipped later in July.

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 \*B15-22; 1988-A2,21,43; 1989-50; 1990-17,55

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 p. 26; 1993-13, p. 14; 1994-1, p. 14; 1994-19, pp. 12, 15; 1995-1,
 pp. 12, 15; 1995-9, p. 17; 1996-1, p. 17; 1997-1, p. 22

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 Inc., Statement of Material Facts, July 21, 1989; Geological notes
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GSC MEM 296

GSC OF 637, 736, 2167

PAGE:

REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/12/05 CODED BY: AFW FIELD CHECK: N DATE REVISED: 1996/07/16 REVISED BY: TGS FIELD CHECK: Y

PAGE:

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW111

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

491

NAME(S): **ZUMAR**, ZUMAR 2, ZUMAR GOLD, ZUMAR 2-4

STATUS: Prospect MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 00 37 N
LONGITUDE: 119 38 27 W
ELEVATION: 1150 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Vein (Assessment Report 16416). NORTHING: 5543115 EASTING: 310791

COMMODITIES: Gold Silver Copper 7inc Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Quartz Pyrite

ALTERATION: Hematite
ALTERATION TYPE: Oxidation Śericite Malachite Azurite Sericitic

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Poly DIMENSION: 230 x 65 Epithermal Au-Ag: low sulphidation S TREND/PLUNGE: Polymetallic veins Ag-Pb-Zn±Au H05 STRIKE/DIP: 100/80S Metres

COMMENTS: Vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Unnamed/Unknown Formation

LITHOLOGY: Andesite

Dike

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist

COMMENTS: The Harper Ranch shows some hornfelsing.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1980 CATEGORY: Assav/analysis

SAMPLE TYPE: Bulk Sample COMMODITY **GRADE** 

Grams per tonne Silver 42,0000 4.7000 Gold Grams per tonne Per cent Copper 0.0900 0.1000 Per cent Lead

Zinc 0.1000 Per cent COMMENTS: Grades are from a 55.1 tonne hand-cobbed bulk sample.

REFERENCE: Assessment Report 21600.

CAPSULE GEOLOGY

The Zumar prospect is located 16 kilometres northwest of

Kelowna, west of Terrace Creek.

In this area, Devonian to Triassic Harper Ranch Group sedimentary and volcanic rocks have been intruded by Middle Jurassic granitic rocks. Outliers of Eocene Penticton Group volcanic and

sedimentary rocks overlie the older units.

A quartz vein in metamorphosed Harper Ranch Group basaltic to andesitic flows hosts gold, silver, lead, zinc and copper mineralization. Pyrite, some of which is coarse-grained, and minor chalcopyrite are irregularly disseminated in the vein. The  $0.3\ to$ 0.4 metre-thick, massive, occasionally vuggy, brecciated or shattered vein has a known strike length of 230 metres and a down dip extension of at least 65 metres. The vein is cut by an Eocene(?) dike. The wallrocks are strongly fractured, with heavy hematite coating of

fractures, and exhibit pervasive sericitic alteration. In 1980, two

MINFILE NUMBER: 082LSW111

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

lots of hand-cobbed vein material (totalling 55.1 tonnes) were shipped as a bulk sample, returning an averaging gold grade of 4.7 grams per tonne, 42 grams per tonne silver, 0.09 per cent copper, 0.10 per cent lead and 0.10 per cent zinc (Assessment Report 21600). In 1979-82, Zumar Resources Ltd. carried out trenching, bulk sampling and drilling. In 1986-87, Skyworld Resources and Development Ltd. conducted magnetometer, soil geochemistry, geological mapping, trenching and drilling programs.

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GSC P 89-1E pp. 51-60

DATE CODED: 1988/03/21 DATE REVISED: 1993/03/31 CODED BY: GSA REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW112

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5541825 EASTING: 315867

REPORT: RGEN0100

493

NAME(S): BALD RANGE, BALD RANGE CREEK, BLUE

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 00 01 N LONGITUDE: 119 34 10 W ELEVATION: 970 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the Blue claim.

COMMODITIES: Marble Dimension Stone **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Triassic

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Metamorphic Stratiform

Sedimentary Industrial Min.

TYPF: R04 Dimension stone - marble R09 Limestone

SHAPE: Tabular DIMENSION: 1300 x STRIKE/DIP: TREND/PLUNGE: 250 Metres

COMMENTS: Age of limestone recrystallization is probably Jurassic. Surface dimensions of the southern marble unit.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** Paleozoic-Mesozoic Harper Ranch Unnamed/Unknown Formation

LITHOLOGY: Marble

Limestone

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel GRADE: Greenschist METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

COMMENTS: The Harper Ranch is regionally metamorphosed to lower greenschist.

INVENTORY

ORE ZONE: SOUTH PART REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1989

> QUANTITY: 198800 Tonnes

COMMODITY **GRADE** 100.0000 Per cent Marble

COMMENTS: Quantity derived from a volume of 2.6 million cubic feet.

REFERENCE: Industrial Mineral File - Standord, M.R., 1989, page 1.

CAPSULE GEOLOGY

The Bald Range deposit is located 16 kilometres north-northwest of Kelowna, west of Bald Range Creek.

In this area, Devonian to Triassic Harper Ranch Group sedimentary and volcanic rocks have been intruded by Middle Jurassic granitic rocks. Outliers of Eocene Penticton Group volcanic and

sedimentary rocks overlie the older units.

The Harper Ranch Group includes two marble units potentially suitable for industrial use. The southern unit comprises fine to medium-grained, recrystallized, grey, black, orange and bronze coloured marble. This unit is up to 250 metres thick dips steeply and extends along strike for at least 1300 metres. The more irregular northern unit comprises mainly white marble. The average calcite grade is reported at 93 per cent and the rock is reported to polish well and to display a high brightness. The southern unit has

been estimated to contain about 198,800 tonnes of high quality marble (Industrial Mineral File - Stanford, M. R., 1989).

The unit was explored for marble in 1982-84 by D. Sandberg. After initially exploring for gold, Banbury Gold Mines Ltd. continued the marble exploration through geological mapping and drilling during 1988-89.

MINFILE NUMBER: 082LSW112

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1989/08/23 CODED BY: PSF FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW113

NATIONAL MINERAL INVENTORY:

NAME(S): **OYAMA SHALE** 

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082L03W BC MAP:

Open Pit MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

495

LATITUDE: 50 05 59 N LONGITUDE: 119 23 52 W ELEVATION: 460 Metres NORTHING: 5552472 EASTING: 328523

LOCATION ACCURACY: Within 500M COMMENTS: Pit in a talus slope.

> COMMODITIES: Granite Dimension Stone **Building Stone**

**MINERALS** 

SIGNIFICANT: Orthoclase MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Massive
CLASSIFICATION: Magmatic Industric
TYPE: R03 Dimension stone - granite Industrial Min.

COMMENTS: The rock is highly fractured.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Coryell Intrusions STRATIGRAPHIC AGE GROUP Eocene **FORMATION** 

LITHOLOGY: Orthoclase Granite

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks

CAPSULE GEOLOGY

The Oyama Shale showing is located 20 kilometres southwest of

Vernon, west of the north end of Wood Lake.

In this area, Devonian to Triassic sediments of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. These are intruded by granite and hypabyssal equivalents of the Eocene Coryell Intrusions. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

Intensely fractured Coryell granite in a talus slide has been quarried for industrial use (Personal Communication - Discovery

Consultants, 1993).

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EMPR RGS 1976

GSC MAP 46-7, 48-4A, 1712A GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 DATE REVISED: 1993/07/16 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW114

NATIONAL MINERAL INVENTORY:

NAME(S): **REEF** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L03W BC MAP: LATITUDE: 50 03 50 N

NORTHING: 5548376 EASTING: 331933

PAGE:

REPORT: RGEN0100

496

LONGITUDE: 119 20 54 W ELEVATION: 990 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole at the base of plateau basalts (Assessment Report 7700).

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Agate MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Exhalative
SHAPE: Tabular Industrial Min. Volcanogenic

DIMENSION: 600 x 300 x 5 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Dimensions of the extent of the host rock.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Penticton Eocene Unnamed/Unknown Formation

LITHOLOGY: Chalcedony Sinter

Pyroclastic Rhyolite

HOSTROCK COMMENTS: Hostrock is the informally named Trepanier Rhyolite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Plutonic Rocks

**CAPSULE GEOLOGY** 

The Reef showing is located 23 kilometres south-southwest of Vernon between Wood Lake and Clark Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks. Middle Jurassic granitic plutons intrude Shuswap Terrane metamorphic rocks. Eocene Penticton Group and Miocene Chilcotin Group volcanic and sedimentary rocks cap areas of older rock.

In the Penticton Group, an agate-rhyolite bed contains abundant yellow-orange chalcedonic carnelian(?) agate within pyroclastic flow rocks, possibly representing a sinter. The bed is about 5 metres thick and extends over an area of at least 600 by 300 metres. The bed, part of the informally named Trepanier Rhyolite, unconformably unralies managements and grandierite, and underlies posticion Crown overlies monzonite and granodiorite, and underlies Penticton Group felsic tuffs and Miocene fluvial sediments and basalt flows. In 1977-79, Union Oil Company explored the Miocene sediments for

uranium. Geological mapping, hydrogeochemical, radiometric, airborne magnetometer and drill programs were conducted.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6631, 6944, \*7700

EMPR EXPL 1979-98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Falconbridge File

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW115

NATIONAL MINERAL INVENTORY: 082L3 Fsp1

PAGE:

NORTHING: 5566309 EASTING: 322304

REPORT: RGEN0100

497

NAME(S): **GREEN GABLES WEST**, WHITEMAN'S CREEK FLUORITE, BURSARY MOUNTAIN FLUORITE, VIEW GROUP, LAKEVIEW, FLUORITE,

SPARITE, SPAR, AH. JAC, QUÁRTZ RÉEF, REEF,

WHITE, HILLTOP

MINING DIVISION: Vernon

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 13 20 N LONGITUDE: 119 29 28 W

ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 14308).

COMMODITIES: Fluorite

**MINERALS** 

SIGNIFICANT: Fluorite ASSOCIATED: Quartz

MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Stockwork Vein

CLASSIFICATION: Hydrothermal Epigenetic Industrial Min.

Barite-fluorite veins TYPE: I11

SHAPE: Irregular

MODIFIER: Fractured

DIMENSION: 600 x 300 Metres STRIKE/DIP: 020/50E TREND/PLUNGE:

COMMENTS: Attitude of fracture zone. Surface dimensions of mineralized area.

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Unnamed/Unknown Informal

Middle Jurassic

LITHOLOGY: Quartz Monzonite

rocks.

HOSTROCK COMMENTS: Informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

CAPSULE GEOLOGY

The Green Gables West showing is located 16 kilometres westsouthwest of Vernon, between lower Whiteman Creek and Okanagan Lake. In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Feldspar porphyry dikes, of possible Tertiary age, cut the granitic rocks. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary

Altered and brecciated Middle Jurassic quartz monzonite hosts fluorite mineralization. Within a 600 by 300 metre area, fluorite occurs as: lenses and irregular masses in irregular drusy quartz veins, thin veins and films on fracture planes. The main showing is a fracture zone which dips 50 degrees east and strikes 020 degrees.

The fluorite fracture fillings and veins generally range from 1 to 10 centimetres thick. The fluorite is coarsely crystalline with grains up to 2 to 3 centimetres across. It is usually pale green, with occasional white, yellow or purple varieties reported. Fluorite crystals are occasionally coated with silica.

In 1966, Canex Aerial Exploration Ltd. carried out trenching and drilling. In 1968, Kelver Mines Ltd. conducted geological mapping, trenching and drilling and in 1971 Cerro Mining Company of Canada Ltd. conducted geological mapping and a hydrogeochemical survey. In

the 1980s the area was explored for gold mineralization.

**BIBLIOGRAPHY** 

EMPR AR 1947-212; 1954-65; \*1966-265,266; \*1967-303,304,305;

1968-299,300

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

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### **BIBLIOGRAPHY**

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW116

NATIONAL MINERAL INVENTORY:

NAME(S): **DAVE**, DAVE 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L05E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

499

LATITUDE: 50 18 11 N NORTHING: 5575387 EASTING: 319875

LONGITUDE: 119 31 46 W ELEVATION: 880 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing adjacent to a pit (Assessment Report 19152).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz

ALTERATION: Hematite I imonite ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
SHAPE: Tabular

Hydrothermal

MODIFIER: Fractured

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Harper Ranch **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Paleozoic-Mesozoic Undefined Formation

LITHOLOGY: Tuff

Volcanic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional

GRADE: Greenschist **RELATIONSHIP:** 

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1988 Assay/analysis

**GRADE COMMODITY** 

Grams per tonne Cold 5.7300

COMMENTS: A 6.5-metre chip sample across vuggy vein.

REFERENCE: Assessment Report 19152.

CAPSULE GEOLOGY

The Dave showing is located 18 kilometres west-northwest of

Vernon, north of Naswhito Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Penticton Group volcanic and sedimentary rocks overlie the older units.

A quartz vein in Harper Ranch Group tuffs and volcanic rocks hosts gold mineralization. The vuggy vein is hematite and limonite stained. A 6.5-metre chip sample analysed 5.73 grams per tonne gold

(5730 parts per billion) (Assessment Report 19152). In 1988-89, Geotronic Surveys Ltd. carried out geological

mapping.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*19152

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363;

2000, pp. 191-222 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30

MINFILE NUMBER: 082LSW116

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

CODED BY: DISC REVISED BY: DISC DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW117

NATIONAL MINERAL INVENTORY:

NAME(S): **BOND**, BOND 1

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L04E BC MAP: LATITUDE: 50 00 39 N LONGITUDE: 119 33 50 W ELEVATION: 1050 Metres

NORTHING: 5542985 EASTING: 316305

PAGE:

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501

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 12148).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz Pyrite

ALTERATION: Limonite

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
SHAPE: Tabular Hydrothermal

MODIFIER: Faulted

HOST ROCK

DOMINANT HOSTROCK: Plutonic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Paleozoic Chapperon Unnamed/Unknown Formation

Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: The plutonic rocks are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1985 Assav/analysis

SAMPLE TYPE: Grab <u>GRA</u>DE

COMMODITY Silver 7.0000 Grams per tonne Gold 12,0000 Grams per tonne

COMMENTS: Samples from the 0.2 metre wide vein.

REFERENCE: Assessment Report 12148.

**CAPSULE GEOLOGY** 

The Bond showing is located 15 kilometres north-northwest of Kelowna, west of Bald Range Creek.

This area is underlain by the Permian and older Chapperon Group sedimentary and volcanic rocks intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Outliers of Eocene Penticton Group volcanic and sedimentary rocks overlie the older units.

Quartz veins in a small quartz diorite plug host gold mineralization. Two narrow quartz veins carry fine-grained pyrite. The veins have a general east-west strike with moderate southerly dips. The surface outcrops are limonitic and leached of gold and silver values. Samples from the 0.2 metre wide vein assayed 12 grams per tonne gold and 7 grams per tonne silver and samples from the 0.5 metre vein assayed 4 grams per tonne gold (Assessment Report 12148).

N. Lenard carried out geological mapping in 1983, conducted prospecting and sampling in 1985 and further geological mapping in

1987

**BIBLIOGRAPHY** 

EMPR ASS RPT \*12148, 14511, 16027 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G

MINFILE MASTER REPORT

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW118

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Nicola

UTM ZONE: 11 (NAD 83)

NORTHING: 5544758

EASTING: 297164

PAGE:

REPORT: RGEN0100

503

NAME(S): **JACK**, JACK 2, NEWMAN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04W BC MAP:

LATITUDE: 50 01 14 N LONGITUDE: 119 49 54 W ELEVATION: 1670 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Gold-bearing quartz vein (Assessment Report 19579).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Hydrothermal

Harper Ranch Paleozoic-Mesozoic Unnamed/Unknown Formation

LITHOLOGY: Agglomerate

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel RELATIONSHIP:

METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: The Harper Ranch is regionally metamorphosed to lower greenschist.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1989

SAMPLE TYPE: Grab COMMODITY

**GRADE** Gold Grams per tonne

REFERENCE: Assessment Report 19579.

**CAPSULE GEOLOGY** 

The Jack showing is located 28 kilometres west-northwest of

Kelowna, south of Mount Eileen.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group and the Paleozoic Chapperon Group. These rocks have been intruded by Jurassic granitic rocks of the informally named Terrace Creek These rocks have been intruded by Middle batholith and ultramafic rocks. Volcanic and sedimentary outliers,

of the Eocene Penticton Group, overlie the older units.

A quartz vein (Newman zone) in Harper Ranch Group agglomerate hosts gold mineralization. A sample analysed 2.79 grams per tonne

gold (2790 parts per billion) (Assessment Report 19579).

In 1989 and 1990, Rea Gold Corporation carried out geological

mapping, prospecting and soil geochemistry.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6791, \*19579, 20918

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363; 2000, pp. 191-222

EMPR MAP 5207G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

MINFILE NUMBER: 082LSW118

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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WWW http://www.infomine.com/

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DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW119

NAME(S): FLAP, FLAP 1

LATITUDE: 50 01 11 N

COMMENTS: Center of mineralized area (Assessment Report 18724).

COMMODITIES: Gold Silver

SIGNIFICANT: Unknown COMMENTS: Rare molybdenite.

ASSOCIATED: Quartz C
ALTERATION: Chlorite
COMMENTS: Possibly epidote. Calcite Pyrite

ALTERATION TYPE: Chloritic

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Stockwork

CLASSIFICATION: Epigenetic
DIMENSION: 370 x 240 x 120 Hydrothermal Metres

STRIKE/DIP: 045/70S

COMMENTS: Dimension and attitude of the stockwork zone.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u>

Paleozoic-Mesozoic Middle Jurassic

Harper Ranch

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

TREND/PLUNGE:

LITHOLOGY: Agglomerate

Tūff

Porphyritic Quartz Feldspar Monzonite

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Thompson Plateau

RELATIONSHIP: Pre-mineralization

GRADE: Greenschist

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineraliz COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YFAR: 1988

SAMPLE TYPE: Drill Core

COMMODITY

Grams per tonne

COMMENTS: The grade is from a 5.5-metre drill intersection.

REFERENCE: Press Release - Rea Gold Corporation, 1988.

CAPSULE GEOLOGY

The Flap showing is located 27 kilometres northwest of Kelowna,

east of Mount Eileen.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group and the Paleozoic Chapperon Group. These rocks have been intruded by Middle Paleozoic Chapperon Group. These rocks have been intruded by Jurassic granitic rocks of the informally named Terrace Creek Outliers of Eocene Penticton Group

batholith and ultramafic rocks. Outliers of Eocene Pen volcanic and sedimentary rocks overlie the older units.

Harper Ranch Group agglomerate and tuff hosts a quartz  $\pm$  calcite  $\pm$  pyrite stockwork zone which carries erratic gold mineralization. Within the stockwork veins are up to 20 centimetres thick and average about 1-2 centimetres thick. The stockwork zone, about 120 metres thick, dips 70 degrees to the southeast and is at least 240 metres wide and 370 metres long. Minor chlorite and possible epidote alteration are associated with the veining. Rare molybdenite was noted in drillcore samples. A quartz-feldspar monzonitic porphyry of

MINFILE NUMBER: 082LSW119

PAGE: REPORT: RGEN0100

505

MINING DIVISION: Nicola

UTM ZONE: 11 (NAD 83)

NORTHING: 5544623

EASTING: 298294

NATIONAL MINERAL INVENTORY:

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04W BC MAP:

LONGITUDE: 119 48 57 W ELEVATION: 1720 Metres

LOCATION ACCURACY: Within 500M

**MINERALS** 

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Jurassic or Cenozoic age is spatially related to the area of the quartz stockwork. Gold and silver values are erratic with surface sampling values up to 26 grams per tonne gold and 55 grams per tonne silver. Drilling encountered values up to 55 grams per tonne gold and 270 grams per tonne silver over 0.9 metre. Grades of 2.4 grams per tonne gold over 5.5 metres are reported (Press Release - Rea Gold

Corporation, 1988).
In 1988-89, Rea Gold Corporation carried out geological mapping, soil geochemistry and drilling.

The property is held by Verdstone Gold Corporation and Molycore

Gold Corporation.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*18723, \*18724, 20918 (sheet 4) EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 5207G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 EMPR RGS 1970
GSC MEM 296
GSC OF 637, 736, 2167
GSC P 89-1E pp. 51-60
N MINER Jan. 9, 1989, p. 25
PR REL Rea Gold Corporation, 1988 WWW http://www.verdstonegroup.com

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Disseminated

MINFILE NUMBER: 082LSW120

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5570375 EASTING: 347605

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

507

NAME(S): **LAVINGTON**, LAV

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 15 57 N LONGITUDE: 119 08 18 W ELEVATION: 1270 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole 90-7 (Assessment Report 20334).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz

Pyrite Chlorite ALTERATION: Tourmaline Mariposite Sericite ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic Sericitic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Unknown SHAPE: Tabular

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Triassic-Jurassic Nicola

LITHOLOGY: Pyritic Sericitic Schist

Graphitic Argillite Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel PHYSIOGRAPHIC AREA: Shuswap Highland

**FORMATION** 

Undefined Formation

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/and SAMPLE TYPE: Drill Core Assay/analysis YEAR: 1990

Concordant

COMMODITY **GRADE** 

0.5000 Grams per tonne Gold

COMMENTS: From drillhole 90-7 across a 34 metre section.

REFERENCE: Assessment Report 20334.

**CAPSULE GEOLOGY** 

The Lavington showing is located 10 kilometres east of Vernon,

east of Vernon Hill.

In this area, east of the Okanagan Valley fault, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These units are faulted over gneissic rocks of unknown age and metasedimentary rocks of the Proterozoic Silver Creek Formation. Middle Jurassic granitic rocks cut all of the above rocks. Outliers of Eocene Kamloops Group

volcanic and sedimentary rocks cap the older units.

A 180-metre thick pyritic and sericitic schist carries low grade but persistent gold mineralization. Disseminated pyrite is accompanied by quartz, chlorite, tourmaline and mariposite. The schist is probably a felsic metavolcanic unit within the Nicola The unit is gradational to the southwest with graphitic argillite and to the northeast with a quartz-feldspar porphyry. schist contains gold values throughout and a 34-metre section The analysed 0.5 gram per tonne gold (Assessment Report 20334).

In 1988-90, BP Resources Canada Ltd. carried out soil geo-

chemistry, geological mapping and drilling.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 19126, 19578, \*20334 EMPR EXPL 1989-22,50; 1990-55 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082LSW121

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5558681 EASTING: 325783

PAGE:

REPORT: RGEN0100

509

NAME(S): PINK

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082L03W BC MAP:

LATITUDE: 50 09 17 N LONGITUDE: 119 26 20 W ELEVATION: 730 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the Pink claim.

COMMODITIES: Granite Dimension Stone **Building Stone** 

**MINERALS** 

SIGNIFICANT: Orthoclase MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Magmatic Industrial Min.

TYPE: R03 Dimension stone - granite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Focene Coryell Intrusions

LITHOLOGY: Orthoclase Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

CAPSULE GEOLOGY

The Pink deposit is located 17 kilometres southwest of Vernon,

on the steep slopes east of Okanagan Lake.

In this area, Devonian to Triassic sediments of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks, which are intruded in turn by granite and hypabyssal equivalents of the Eocene Coryell Intrusions. Patches of Eocene Penticton Group volcanic rocks

overlie the older rocks.

Eocene orthoclase granite has been quarried for industrial use.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1982, EMPR MAP 7216G, 8512G pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MAP \*46-7, 48-4A, 1712A

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW122

NATIONAL MINERAL INVENTORY:

NAME(S): PINAUS WEST

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L05E BC MAP:

MINING DIVISION: Kamloops Vernon UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

510

NORTHING: 5588860 EASTING: 314704

LATITUDE: 50 25 21 N LONGITUDE: 119 36 31 W ELEVATION: 1100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Middle point between 2 showings 500 metres apart (Geological Survey of

Canada, Miscellaneous Report 8, page 67).

COMMODITIES: Agate Gemstones

MINERALS
SIGNIFICANT: Jasper
MINERALIZATION AGE: Tertiary Agate

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Epigenetic Industrial Min.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

<u>GRO</u>UP STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Focene

Kamloops

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Overlap Assemblage
METAMORPHIC TYPE: Regional Harper Ranch

RELATIONSHIP: Syn-mineralization GRADE: Zeolite

CAPSULE GEOLOGY

The Pinaus West showing is located 9 kilometres south-southwest

of Falkland, south of Pinaus Lake.

Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older

units.

Kamloops Group basalt flows host jasper and agate. The jasper varies from brown to black and includes yellow and green shades.

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GSC MEM 296

GSC MISC RPT \*8, p. 65, 67 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW123

NATIONAL MINERAL INVENTORY:

NAME(S): **KEYSTONE-2**, KEYSTONE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

511

LATITUDE: 50 18 45 N

NORTHING: 5575899 EASTING: 336502

LONGITUDE: 119 17 47 W ELEVATION: 620 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing 430 metres northeast of Keystone 1 (082LSW021) (Geological Survey of Canada, Summary Report, 1931A, page 83).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Nicola **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel

PHYSIOGRAPHIC AREA: Thompson Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies. GRADE: Greenschist

CAPSULE GEOLOGY

The Keystone-2 showing is located 6 kilometres north-northwest of Vernon, between Swan and Okanagan Lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein within argillaceous rocks of the Nicola Group hosts zinc mineralization. The 0.9-metre thick vein is heavily mineralized with pyrite and carries minor sphalerite.

**BIBLIOGRAPHY** 

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EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

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GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 146 GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 77, 83

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

CODED BY: REVISED BY: DISC

FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW124

NATIONAL MINERAL INVENTORY:

NAME(S): **KEYSTONE-3**, KEYSTONE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

512

LATITUDE: 50 18 48 N LONGITUDE: 119 17 41 W ELEVATION: 609 Metres NORTHING: 5575988 EASTING: 336623

LOCATION ACCURACY: Within 500M

COMMENTS: Inclined shaft, 150 metres northeast of Keystone-2 (082LSW123)

(Geological Survey of Canada Summary Report 1931A, page 83).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena ASSOCIATED: Quartz MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic SHAPE: Tabular

Hydrothermal

DIMENSION:

STRIKE/DIP: 035/30E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP** 

STRATIGRAPHIC AGE Triassic-Jurassic Nicola **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Quesnel

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: The Nicola is regionally metamorphosed to lower greenschist facies.

CAPSULE GEOLOGY

The Keystone-3 showing is located 6 kilometres north-northwest

of Vernon, between Swan and Okanagan Lakes.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Penticton Group volcanic rocks overlie the older rocks.

A quartz vein within argillaceous rocks of the Nicola Group hosts lead mineralization. The vein is up to 0.9 metre thick and carries minor pyrite and galena. The vein strikes 035 degrees and dips 30 degrees east.

By 1931, an open cut and a short inclined shaft had been

completed.

RIRI IOGRAPHY

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GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 146 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 77, 83

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

CODED BY: DISC REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW125

NATIONAL MINERAL INVENTORY:

NAME(S): KLINKER, OKANAGAN OPAL, KLINKER OPAL

STATUS: Developed Prospect REGIONS: British Columbia

Open Pit

MINING DIVISION: Vernon

NTS MAP: 082L05E BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 50 21 31 N NORTHING: 5581648 EASTING: 317616

PAGE:

REPORT: RGEN0100

513

LONGITUDE: 119 33 51 W ELEVATION: 1460 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing located 23 kilometres west-northwest of Vernon, north of McGregor Creek (Statement of Work on Klinker #1 & #2 claims, June 29,

1992).

COMMODITIES: Opal

Gemstones

Agate

**MINERALS** 

SIGNIFICANT: Opal Agate

ASSOCIATED: Quartz Zeolite Stilbite Jarosite

Celadonite Clinoptilolite Heulandite Bentonite

COMMENTS: Opal and agate occur as vesicles and fracture fillings over an area of

200 by 100 metres.

ALTERATION: Zeolité ALTERATION TYPE: Zeolitic MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Vein Disseminated Podiform Stratabound

CLASSIFICATION: Epigenetic TYPE: Q11 Vo Industrial Min.

Volcanic-hosted opal

DIMENSION: 200 x 100 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Eocene Kamloops **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Volcanic Breccia

Lahar Lapilli Tuff Andesite Basalt

HOSTROCK COMMENTS:

This location has been mapped as being underlain by Eocene Penticton

Group rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization

GRADF: Zeolite

CAPSULE GEOLOGY

The Klinker showing is located  $23\ \mathrm{kilometres}\ \mathrm{west-northwest}$  of Vernon, north of McGregor Creek.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group and Penticton Group volcanic and sedimentary rocks overlie the older units.

The Klinker property covers several concentrations of precious opal developed in the basal 100 metres of the Kamloops Group. The  $\,$ hostrock is a volcanic breccia-lahar complex composed of angular to rounded clasts of andesite and basalt ranging from 0.2 to 0.6 metre in diameter in a lapilli tuff matrix. In the lahar, the tuff has bedding which swirls around the clasts. Lapilli tuff lenses up to 5 metres thick develop locally and indicate that the volcanic succession dips 20 to 30 degrees to the west. Thin andesite or basalt flows and intrusions up to 4 metres thick are scattered throughout. On McGregor Creek Forestry Access Road, about 500 metres east of the discovery pit, outcrops of grey-green meta-andesite flows and lapilli tuffs of probable Late Paleozoic age form the basement which dips gently westward and underlies the valley bottom of Ewer Creek north of the property.

On the property, precious opal, agate and common opal fill fractures in the Eocene rocks and permeate podiform rock masses which

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

are up to 0.5 metre in diameter in the lahars. The rock masses are smaller in the lapilli tuffs and absent in the flows or intrusions. Precious opal-filled fractures preferentially develop in sets with the following three preferred strikes: 025 +/- 10 degrees, 070 +/- 10 degrees and 330 +/- 15 degrees; all sets have steep dips. The podiform rock masses commonly form beside or across opal-filled fractures. In the masses, precious opal fills voids developed during the formation of the hostrock, and later openings apparently formed by local dissolution of the host. Here and there the precious opal, agate and common opal have layering which is subhorizontal even in subvertically oriented fracture fillings. The presence of this subhorizontal layering in these materials, which is not subparallel to the orientation of the gently west-dipping lapilli tuff, implies that the precious opal, agate and common opal precipitated after the beds were tilted.

Of the six shallow pits exposing the precious opal on the Klinker property, the discovery pit is the largest at 2100 square metres, and together with the smaller Bluebird pit, probably the richest because of subequally developed podiform masses and fracture fillings. A right-lateral strike-slip fault dips 80 degrees northwest (slickensides trend/plunge 195/25S), passes along the eastern side of the pit, and offsets the lahars an indeterminate amount. In the other shallow pits, the Tripod, Red Rock and the Caramel and its extension, podiform masses in the lahars developed at the expense of fracture fillings. A lapilli tuff underlies the eastern side of the Caramel pit. Outside the pit areas, the primary openings of the rock are either mostly empty or less commonly filled with agate, common opal, chabazite - a highly hydrated zeolite, and other unidentified zeolites (P. Read, personal communication, 1995).

The opal is white, orange or red, with some fire-green and fire-orange opal reported. Most of the precious opal is described as having a light orange base, is clear and full of colour. At surface the opal is hydrophane, but becomes more solid at shallow depths. The banded agate has grey, white and clear bands. The opal was discovered in 1991.

Besides precious opal, common opal and agate at the Klinker deposit, there are other fracture-fill minerals which include non-precious facet-grade opal, quartz, celadonite, amorphous manganese oxides, clinoptilolite, heulandite, stilbite, jarosite, clays and rarely, clacite. Non-precious, facet-grade opal is typically orange and honey coloured, similar to Mexican "fire opal". Common opals occur as transparent, translucent and opaque types in white, honey, brown, amber, orange and grey colours. Quartz can occur as small, inward facing, terminated crystals within vugs. X-ray diffraction analysis notes that kutnahorite and saponite co-exist with opal. Opal from the Klinker property is classified as opal-CT, using Jones and Segnit's (1971) grade classification. Most stones from deposits with precious and common opal are classified as opal-A (Frye, 1981).

Okanagan Opal Inc. conducted test pitting and some rockhound sales transpired (Information Circular 1996-1, page 20).

There was enough volume of commercial grade opal excavated during the 1994 season's bulk sampling program to provide the raw material necessary to start a small scale gemstone cutting and retail sales business. Sorting, grading and cutting of finished gemstones began on a limited scale in November 1994 and continued through to late December 1994. This program re-commenced in January 1, 1995 and is scheduled to produce sufficient quality and quantity of finished 'opal product' to commence a local retail sales operation by May 1, 1995 (Assessment Report 24606).

Small scale test mining and market was ongoing in 1996.
Okanagan took a 316.5-tonne bulk sample of opal-bearing material from test pits. The company has set up a workshop and retail outlet at Vernon where opal jewelery and specimens are produced and sold.

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 \*1997, pp. 321-327; 1998-1, p. 24

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EMPR OF 1989-5; 1990-30

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 "We truly can be thankful" by R.W. Yorke-Hardy, Vol. 3 Number 6, 
1991; \*Property description, P. Read, 1995; Gem & Mineral 
Federation of Canada Newsletter, Spring 1999, Vol.18, No.2, 
pp. 10-12; Okanagan Opal Inc. Website (Feb. 1999): Company 
History & Information, 5 p.; Yorke-Hardy, Bob (Spring 2000)

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

Okanagan Opal - Successful development at the Klinker Opal Deposit, Volume 1, Number 2, 3 pages; Yorke-Hardy, Bob (Winter/Spring 1999): Precious Opals in Canada, Volume 3, Number 1, 3 pages)

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CIM '97 Vancouver Program, April 27-30, 1997, p. 61
WWW http://www.opalscanada.com; http://www.gemnews.net; http://www.canadianrockhound.com
Lapidary Journal \*February 1993, pp. 63-66

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N DATE REVISED: 1997/03/13 REVISED BY: GJP FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW126

NATIONAL MINERAL INVENTORY:

NAME(S): SARAH, MORNING GLORY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

516

BC MAP: LATITUDE: 50 14 35 N

NORTHING: 5568434 EASTING: 328164

LONGITUDE: 119 24 36 W ELEVATION: 460 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Minister of Mines Annual Report, 1897, page 608).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz Pyrite MINERALIZATION AGE: Mesozoic-Cenozóic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

SHAPE: Tabular

Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Harper Ranch

**FORMATION** 

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sediment/Sedimentary

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Sarah showing is located 11 kilometres west-southwest of

Vernon, east of Okanagan Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Patches of Eocene Kamloops Group volcanic rocks overlie the older rocks.

A quartz vein in sedimentary(?) rocks of the Harper Ranch Group hosts gold mineralization. The narrow vein, about 0.3 metre thick, carries pyrite and spectacular but spotty free gold.

A 9-metre tunnel had been driven by 1897.

**BIBLIOGRAPHY** 

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DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31

CODED BY: DISC REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW127

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5566046 EASTING: 313706

REPORT: RGEN0100

517

NAME(S): WHITEMAN, WHIT, PAT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 13 02 N LONGITUDE: 119 36 41 W ELEVATION: 1082 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 6572).

COMMODITIES: Copper

Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite Molybdenite

ALTERATION: Limonite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Tertiary

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Eocene Corvell Intrusions

LITHOLOGY: Rhyodacite Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

CAPSULE GEOLOGY

The Whiteman showing is located 25 kilometres west-southwest of

Vernon, on the steep south side of Whiteman Creek valley.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. An Eocene Coryell rhyodacite porphyry to syenite, high-level plug intrudes and is in fault contact with the Middle Jurassic intrusions. Eocene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks.

An unaltered, pyritic and limonitic rhyodacite porphyry hosts copper and molybdenum mineralization. Chalcopyrite and molybdenite are reported.

During 1975-77, Canadian Occidental Petroleum Ltd. carried out uranium exploration in the area. In 1978-79, Kennco Explorations Ltd. conducted geological mapping and soil geochemistry surveys.

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EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW128

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

518

NAME(S): LOCH, LOCH 5, WHIT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L04E

UTM ZONE: 11 (NAD 83) BC MAP: NORTHING: 5564863 EASTING: 315728

LATITUDE: 50 12 26 N LONGITUDE: 119 34 57 W ELEVATION: 1160 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Centre of 3 showings (Assessment Report 7811).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz Pyrite

ALTERATION: Sericite Epidote Chlorite Kaolin

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Jurassic Chloritic Argillic **Epidote** 

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Porphyry Disseminated

SHAPE: Irregular

MODIFIER: Fractured DIMENSION: 400 x 200 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Surface area of mineralization.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Monzonite

HOSTROCK COMMENTS: Plutonic rocks are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

**CAPSULE GEOLOGY** 

The Loch showing is located 23 kilometres west-southwest of Vernon, on the steep south side of Whiteman Creek Valley.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic

granitic rocks of the informally named Terrace Creek batholith. Eocene Coryell quartz latite porphyry to syenite, high-level plug intrudes and is in fault contact with the Middle Jurassic intrusions. Eocene Penticton Group volcanic rocks overlie the igneous and

sedimentary rocks.

Altered Middle Jurassic quartz monzonite hosts molybdenum mineralization. Molybdenite occurs with pyrite in fractures and

quartz veinlets (1 to 5 centimetres) in a 400 by 200 metre area. Alteration minerals include sericite, chlorite, kaolin and epidote. In 1979-80, Cominco Ltd. carried out geological mapping and soil

geochemistry.

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EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW129

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Nicola

UTM ZONE: 11 (NAD 83)

NORTHING: 5565247 EASTING: 286448

PAGE:

REPORT: RGEN0100

519

NAME(S): **CHAPPERON** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04W BC MAP:

LATITUDE: 50 12 03 N LONGITUDE: 119 59 33 W ELEVATION: 1040 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada, Paper 72-53, page 22).

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Silica Agate COMMENTS: Petrified wood (silicified) with agate is reported.

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Tertiary

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Replacement

Epigenetic Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Kamloops Undefined Formation

LITHOLOGY: Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau Harper Ranch

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Zeolite

CAPSULE GEOLOGY

The Chapperon showing is located 52 kilometres west of Vernon, south of Chapperon Creek.

In this area, Devonian to Triassic volcanic and sedimentary rocks of the Harper Ranch Group and the Permian and older Chapperon Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group sediments host petrified (silicified) wood and

agate.

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GSC P \*72-53, p. 22; 89-1E pp. 51-60

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW130

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5568105 EASTING: 308860

REPORT: RGEN0100

520

 $\begin{array}{ll} \text{NAME(S):} & \underline{\textbf{GOLD STAR}}, \, \text{SUNDAY}, \, \text{BORDER}, \\ \hline \text{CENTRAL} & \end{array}$ 

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 14 03 N LONGITUDE: 119 40 49 W

ELEVATION: 1235 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole 165-8 (Assessment Report 19797).

COMMODITIES: Gold Silver

SIGNIFICANT: Unknown ASSOCIATED: Pyrite MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Epithermal

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE Eocene GROUP Penticton IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Overlap Assemblage PHYSIOGRAPHIC AREA: Thompson Plateau

Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Zeolite

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1987

SAMPLE TYPE: Drill Core COMMODITY **GRADE** 

Silver 16,0000 Grams per tonne 2.1500 Grams per tonne Gold

COMMENTS: Sample over 3.0 metres. REFERENCE: Assessment Report 19797.

CAPSULE GEOLOGY

The Gold Star showing is located 29 kilometres west of Vernon, on the steep north slope of Whiteman Creek Valley.

The area is underlain by Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group which have been intruded by Middle Jurassic granitic rocks. Eocene Penticton Group and Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude

these rocks.

Penticton Group pyritic tuffaceous rocks host gold mineralization. Samples from drilling analysed 2.15 grams per tonne gold and 16 grams per tonne silver over 3.0 metres (Assessment Report

In 1984-87, Brican Resources Ltd. carried out geological mapping, soil geochemistry, VLF-EM surveys, trenching and drilling.

**BIBLIOGRAPHY** 

EMPR ASS RPT 12854, 15394, \*19797

EMPR EXPL 1983-101,102; 1986-C99; 1987-A29; 1988-A21,43

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR INF CIRC 1988-1, p. 26, 67; 1989-1, p. 26

EMPR MAP 37, 5207G, 7216G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966; Statement of Material

Facts, Sept. 1988, Brican??) EMPR RGS 1976

GSC MEM 296

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 GCNL #182, #212, 1987 V STOCKWATCH Sept. 17, Nov. 4, 1987 WWW http://www.infomine.com/

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW131

NATIONAL MINERAL INVENTORY:

NAME(S): BRETT NEW, BRETT 1, NEW DISCOVERY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 13 52 N LONGITUDE: 119 39 30 W ELEVATION: 1220 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 19482).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Silica Pyrite ALTERATION: Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Epithermal

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Penticton Eocene

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5567709 EASTING: 310412

REPORT: RGEN0100

522

LITHOLOGY: Trachyandesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional

Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

**RELATIONSHIP:** GRADE: Zeolite

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

YEAR: 1989

COMMODITY **GRADE** 

Grams per tonne Gold

COMMENTS: From drillhole 88-74, 1.49 metre intersection.

REFERENCE: Property File - Huntington Resources Inc., July 21, 1989.

CAPSULE GEOLOGY

The Brett New showing is located 28 kilometres west of Vernon, on the steep north slope of Whiteman Creek Valley.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Eocene Penticton Group and Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell

rhyodacite porphyry to syenite plugs and dikes intrude these rocks.

The New Discovery zone is 400 metres east of the Main Shear Zone (082LSW110) on the steep eastern bank of Brett Creek. Penticton Group trachyandesite flows host gold mineralization. A bleached, silicified and pyritized zone hosts disseminated native gold. A 1.49 metre intersection from drillhole 88-74 assayed 4.25 grams per tonne

gold (Property File - Huntington Resources Inc., Statement of Material Facts, July 21, 1989).

In 1984-86, Huntington Resources Ltd. carried out geological mapping and soil geochemistry. During 1987-89, Corona Corporation carried out additional exploration including drilling.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13469, \*13471, \*15564, \*19482

EMPR EXPL 1984-100,101; 1985-A39,62; 1986-A28,64; 1987-A29,67,71,

B15-22; 1988-A2,21,43

EMPR FIELDWORK 1987, pp. B15-22, 55-58; 1988, pp. 355-363

EMPR INF CIRC 1988-1, p. EMPR MAP 37, 5207G, 7216G 26 EMPR OF 1989-5, 1990-30

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (In 082LSW General - Claim Map, 1966; In 082LSW110 - \*Huntington Resources Inc., Statement of Material Facts, July 21, 1989)

EMPR RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 Placer Dome File

CODED BY: DISC REVISED BY: DISC DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 FIELD CHECK: N FIELD CHECK: N

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW132

NATIONAL MINERAL INVENTORY:

NAME(S): BRETT GOSSAN, BRETT 1

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E

BC MAP: LATITUDE: 50 14 12 N LONGITUDE: 119 39 07 W ELEVATION: 1360 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 19482).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Eocene

Pyrite Feldspar

Clav Oxidation

Limonite

Potassic

Argillic

**DEPOSIT** 

CHARACTER: Breccia
CLASSIFICATION: Epithermal

DIMENSION: 350 x 50

Stockwork

Disseminated

STRIKE/DIP: Metres COMMENTS: The zone strikes north and dips moderately westward. Dimensions are

length by thickness.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Eocene

**GROUP** Penticton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5568310 EASTING: 310890

REPORT: RGEN0100

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LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional

Plutonic Rocks **RELATIONSHIP:**  PHYSIOGRAPHIC AREA: Thompson Plateau

GRADE: Zeolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Grab

YEAR: 1989

COMMODITY Silver

<u>GR</u>ADE 9.9000

Grams per tonne

Gold

6.0000

Grams per tonne

COMMENTS: Highest values from surface sampling of the siliceous breccia. REFERENCE: Property File - Huntington Resources Inc., July, 1989.

**CAPSULE GEOLOGY** 

The Brett Gossan showing is located 28 kilometres west of Vernon, on the steep north slope of Whiteman Creek Valley.

In this area, Devonian to Triassic sedimentary and volcanic

rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Eccene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell

rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude these rocks. A large structurally controlled silicified zone in andesite of the Penticton Group hosts gold and silver mineralization. The 300-metre long by 50-metre thick zone strikes northerly and dips moderately westward. The zone lies just west of Middle Jurassic granitic rocks. Finely disseminated pyrite, oxidized to limonite, occurs in the silicified, feldspathized and clay altered zone. Surface sampling of siliceous breccia cut by a vuggy quartz vein stockwork assayed up to 6 grams per tonne gold and 9.9 grams per tonne silver, although the average grade is much lower (Property File - Huntington Resources Inc., Statement of Material Facts, July 21, 1989). 1989).

In 1984-86, Huntington Resources Ltd. carried out geological mapping and soil geochemistry. In 1987-89, Corona Corporation continued exploration including drilling.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*13469, \*13471, \*15564, \*19482

EMPR EXPL 1984-100,101; 1985-A39,62; 1986-A28,64; 1987-A29,67,71,
 B15-22; 1988-A2,21,43; 1989-50; 1990-17,55

EMPR FIELDWORK 1987, pp. B15-22, 55-58; 1988, pp. 355-363

EMPR MAP 37, 5207G, 7216G

EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966; In 082LSW110 \*Huntington Resources Inc., Statement of Material Facts, July 21,
 1989)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167

GSC P 89-1E pp. 51-60

Placer Dome File

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW133

NATIONAL MINERAL INVENTORY:

NAME(S): HUN, HUN 1, HUN 2

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03E

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 06 34 N

NORTHING: 5552928 EASTING: 349231

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LONGITUDE: 119 06 31 W ELEVATION: 1280 Metres

LOCATION ACCURACY: Within 5 KM COMMENTS: Showing (Assessment Report 11960).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz Pyrite

ALTERATION: Limonite

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Jurassic Nelson Intrusions

LITHOLOGY: Porphyritic Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Grams per tonne Gold 2.0000

COMMENTS: Sample from a quartz vein with oxidized pyrite.

REFERENCE: Assessment Report 11960.

**CAPSULE GEOLOGY** 

The Hun showing is located 21 kilometres southeast of Vernon,

west of Aberdeen Lake.

In this area, metamorphic rocks of the Shuswap Terrane are intruded by the Jurassic Nelson Intrusions. Eccene and Miccene Chilcotin Group volcanic and sedimentary rocks cap the older rocks. Porphyritic diorite hosts gold mineralization in zones of irregular quartz veins and quartz-filled fractures. A sample of a quartz vein with oxidized pyrite assayed 2 grams per tonne gold (Assessment Report 11960).

Prospecting was carried out in the mid-1980s.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11960, 12721, 14041, 15291 EMPR EXPL 1983-145; 1984-100; 1985-C88; 1986-C98

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167

GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW134

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

527

NAME(S): ASH 2, ASH, HUDSON BAY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L04W BC MAP:

UTM ZONE: 11 (NAD 83) NORTHING: 5563088 EASTING: 303121

LATITUDE: 50 11 14 N LONGITUDE: 119 45 29 W ELEVATION: 1660 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 9487).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Porphyry Igneous-contact

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Paleozoic-Mesozoic Harper Ranch Undefined Formation Unnamed/Unknown Informal

Middle Jurassic

LITHOLOGY: Argillite

K-Feldspar Porphyry Granite

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic. The plutonic rocks

are informally named the Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch Plutonic Rocks

RELATIONSHIP: Pre-mineralization METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Ash 2 showing is located 36 kilometres west-southwest of Vernon, west of Hudson Bay Lake.

In this area, Middle Jurassic porphyritic granite of the informally named Terrace Creek batholith intrudes sediments of the Devonian to Triassic Harper Ranch Group. Much of the surrounding area is underlain by Eocene volcanic, tuffaceous and sedimentary rocks of the Penticton Group and by Miocene Chilcotin Group olivine basalts.

Argillites of the Harper Ranch Group host low grade, molybdenite and pyrite mineralization. The, possibly Jurassic, mineralization is disseminated and fracture-controlled. Molybdenite mineralization also occurs in quartz veins in the adjoining K-feldspar porphyry

granite.
In 1980, Brenda Mines Ltd. carried out geological mapping and soil geochemistry.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9487

EMPR MAP 5207G, 7216G
EMPR OF 1989-5, 1990-30
EMPR PF (In 08210) 6

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 736, 2167 GSC P 89-1E pp. 51-60

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW135

NATIONAL MINERAL INVENTORY:

NAME(S): RIM ROCKS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L03E BC MAP:

LATITUDE: 50 11 27 N

LONGITUDE: 119 08 23 W ELEVATION: 1040 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Old workings (Assessment Report 6483).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Miocene

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer SHAPE: Tabular

DIMENSION: 4000 x 800 x 50 Metres STRIKE/DIP: COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

082LSW090 and 136.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

GROUP Chilcotin Miocene

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5562040 EASTING: 347267

REPORT: RGEN0100

528

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Overlap Assemblage

Plutonic Rocks

PHYSIOGRAPHIC AREA: Okanagan Highland

CAPSULE GEOLOGY

The Rim Rocks showing is located 12 kilometres southeast of

Vernon, west of Brewer Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks of the Shuswap Terrane. Middle Jurassic granite plutons intrude the older rocks. Eocene Penticton Group and Miocene volcanic and sedimentary rocks cap areas of older rock.

Basal, partly cemented, well-rounded, quartz pebble gravels, of Miocene fluvial deposits, host placer gold mineralization. The fluvial deposits extend over a 4000 by 800 by 50 metre area and include the King Edward (082LSW090) and Deer (082LSW136) showings.

The fluvial deposits unconformably overlie argillites of the

Harper Ranch Group and Middle Jurassic granitic rocks and pegmatite, and are generally overlain by Miocene basalts.

Two prospect shafts are located below the Miocene basalts. In 1977, Kerr Addison Mines Ltd. explored the Miocene sediments for

uranium. Geological mapping, hydrogeochemical and drill programs were conducted. In 1978-79, Banqwest Resources Ltd. carried out geological mapping, hydrogeochemical, soil geochemical, radiometric, and trenching programs.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6483

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW136

NATIONAL MINERAL INVENTORY:

NAME(S): DEER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L03E BC MAP:

LATITUDE: 50 11 27 N

LONGITUDE: 119 11 35 W ELEVATION: 990 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Workings (Assessment 6483).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Miocene

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer
SHAPE: Tabular
DIMENSION: 4000 x 800 x 50 Metres STRIKE/DIP:
COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

082LSW090 and 135.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

GROUP Chilcotin Miocene

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5562151 EASTING: 343460

REPORT: RGEN0100

529

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Okanagan Highland

Undivided Metamorphic Assembl.

CAPSULE GEOLOGY

The Deer showing is located 10 kilometres southeast of Vernon, west of Deer Creek.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks of the Shuswap Terrane. Middle Jurassic granite plutons intrude the older rocks. Eocene Penticton Group and Miocene Chilcotin Group volcanic and sedimentary rocks cap areas of older rock.

The basal, partly cemented, well-rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits extend over a 4000 by 800 by 50 metre area and include the Rim Rocks (082LSW135) and King Edward (082LSW090) showings.

The fluvial deposits, unconformably overlying metamorphic rocks and Middle Jurassic granitic rocks and pegmatite, are generally overlain by Miocene basalts.

Two exploration adits are located at the base of the Miocene sediments. In 1977, Kerr Addison Mines Ltd. explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical and drill programs were conducted. In 1978-79, Banqwest Resources Ltd. carried out geological mapping, hydrogeochemical, soil geochemical, radiometric and trenching programs.

BIBLIOGRAPHY

EMPR ASS RPT \*6483, 6914, 7666

EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC

MINFILE NUMBER: 082LSW136

FIELD CHECK: Y FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW137

NATIONAL MINERAL INVENTORY:

NAME(S): TAD 3 WEST, NIGHT OWL, DOBBIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L04W BC MAP:

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

LATITUDE: 50 00 57 N LONGITUDE: 119 46 30 W ELEVATION: 1740 Metres

NORTHING: 5544081 EASTING: 301203

PAGE:

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530

LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole 80-32 (Assessment Report 8456).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite

Magnetite

ALTERATION: Epidote ALTERATION TYPE: Epidote
MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic **GROUP** 

Middle Jurassic

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Harper Ranch Unnamed/Unknown Informal

LITHOLOGY: Biotite Pyroxenite

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: YEAR: 1980 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** 0.0180 Copper Per cent

COMMENTS: Over 8 metres

REFERENCE: Assessment Report 8456.

**CAPSULE GEOLOGY** 

The Tad 3 West showing is located 25 kilometres northwest of

Kelowna, west of Whiterocks Mountain.

In this area, Devonian to Triassic Harper Ranch Group argillaceous rocks, basalt tuffs and flows, and minor rhyolite and limestone are intruded by Eocene granitic rocks. The Harper Ranch Group is, in places, intruded by Middle Jurassic ultramafic/monzonite and calc-alkaline complexes of the informally named Terrace Creek batholith. The diverse alkaline ultramafic/monzonite complex comprises hornblende, gabbro, quartz monzonite, mafic monzonite, porphyritic monzonite, biotite pyroxenite and hornblende pyroxenite. Biotite pyroxenite hosts copper mineralization. Traces of

disseminated pyrite, magnetite and chalcopyrite, associated with epidote alteration, occur in outcrop and in a drillhole. Samples assayed 0.018 per cent copper over 8 metres (Assessment Report 8456). In 1977-80, Cominco Ltd. carried out geological mapping,

magnetometer and drill programs.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6732, 7596, \*8456 EMPR EXPL 1977-E79,80; 1978-E93; 1979-9,101

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363; 2000, pp. 191-222

EMPR MAP 5207G, 7216G EMPR OF 1989-5, 1990-30

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 WWW http://www.infomine.com/

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW138

NATIONAL MINERAL INVENTORY:

NAME(S): TAD 3 EAST

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04W BC MAP: LATITUDE: 50 00 33 N

LONGITUDE: 119 45 45 W ELEVATION: 1820 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of three showings (Assessment Report 7269).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite MINERALIZATION AGE: Júrassic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry

**HOST ROCK** 

Middle Jurassic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic

**GROUP** Harper Ranch **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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Unnamed/Unknown Informal

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5543307 EASTING: 302071

LITHOLOGY: Hornblende Pyroxenite

Biotite Pyroxenite

HOSTROCK COMMENTS: Intrusive rocks of the informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks

Quesnel

PHYSIOGRAPHIC AREA: Thompson Plateau

#### CAPSULE GEOLOGY

The Tad 3 East is 25 kilometres northwest of Kelowna, west of Whiterocks Mountain.

In this area, Devonian to Triassic Harper Ranch Group argillaceous rocks, basalt tuffs and flows, and minor rhyolite and limestone are intruded, in places by Middle Jurassic ultramafic/monzonite and calc-alkaline complexes of the informally named Terrace Creek batholith. The diverse alkaline ultramafic/monzonite complex comprises hornblende, gabbro, quartz monzonite, mafic monzonite, porphyritic monzonite, biotite pyroxenite

and hornblende pyroxenite.

Hornblende pyroxenite and biotite pyroxenite plugs and dikes host copper mineralization. There are 3 showings consisting of

pyrite and chalcopyrite.
In 1977-79, Cominco Ltd. carried out geological mapping.
Biotite pyroxenite hosts copper mineralization. Traces of disseminated pyrite, magnetite and chalcopyrite, associated with epidote alteration, occur in outcrop and in a drillhole. Samples assayed 0.018 per cent copper over 8 metres (Assessment Report 8456). In 1977-80, Cominco Ltd. carried out geological mapping, magnetometer and drill programs.

## **BIBLIOGRAPHY**

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GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60 WWW http://www.infomine.com/

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW139

NATIONAL MINERAL INVENTORY:

NAME(S): MAW

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082L06W BC MAP: LATITUDE: 50 29 13 N

NORTHING: 5595197 EASTING: 340214

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

533

LATTUDE: 50 29 13 N LONGITUDE: 119 15 09 W ELEVATION: 620 Metres

ELEVATION: 620 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Limestone is exposed in a cliff (CANMET Report 811, page 204).

COMMODITIES: Limestone Marble

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Silica

MINERALIZATION AGE: Cambrian-Ordovician

**DEPOSIT** 

CHARACTER: Massive Layered Stratiform
CLASSIFICATION: Sedimentary Metamorphic Industrial Min.

TYPE: R09 Limestone SHAPE: Tabular

COMMENTS: The age of the limestone recrystallization is unknown.

The beds are flat-lying.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Tsalkom

LITHOLOGY: Marble

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: The Tsalkom is regionally metamorphosed to lower greenschist facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1944 SAMPLE TYPE: Chip

COMMODITY GRADE

Limestone 54.4400 Per cent

COMMENTS: Limestone grade is for CaO. Samples were collected at 9-metre intervals over a 370-metre length.

REFERENCE: Minister of Mines Annual Report 1961, pages 146,148.

CAPSULE GEOLOGY

The Maw showing is located on a cliff 5 kilometres northwest of Armstrong.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south, the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene Kamloops Group volcanic rocks are present in the area.

A marble unit in the Tsalkom Formation comprises blue and white medium-grained calcium marble. The unit has a massive appearance, but is thin-bedded and up to 15 metres thick. Thin schistose sheets occur between some of the beds. Scattered siliceous stringers and inclusions stand out on weathered surfaces.

Sampling of marble in 1944 returned values of 94.2 per cent calcite, with a CaO grade of 52.8 per cent. Sampling in 1961 assayed 54.4 per cent CaO, 0.23 per cent MgO, 0.09 per cent Fe203 and insolubles at 1.6 per cent (Minister of Mines Annual Report 1961, pp. 146, 148).

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
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EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MEM 296
GSC OF 637 (Map B), 736, 2167
GSC P 89-1E pp. 51-60
CANMET RPT (Bureau of Mines) \*811, p. 204, 205

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW140

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5548315 EASTING: 308029

REPORT: RGEN0100

535

NAME(S): **ESPERON 17** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 03 22 N LONGITUDE: 119 40 55 W ELEVATION: 1420 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 7753).

COMMODITIES: Molybdenum 7inc

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Sphalerite Pyrite ALTERATION: Chlorite Sericite

ALTERATION TYPE: Chloritic Sericitic MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Porphyry Disseminated

**HOST ROCK** DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Monzonite

Porphyritic Quartz Monzonite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Quesnel

**CAPSULE GEOLOGY** 

The Esperon 17 showing is located 23 kilometres north-northwest

of Kelowna, south of Esperon Creek.

In this area, Middle Jurassic quartz monzonite of the informally named Terrace Creek batholith intrudes argillaceous and calcareous sediments of the Devonian to Triassic Harper Ranch Group. The stock is cut by plugs and dikes of diorite which are intruded by quartz monzonite and aplite dikes. The intrusive rocks are cut by Tertiary basalt dikes related to volcanic rocks which overlie the older rocks.

Chloritized and sericitized quartz monzonite hosts molybdenum and zinc mineralization. Quartz veinlets carry disseminated

molybdenite and pyrite.

About 1000 metres to the west, quartz veinlets carrying pyrite and trace sphalerite occur in a porphyritic quartz monzonite.

In 1979-80, Cominco Ltd. carried out geological mapping, induced polarization and magnetometer surveys.

RIRI IOGRAPHY

EMPR ASS RPT \*7753, 8664

EMPR EXPL 1979-99,100; 1980-131

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296 GSC OF 736, 2167 GSC P 89-1E pp. 51-60

CODED BY: DISC DATE CODED: 1993/03/31

DATE REVISED: / / REVISED BY: FIELD CHECK: N

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW141

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5548109 EASTING: 303502

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

536

NAME(S): **ESPERON 11** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 03 10 N LONGITUDE: 119 44 42 W ELEVATION: 1650 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing (Assessment Report 7753).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Pyrite MINERALIZATION AGE: Júrassic

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Igneous-contact Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP** STRATIGRAPHIC AGE

Paleozoic-Mesozoic Harper Ranch Undefined Formation

**FORMATION** 

Unnamed/Unknown Informal Middle Jurassic

LITHOLOGY: Limestone

Monzonite Quartz

HOSTROCK COMMENTS: Informally named Terrace Creek batholith. Limestone of the Devonian

to Triassic Harper Ranch Group is Permian.

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

**CAPSULE GEOLOGY** 

The Esperon 11 showing is located 25 kilometres northwest of

Kelowna, near the headwaters of Sandberg Creek.

In this area, Eocene quartz monzonite intrudes argillaceous and calcareous sediments of the Devonian to Triassic Harper Ranch Group. The stock is cut by plugs and dikes of diorite which are intruded by quartz monzonite and aplite dikes. The intrusive rocks are cut by Tertiary basalt dikes related to overlying volcanic rocks.

Harper Ranch Group limestone hosts trace amounts of molybdenite and pyrite.
In 1979-80, Cominco Ltd. carried out geological mapping, induced

polarization and magnetometer surveys.

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EMPR PF (In 082LSW General - Claim Map, 1966)

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GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW142

NATIONAL MINERAL INVENTORY:

NAME(S): AITKENS/STABLES, WINFIELD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

537

BC MAP: LATITUDE: 50 04 44 N LONGITUDE: 119 20 29 W ELEVATION: 1040 Metres

NORTHING: 5550028 EASTING: 332482

LOCATION ACCURACY: Within 500M

COMMENTS: Workings (Assessment Report 7700).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Garnet

Magnetite

MINERALIZATION AGE: Miocene

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer

SHAPE: Tabular DIMENSION: 5000 x 1500 x 60 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Dimensions are the estimated extent of the fluvial deposits including

082LSW019, 72 and 93.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Miocene Chilcotin Undefined Formation

LITHOLOGY: Quartz Pebble Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Overlap Assemblage Plutonic Rocks

**CAPSULE GEOLOGY** 

The Aitkens/Stable showing is located 21 kilometres southsouthwest of Vernon, between Ribbleworth and Clark creeks.

In this area, east of the Okanagan Valley fault zone, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are in probable fault contact with metamorphic rocks of the Shuswap Terrane. Middle Jurassic granitic plutons intrude the older rocks. Eocene Penticton Group and Miocene Chilcotin Group volcanic and sedimentary rocks cap areas of older rock.

Basal, partly cemented, well-rounded, quartz pebble gravels of Miocene fluvial deposits host placer gold mineralization. The fluvial deposits unconformably overlie gneissic rocks containing amphibolite and/or volcanic rocks of the Penticton Group. The fluvial deposits extend over a 5000 by 1500 by 60 metre area and includes the Ribbleworth (082LSW019), Stuart (082LSW072) and Winfield (082LSW093) showings. The Miocene sediments are commonly overlain by Miocene plateau basalt flows. The gold is pure (850 fine), of a reddish colour, and is found as flattened pellets up to 2 millimetres in size, with some very fine gold reported. Garnet and a little magnetite occur with the gold.

By 1936, an exploration drift had been completed. 2330 grams of placer gold production, between 1933 and 1945, has been reported from the Winfield camp. In 1977-79, Union Oil Company explored the Miocene sediments for uranium. Geological mapping, hydrogeochemical, radiometric, airborne magnetometer and drill programs were conducted.

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EMPR ASS RPT 6631, 6944, \*7700

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EMPR FIELDWORK 1982, pp. 33-36; 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8512G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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GSC MEM \*296, p. 137
GSC OF 637, 736, 2167
GSC P 89-1E pp. 51-60
Canadian Journal of Earth Sciences, V. 25, No. 5, pp. 725-731

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW143

NATIONAL MINERAL INVENTORY:

NAME(S): **GLENEMMA** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

BC MAP: LATITUDE: 50 29 09 N

NORTHING: 5595123 EASTING: 338614

PAGE:

REPORT: RGEN0100

539

LONGITUDE: 119 16 30 W ELEVATION: 520 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of limestone bluffs (Minister of Mines Annual Report 1961,

page 146).

COMMODITIES: Limestone Marble

MINERALS
SIGNIFICANT: Calcite

MINERALIZATION AGE: Cambrian-Ordovician

**DEPOSIT** 

CHARACTER: Layered Stratiform CLASSIFICATION: Sedimentary Metamorphic

Industrial Min.

TYPE: R09 Limestone DIMENSION: 300 x 25 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Dimensions (length x width) of the marble unit.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Tsalkom

LITHOLOGY: Marble

Limestone

HOSTROCK COMMENTS: The age of the limestone recrystallization is unknown.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: The Tsalkom is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Glenemma showing is located 5 kilometres northwest of Armstrong. The occurrence is a 300-metre long, 25-metre high bluff north of the Armstrong-Glenemma road.

In this area, sedimentary and volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group are in fault contact to the north with Cambrian-Ordovician volcanic (Tsalkom Formation) and sedimentary (Sicamous Formation) rocks. To the south, the Nicola Group is in probable unconformable contact with Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group to the south. Cretaceous granodiorite plugs of the Salmon Arm Intrusions intrude the Nicola, Sicamous and Tsalkom rocks. Outliers of Eocene

Kamloops Group volcanic rocks are present in the area.

A marble unit in the Tsalkom Formation comprises white to grey streaked, medium to coarse-grained calcium marble. About 800 metres to the west and south of the road, similar limestone has been

quarried from a small pit.

**BIBLIOGRAPHY** 

EMPR AR \*1961, p. 145,146 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30, 1992-18 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF 637 (Map B), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N DATE REVISED: / / REVISED BY:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW144

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5574302 EASTING: 311083

IGNEOUS/METAMORPHIC/OTHER

PHYSIOGRAPHIC AREA: Thompson Plateau

REPORT: RGEN0100

540

NAME(S): RUBINCA MINE, BOULEAU LAKE

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082L05E BC MAP:

LATITUDE: 50 17 26 N LONGITUDE: 119 39 08 W ELEVATION: 1430 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Workings are 200 metres from lakeshore.

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Jasper MINERALIZATION AGE: Tertiary Agate

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Epigenetic Disseminated Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Eocene Kamloops

Undefined Formation

LITHOLOGY: Feldspar Porphyry Andesite

HOSTROCK COMMENTS: Mapped as Penticton Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional

Harper Ranch

RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**FORMATION** 

**CAPSULE GEOLOGY** 

The Rubinca mine is located 27 kilometres west of Vernon, north

of Bouleau Lake.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Extensive Eocene Penticton Group and Kamloops Group volcanic and sedimentary rocks overlie the older units.

Kamloops Group feldspar-porphyry andesite flows host jasper and

agate (Personal Communication - R. Gay, Vernon).

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EMPR RGS 1976

GSC MEM 296 GSC OF 637, 736, 2167

GSC P \*72-73, pp. 22-23; 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC REVISED BY: DISC DATE REVISED: 1993/03/31

MINFILE NUMBER: 082LSW144

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW145

NATIONAL MINERAL INVENTORY:

NAME(S): **JEWEL EAST** 

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082L05E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

541

LATITUDE: 50 27 54 N LONGITUDE: 119 39 00 W ELEVATION: 750 Metres NORTHING: 5593689 EASTING: 311933

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of a drilled area (Assessment Report 20203).

COMMODITIES: Copper Silver 7inc Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Sphalerite

Arsenopyrite Pyrite

Silica Chlorite

Malachite Oxidation Chloritic

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Mesozoic-Cenozoic

ALTERATION: Azurite

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry **Podiform** Vein

SHAPE: Tabulár

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Siliceous Siltstone

Quartz Diorite Dike

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

COMMENTS: Harper Ranch regionally metamorphosed to prehnite-pumpellyite facies.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core YFAR: 1989

GRADE COMMODITY Per cent Copper 0.1900

COMMENTS: Grade is from an 18-metre drill intersection.

REFERENCE: Assessment Report 20203.

CAPSULE GEOLOGY

The Jewel East showing is located 8 kilometres southwest of Falkland, on the south slope of the Salmon River Valley.

In this area, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group. units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Quartz diorite dikes and quartz veins, cut Harper Ranch Group tones. The siltstones host copper, gold, silver and zinc siltstones. mineralization. The mineralization is associated with two quartz diorite dikes, dipping 70 degrees to the northeast. Siltstones on the hangingwall of the upper dike host gold mineralization (0.8 gram per tonne over 1.3 metres). On the hangingwall of the lower dike, silicified and chloritic siltstones host copper mineralization. Disseminated and fracture-controlled chalcopyrite, arsenopyrite, malachite and azurite occur with or without quartz. An 18-metre drill section assayed 0.19 per cent copper (Assessment Report 20203). There are also 0.3 to 1-metre zones of semi-massive sulphides both within the dike and the siltstone that carry copper, zinc, gold and silver mineralization. These zones may be structurally controlled.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Chalcopyrite, sphalerite and pyrite assayed up to 7.6 per cent copper, 2.0 per cent zinc, 1.7 grams per tonne gold and 125 grams per tonne silver (Assessment Report 20203).

In 1988-90, Corona Corporation carried out geological mapping, soil geochemistry, trenching, VLF-EM and magnetic surveys and drilling.

#### **BIBLIOGRAPHY**

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EMPR RGS 1976

GSC MAP 1059A, 1712A

GSC MEM 296

GSC OF 637 (Map C), 736, 2167

GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N
DATE REVISED: 1993/09/21 REVISED BY: DISC FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW146

NATIONAL MINERAL INVENTORY:

NAME(S): MISSION HILL WEST, MISSION HILL

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L03W

UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 12 14 N LONGITUDE: 119 19 28 W ELEVATION: 560 Metres

NORTHING: 5563886 EASTING: 334128

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

543

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showing (Geological Survey of Canada, Summary Report 1931A).

COMMODITIES: Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Mesothermal SHAPE: Tabular

DIMENSION: STRIKE/DIP: 125/60E TREND/PLUNGE: COMMENTS: Vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Middle Jurassic Unnamed/Unknown Informal

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Informally named Terrace Creek batholith.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Plutonic Rocks Harper Ranch

**CAPSULE GEOLOGY** 

The Mission Hill West showing is located 8 kilometres south-

southwest of Vernon, west of Kalamalka Lake.

In this area, west of the Okanagan Valley fault zone, volcanic and sedimentary rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Granitic Coryell rocks of Eocene age

intrude the Paleozoic and Mesozoic rocks. Pa Group volcanic rocks overlie the older rocks. Patches of Eocene Penticton

A quartz vein in quartz diorite hosts silver, lead and gold mineralization. A 2-metre thick quartz vein carries sparse disseminations of pyrite and galena. The vein strikes at 125 degrees azimuth and dips 60 degrees to the northeast.

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EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296, p. 147 GSC OF 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, p. 77, 84

DATE CODED: 1993/03/31 DATE REVISED: 1993/05/17 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW147

NATIONAL MINERAL INVENTORY:

NAME(S): SILVER STREAK, MOUNT VERNON, VK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L06E BC MAP:

LATITUDE: 50 17 03 N LONGITUDE: 119 10 26 W ELEVATION: 1160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein in a trench (Assessment Report 5830).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz

MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epigenetic

Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP

Unknown

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

PAGE:

REPORT: RGEN0100

544

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5572487 EASTING: 345131

LITHOLOGY: Quartz Feldspar Biotite Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Silver Streak showing is located 7 kilometres east-northeast of Vernon, on the north side of Vernon Hill.

In this area, east of the Okanagan Valley fault, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These Paleozoic and Mesozoic units are faulted over gneissic rocks of unknown age and metasedimentary rocks of the Proterozoic Silver Creek Formation. Jurassic granitic rocks cut all of the above rocks. Outliers of Eocene Kamloops Group volcanic and sedimentary rocks cap the older units.

A quartz vein in quartz-feldspar biotite gneiss of Mesozoic-

Cenozoic(?) age contains chalcopyrite.

In 1968-74, King Graybarr Mines Ltd. carried out trenching, geological mapping, airborne magnetometer and drilling programs. 1975 Canadian Superior Exploration Ltd. conducted a program of geological mapping and drilling.

**BIBLIOGRAPHY** 

EMPR AR 1968-223

EMPR ASS RPT 2000, 5003, 5432, \*5830, 12097 EMPR EXPL 1975-E53; 1978-E95,96; 1983-146

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR GEM 1969-298; 1971-432,433; 1972-80; 1973-101; 1974-90

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LSW147

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW148

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

545

NAME(S):  $\frac{\text{MOUNT VERNON COPPER}}{\text{VK, VI}}$ , MOUNT VERNON, SILVER STREAK,

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 50 17 13 N LONGITUDE: 119 10 10 W NORTHING: 5572786 EASTING: 345456

ELEVATION: 1100 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole 75-1 (Assessment Report 5830).

Silver COMMODITIES: Copper Gold Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite Molybdenite Chalcocite

ASSOCIATED: Quartz ALTERATION: Sericite ALTERATION TYPE: Sericitic Pyrite Káolin Malachite Chalcocite Silica Oxidation Silicific'n

MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Porphyry

SHAPE: Regular MODIFIER: Sheared Faulted Metres

DIMENSION: 600 x 30 STRIKE/DIP: TREND/PLUNGE: COMMENTS: Mineralized dike (length x thickness).

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Unnamed/Unknown Formation Nicola

Mesozoic-Cenozoic Unnamed/Unknown Informal

LITHOLOGY: Quartz Feldspar Porphyry Dike Quartz Feldspar Biotite Gneiss

Argillite

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay Quesnel

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1975 CATEGORY: Assay/analysis

SAMPLE TYPE: Drill Core COMMODITY **GRADE** 

Per cent Molvbdenum 0.0370

COMMENTS: Grade is per cent molybdenite from 6 metres of percussion drill cuttinas.

REFERENCE: Assessment Report 5830.

**CAPSULE GEOLOGY** 

The Mount Vernon Copper showing is located 8 kilometres east-northeast of Vernon, north of Vernon Hill.

In this area, east of the Okanagan Valley fault, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These units are faulted over gneissic rocks of unknown age and metasedimentary rocks of the Proterozoic Silver Creek Formation. Jurassic grantic rocks cut all of the above rocks. Outliers of Eocene Kamloops Group volcanic and sedimentary rocks cap the older units.

A porphyritic dike that cuts quartz-feldspar biotite gneiss and Nicola Group argillites hosts copper, gold, silver and molybdenum mineralization. A silicified quartz feldspar porphyry dike, 600 metres long and up to 30 metres thick, strikes generally east-west. It is sheared, faulted and diffuse, and in places appears as an alteration zone along a shear. Pyrite and chalcopyrite occur as disseminations, on fractures and in quartz stringers. Some supergene chalcocite occurs. Minor molybdenite is also reported from quartz

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

veinlets. Sericitic alteration occurs and kaolin is present along shears. Drillhole 74-1, near the west end of the zone contains many short mineralized intersections. One of the better examples is 0.3 metres of 0.20 per cent copper, 1.4 grams per tonne gold and 52 grams per tonne silver from a high sulphide zone. Hole 75-1, near the east end of the zone assayed 6 metres of 0.037 per cent molybdenite (Assessment Report 5830).

In 1968-74, King Graybarr Mines Ltd. carried out trenching, geological mapping, airborne magnetometer and drilling programs. In 1975 Canadian Superior Exploration Ltd. conducted a program of geological mapping and drilling.

#### **BIBLIOGRAPHY**

EMPR AR 1968-223
EMPR ASS RPT 2000, \*5003, 5432, \*5830, 12097
EMPR EXPL 1975-E53; 1978-E95,96; 1983-146
EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363
EMPR GEM 1969-298; 1971-432,433; 1972-80; 1973-101; 1974-90
EMPR MAP 7216G, 8513G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MEM 296
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N
DATE REVISED: 1993/03/31 REVISED BY: DISC FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW149

NATIONAL MINERAL INVENTORY:

NAME(S): DCK, MOUNT VERNON, VJ

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06E

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 17 16 N LONGITUDE: 119 09 45 W ELEVATION: 1050 Metres

NORTHING: 5572865 EASTING: 345954

PAGE:

REPORT: RGEN0100

547

LOCATION ACCURACY: Within 500M

COMMENTS: Trench (Assessment Report 5830).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite

MINERALIZATION AGE: Mesozoic-Cenozoic

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Triassic-Jurassic Nicola

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Quesnel METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The Dck showing is located 8 kilometres east-northeast of Vernon, on the north side of Vernon Hill.

In this area, east of the Okanagan Valley fault, Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These units are faulted over gneissic rocks of unknown age and metasedimentary rocks of the Proterozoic Silver Creek Formation. Middle Jurassic granitic rocks cut all of the above rocks. Outliers of Eocene Kamloops Group volcanic and sedimentary rocks cap the older units.

Metamorphosed volcanic rocks (chlorite schist) of the Nicola Group host copper mineralization. Disseminated pyrite and chalcopyrite occur in a trench and 130 metres to the east in volcanic rocks, probably associated with shearing. A 0.3-metre thick massive pyrite vein was also noted.

From 1968-1974, King Graybarr Mines Ltd. carried out trenching, geological mapping, airborne magnetometer and drilling programs. In

1975 Canadian Superior Exploration Ltd. conducted a program of geological mapping and drilling.

**BIBLIOGRAPHY** 

EMPR AR 1968-223 EMPR ASS PRT 2000, 5003, 5432, \*5830, 12097 EMPR EXPL 1975-E53; 1978-E95,96; 1983-146 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR GEM 1969-298; 1971-432,433; 1972-80; 1973-101; 1974-90 EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW150

NATIONAL MINERAL INVENTORY:

NAME(S): TUK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L05E BC MAP:

LATITUDE: 50 29 19 N LONGITUDE: 119 34 28 W ELEVATION: 700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite
MINERALIZATION AGE: Mesozoic-Cenozoic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic GROUP

Nicola

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5596125 EASTING: 317385

REPORT: RGEN0100

548

LITHOLOGY: Augite Porphyry Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

COMMENTS: The Nicola is regionally metamorphosed to prehnite-pumpellyite facies.

CAPSULE GEOLOGY

The Tuk showing is located 2 kilometres southwest of Falkland,

at the base of Tuktakamin Mountain.

In this area, Upper Triassic to Lower Jurassic Nicola sedimentary and volcanic rocks unconformably overlie Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group. These units are intruded by Middle Jurassic granitic rocks. Extensive Eocene Kamloops Group volcanic and sedimentary rocks overlie the older units.

Nicola Group volcanic rocks host copper mineralization. Minor disseminated chalcopyrite occurs in augite porphyry andesite.

In 1982, Noranda carried out geological mapping, soil geochemistry and magnetic and electromagnetic surveys.

**BIBLIOGRAPHY** 

EMPR ASS PRT \*10594

EMPR FIELDWORK 1982, pp. 89-92; 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5214G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 DATE REVISED: 1993/06/03

CODED BY: DISC REVISED BY: DISC

MINFILE NUMBER: 082LSW150

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW151

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5566952 EASTING: 310822

PAGE:

REPORT: RGEN0100

549

NAME(S): UPPER WHITEMAN CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 13 28 N
LONGITUDE: 119 39 08 W
ELEVATION: 990 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence (Assessment Report 13469).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Cenozoic

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Cenozoic **Undefined Group**  **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

The Upper Whiteman Creek showing is located 28 kilometres west

of Vernon, on the south side of Whiteman Creek.
In this area, Devonian to Triassic sedimentary and volcanic

rocks of the Harper Ranch Group are intruded by Middle Jurassic granitic rocks. Eocene Penticton Group or Kamloops Group volcanic rocks overlie the igneous and sedimentary rocks. Eocene Coryell rhyodacite porphyry to syenite plugs and dikes intrude these rocks.

Quaternary or older fluvial gravels host placer gold mineralization. Well-worn flake gold was panned from a partly

consolidated paleochannel about 20 metres above the present creek level.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13469

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR MAP 37, 5207G, 7216G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296

GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 DATE REVISED: 1993/07/07 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 082LSW151

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW152

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5574856

EASTING: 324649

REPORT: RGEN0100

550

NAME(S): GOODENOUGH B, HUGAL, GOODENOUGH SOUTH, PORTEOUS, NOVA, WIN ART,

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L06W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 50 17 59 N LONGITUDE: 119 27 44 W ELEVATION: 690 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trench (Assessment Report 6404).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Pyrite COMMENTS: Mineralization associated with calc-silicates.

COMMENTS: Calc-silicate alteration.
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Disseminated Stockwork

CLASSIFICATION: Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Calc-silicate Skarn Volcaniclastic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Goodenough B showing is located  $14\ \mathrm{kilometres}\ \mathrm{west-northwest}$  of Vernon, north of Naswhito Creek.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic These units are intruded by Middle Jurassic granitic rocks. rocks. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Altered volcaniclastic rocks of the Harper Ranch Group host copper mineralization. Disseminated and veined chalcopyrite and pyrite mineralization occurs within calc-silicate skarn.

In 1963-64, Empire Development Co. Ltd. conducted geological mapping, soil geochemistry, magnetometer and self-potential surveys and a drilling program. In 1969-75, Hudson Bay Exploration and Development Co. Ltd. carried out an induced polarization survey and drilling. In 1977-78, Cominco Ltd. carried out geological mapping and magnetometer and induced polarization surveys. In 1985-88, Brican Resources Ltd. conducted trenching and drilling programs.

**BIBLIOGRAPHY** 

EMPR AR 1962-66; 1964-104

EMPR ASS RPT 2042, \*6404, 6947, 18179

EMPR EXPL 1977-E80; 1978-E95; 1988-C56 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 355-363 EMPR GEM 1969-299,357

EMPR MAP 7216G, 8513G EMPR OF 1989-5, 1990-30

EMPR PF (In 082LSW General - Claim Map, 1966; \*Barker, R.G. (1990):

Draft Property Descriptions) EMPR RGS 1976

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 46-7, 48-4A, 1059A, 1712A GSC MEM 296, p. 144 GSC OF 637 (Map C), 736, 2167 GSC P 89-1E pp. 51-60 GSC SUM RPT \*1931A, pp. 91-92

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 CODED BY: DISC REVISED BY: DISC FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW153

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5576213 EASTING: 323823

REPORT: RGEN0100

552

 $\begin{array}{ll} \text{NAME(S):} & \underline{\text{GOODENOUGH PORPHYRY}}, \, \text{GOODENOUGH, \, HUGAL,} \\ \underline{\text{SUPER}} & \end{array}$ 

STATUS: Showing MINING DIVISION: Vernon

REGIONS: British Columbia NTS MAP: 082L06W

BC MAP:

LATITUDE: 50 18 42 N LONGITUDE: 119 28 28 W

ELEVATION: 950 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Trench (Assessment Report 6404).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Pyrite ALTERATION: Sericite
ALTERATION TYPE: Sericitic MINERALIZATION AGE: Jurassic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Unnamed/Unknown Formation Unnamed/Unknown Informal Middle Jurassic

LITHOLOGY: Porphyritic Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Goodenough Porphyry showing is located 15 kilometres west-northwest of Vernon, north of Naswhito Creek.

In this area, Devonian to Triassic sedimentary and volcanic rocks of the Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks. Eocene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Porphyritic quartz diorite hosts copper mineralization. Minor chalcopyrite occurs in the highly pyritic, sericitized quartz diorite.

In 1969, Hudson Bay Exploration and Development conducted magnetometer and induced polarization surveys. In 1977-78, Cominco Ltd. carried out geological mapping and magnetometer and induced polarization surveys.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2042, \*6404, 6947, 18179

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EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54 EMPR GEM 1969-299,357

EMPR MAP 7216G, 8513G

EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976

GSC MEM 296 GSC OF 637, 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/03/31 CODED BY: DISC FIELD CHECK: N REVISED BY: DISC DATE REVISED: 1993/03/31

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW154

NATIONAL MINERAL INVENTORY:

NAME(S): OYAMA 2

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082L04E BC MAP:

LATITUDE: 50 03 10 N LONGITUDE: 119 35 19 W ELEVATION: 1410 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Sampled outcrop (Assessment Report 6727).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Uraninite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary

COMMENTS: Basal sandstone in paleo-channel.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Focene Middle Jurassic

GROUP Penticton

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

553

Unnamed/Unknown Informal

MINING DIVISION: Vernon

UTM ZONE: 11 (NAD 83)

NORTHING: 5547709 **EASTING: 314696** 

LITHOLOGY: Sandstone

Conglomerate Andesite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Harper Ranch

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Chip

Assay/analysis

YEAR: 1975

COMMODITY Uranium

Per cent

COMMENTS: Chip sample across 0.5 metre assayed 0.017 per cent U3O8. REFERENCE: Assessment Report 6727.

**CAPSULE GEOLOGY** 

The Oyama 2 showing is located on the west side of Okanagan Lake about 8 kilometres west of Okanagan Centre.

**GRADE** 

0.0148

The area is underlain by Eocene volcanic and sedimentary rocks of the Penticton Group and Middle Jurassic granitic rocks. These comprise andesite, sandstone, conglomerate, argillite and quartz monzonite and granodiorite.

The Eocene sediments are slightly enriched with uranium mineralization. One 0.5-metre chip sample from an outcrop assayed 0.017 per cent U308 (Assessment Report 6727). A percussion drillhole, entirely in volcanic rocks, recovered no radioactive rock chips.

Mapping, sampling and one drillhole were completed in 1978 by Du Pont of Canada Exploration Ltd.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6727

EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54

EMPR MAP 7216G

EMPR OF 1989-5, 1990-30, 1990-32

EMPR PF (In 082LSW General - Claim Map, 1966)

EMPR RGS 1976 GSC MEM 296 GSC OF 736, 2167

MINFILE NUMBER: 082LSW154

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 89-1E pp. 51-60

DATE CODED: 1993/09/08 CODED BY: DEJ FIELD CHECK: N DATE REVISED: 1993/09/10 REVISED BY: DEJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW155

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5575372 EASTING: 324943

REPORT: RGEN0100

555

NAME(S): **GOODENOUGH A**, GOODENOUGH SOUTHEAST, NOVA, HUGEL, PORTEOUS, WIN ART,

BR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Vernon

NTS MAP: 082L06W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 50 18 16 N LONGITUDE: 119 27 30 W ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Pit and trenches (Assessment Report 6947).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Pyrite Pyrrhotite COMMENTS: Calc-silicates are associated with the mineralization.

COMMENTS: Calc-silicate skarn alteration.
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Paleozoic-Mesozoic

**DEPOSIT** 

CHARACTER: Stratabound Massive Podiform

CLASSIFICATION: Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Harper Ranch Undefined Formation

LITHOLOGY: Calc-silicate Skarn Volcaniclastic

HOSTROCK COMMENTS: The Harper Ranch Group is Devonian to Triassic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Harper Ranch METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Harper Ranch is regionally metamorphosed to lower greenschist facies.

**CAPSULE GEOLOGY** 

The Goodenough A showing is located  $14\ \mathrm{kilometres}\ \mathrm{west-northwest}$  of Vernon, north of Naswhito Creek.

In this area, sedimentary and volcanic rocks of the Devonian to Triassic Harper Ranch Group are unconformably overlain by Upper Triassic to Lower Jurassic Nicola Group sedimentary and volcanic rocks. These units are intruded by Middle Jurassic granitic rocks of the informally named Terrace Creek batholith. Eccene Penticton Group volcanic rocks overlie the igneous and sedimentary rocks.

Altered volcaniclastic rocks of the Harper Ranch Group host

copper mineralization. A 1.5-metre thick lens of massive pyrite and pyrrhotite with disseminated chalcopyrite blebs is associated with a calc-silicate skarn.

In 1963-64, Empire Development Co. Ltd. conducted geological mapping, soil geochemistry, magnetometer and self-potential surveys and drilling programs. In 1969-75, Hudson Bay Exploration and Development Co. Ltd. carried out an induced polarization survey and drilling. In 1977-78, Cominco Ltd. carried out geological mapping and magnetometer and induced polarization surveys. In 1985-88, Brican Resources Ltd. conducted trenching and drilling programs.

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EMPR PF (In 082LSW General - Claim Map, 1966; \*Barker, R.G. (1990):

Draft Property Descriptions)

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC MAP 46-7, 48-4A, 1059A, 1712A
GSC MEM 296, p. 144
GSC OF 637 (Map C), 736, 2167
GSC P 89-1E pp. 51-60
GSC SUM RPT \*1931A, pp. 91-92

DATE CODED: 1993/03/31 DATE REVISED: 1993/03/31 FIELD CHECK: Y FIELD CHECK: N CODED BY: DISC REVISED BY: DISC

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW156

NATIONAL MINERAL INVENTORY:

NAME(S): IRISH 2, GAN, EQUESIS

STATUS: Showing REGIONS: British Columbia NTS MAP: 082L06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Vernon

PAGE:

REPORT: RGEN0100

557

LATITUDE: 50 23 50 N LONGITUDE: 119 23 20 W ELEVATION: 1220 Metres NORTHING: 5585525 EASTING: 330219

LOCATION ACCURACY: Within 1 KM

COMMENTS: Trench T-27 (Assessment Report 18717, samples EQW004-014).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Carbonate

**Fuchsite** Carbon

ALTERATION TYPE: Quartz-Carb. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Stockwork Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP** Nicola

Tertiary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Unnamed/Unknown Informal

LITHOLOGY: Andesite Shale Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel

INVENTORY

ORE ZONE: TRENCH

REPORT ON: N

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

YEAR: 1987

**COMMODITY** 

**GRADE** 

Gold 3.2000 Grams per tonne COMMENTS: Highest value from quartz veins (trench 87-27, sample CS-163).

REFERENCE: Assessment Report 17167.

**CAPSULE GEOLOGY** 

The Irish 2 showing is located 15 kilometres northwest of Vernon, between Equesis Creek and Highway 97.

The area is underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. These comprise andesite and shale which have been intruded by Tertiary monzonite dikes and plugs.

Quartz veins occur in carbonate altered, fuchsitic andesites and strongly sheared shales. The veins contain pyrite and sporadic gold values over narrow widths. The andesite also contains wispy black carbon. In the shales, the generally narrow veins pinch and swell and are highly irregular. The veins in the andesites are larger and

occur as stockworks.

A sample (CS-163) from trench 87-27 assayed 3.2 grams per tonne gold (Assessment Report 17167). The highest value from sampling in 1988 was 1.55 grams per tonne gold over 1 metre (Assessment Report 18717, sample EQW011). The sample contained quartz fragments in a highly deformed matrix of shale and andesite. Quartz veining is believed to have preferentially occurred at the intersection of two structures.

In 1983, Minequest Exploration performed stream sediment sampling, soil sampling, prospecting, rock chip sampling and heavy mineral sampling. In 1984, prospecting and geological mapping was conducted on the claims. In 1987-88, soil sampling, trenching and geophysics were completed.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 12313, 13749, 16039, \*17167, \*18717 EMPR FIELDWORK 1987, pp. 55-58; 1988, pp. 49-54 EMPR MAP 7216G EMPR OF 1989-5, 1990-30 EMPR PF (In 082LSW General - Claim Map, 1966) EMPR RGS 1976 GSC MEM 296 GSC OF 736, 2167 GSC P 89-1E pp. 51-60

DATE CODED: 1993/09/09 DATE REVISED: 1993/09/09 CODED BY: DEJ REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW157

NATIONAL MINERAL INVENTORY:

NAME(S): WHY 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

559

NORTHING: 5569300 EASTING: 312630

LATITUDE: 50 14 46 N LONGITUDE: 119 37 41 W ELEVATION: 1620 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein at northwest corner of the Why 2 claim (Assessment Report 18865,

sample Z-88-R-801).

COMMODITIES: Gold

Silver

**MINERALS** 

SIGNIFICANT: Unknown

COMMENTS: Similar to the Boul (082LSW069) showing, electrum is likely present.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal

**Epigenetic** 

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP** 

Eocene Middle Jurassic Eocene

Penticton

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal Corvell Intrusions

LITHOLOGY: Granodiorite

Andesite Syenite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Thompson Plateau

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

YEAR: 1988

COMMODITY

**GRADE** 

Grams per tonne 1.9000

Silver

Gold

2.4900 Grams per tonne

COMMENTS: Sample from 25 centimetre vein.

REFERENCE: Assessment Report 18865, sample Z-88-R-801.

CAPSULE GEOLOGY

The Why 2 showing is located 13 kilometres west of Okanagan Lake and 25 kilometres west of Vernon adjacent to the Brett prospect (082LSW084).

The area is underlain by Middle Jurassic granodiorite and remnant andesitic rocks of the Eocene Penticton Group which have been

intruded by Eocene Coryell granites and syenites.

Mineralization consists of gold values in narrow quartz veins. Mineralization consists of gold values in harrow quartz veins. The veins occur in granodiorite near the base of the Tertiary. The veins, up to 25 centimetres wide, and wallrocks are anomalous in gold. One 25 centimetre vein assayed 2.49 grams per tonne gold and 1.9 grams per tonne silver (Assessment Report 18865, sample Z-88-R-801). The best sample from trenching assayed 0.209 gram per tonne gold over 6 metres in trench 4 (Assessment Report 18865). This showing is probably the southerly extension of the Boul showing (082LSW069).

Mapping, sampling, geochemical and geophysical surveys and trenching were carried out in 1988 for Atlanta Gold Corp. by

Discovery Consultants.

**BIBLIOGRAPHY** 

EMPR ASS RPT 18799, \*18865

MINFILE NUMBER: 082LSW157

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR MAP 7216G
EMPR OF 1989-5, 1990-30
EMPR PF (In 082LSW General - Claim Map, 1966)
EMPR RGS 1976
GSC MEM 296
GSC OF 736, 2167
GSC P 89-1E pp. 51-60
WWW http://www.infomine.com/

DATE CODED: 1993/09/10 DATE REVISED: / / CODED BY: DEJ REVISED BY: FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082LSW157

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW158

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5593310 EASTING: 309571

REPORT: RGEN0100

561

NAME(S): WILL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082L05E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 50 27 39 N

LONGITUDE: 119 40 59 W ELEVATION: 635 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location given is road ditch outcrop.

COMMODITIES: Kaolinite

**MINERALS** 

SIGNIFICANT: Kaolinite ASSOCIATED: Quartz **Biotite** 

MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Syngenetic TYPE: B05 Res SHAPE: Tabular Industrial Min.

Residual kaolin

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Eocene **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Kamloops

LITHOLOGY: Kaolinite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Quesnel METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**CAPSULE GEOLOGY** 

The Will showing is a road ditch outcrop at the base of outcrop on the south side of the Salmon River valley. It probably is the basal part of the Eocene Kamloops Group. Extensive overburden does not allow any assessment of the extent of the kaolinite-bearing rocks. The kaolinite was identified by x-ray diffraction of untreated and heated samples (1 hour @ 550 degrees Celsius).

**BIBLIOGRAPHY** 

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GSC P 89-1E, pp. 51-60

DATE CODED: 1995/03/07 DATE REVISED: 1995/03/07 FIELD CHECK: Y CODED BY: PBR REVISED BY: PBR

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW159

NATIONAL MINERAL INVENTORY:

NAME(S): PINAUS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Vernon

NTS MAP: 082L05E BC MAP:

UTM ZONE: 11 (NAD 83)

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REPORT: RGEN0100

562

LATITUDE: 50 23 41 N LONGITUDE: 119 36 45 W ELEVATION: 1335 Metres

NORTHING: 5585782 EASTING: 314319

LOCATION ACCURACY: Within 500M

COMMENTS: Location given is centred on a roadcut of diatomaceous sediments.

Metres

COMMODITIES: Diatomite

**MINERALS** 

SIGNIFICANT: Diatomite ASSOCIATED: Quartz Feldspar

ALTERATION: Montmorillonite MINERALIZATION AGE: Eocene

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Syngenetic TYPE: F06 Lac Industrial Min.

Lacustrine diatomite

SHAPE: Tabular
DIMENSION: 1900 x 2
COMMENTS: Flat lying.

STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Chilcotin STRATIGRAPHIC AGE Miocene

**FORMATION Undefined Formation** 

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Diatomite

Rhyolite Ash Tuffaceous Shale Rhvolite Siltstone Rhyolite Tephra Rhyolite Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Okanagan Highland

TERRANE: Quesnel

**CAPSULE GEOLOGY** 

At the Pinaus showing, waterlain, tuffaceous (rhyolite ash) shale and siltstone lie at the base of a rhyolite succession which passes upwards into rhyolite tephra and flows. The diatomaceous

earth locally develops at the base of this succession.

These diatomaceous rocks are absorbant, light in colour and weight, and contain a mixture of tuffaceous debris and diatom filaments. The age of these rocks appears to be Miocene based on preliminary evaluations of well preserved fossil leaves and pollen grains (personal communication in 1996 with L. Donaldson, Okanagan College). This would make the rhyolitic succession part of the

Miocene Chilcotin Group.

**BIBLIOGRAPHY** 

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Precious Stones and Au-Ag Veins in Tertiary Outliers of the Okanagan-Boundary District (82E, 82L) (in press).

DATE CODED: 1995/03/07 CODED BY: PBR REVISED BY: BNC FIELD CHECK: Y DATE REVISED: 1996/01/01 FIELD CHECK: Y

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW160

NATIONAL MINERAL INVENTORY:

NAME(S): TERRACE MOUNTAIN

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Vernon UTM ZONE: 11 (NAD 83)

NTS MAP: 082L04E BC MAP: LATITUDE: 50 06 00 N

PAGE:

REPORT: RGEN0100

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LONGITUDE: 119 38 04 W ELEVATION: Metres LOCATION ACCURACY: Within 500M

NORTHING: 5553073 EASTING: 311601

COMMENTS:

COMMODITIES: Perlite

**MINERALS** 

SIGNIFICANT: Perlite MINERALIZATION AGE:

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

Syngenetic Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Ünknown Penticton Bouleau Lake

LITHOLOGY: Rhyodacite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Quesnel

**CAPSULE GEOLOGY** 

Perlitic rock covers several square kilometres on the upper slopes of Terrace Mountain. It is grey on fresh surfaces, alters to light brown and is characterized by fractured, unaltered plagioclase phenocrysts (2 to 7 mm in diameter), comprising about 15 per cent of the rock. Accessory biotite, usually less than 3 millimetres in size is also set in a greenish grey glassy matrix. Anhedral olivine crystals less than 0.5 millimetres across, iron oxide (0.5 mm) and pyrite (0.5 mm) are trace components disseminated through the glass matrix. Perlitic onion skin and arcuate fractures are visible throughout the glass, which is, in places, partially converted to palagonite. The degree of palagonitization varies through the deposit, but is generally minor.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1995, Paper 1996-1, pp. 223-226

DATE CODED: 1996/04/20 DATE REVISED: 1996/04/20 CODED BY: BNC REVISED BY: BNC FIELD CHECK: Y

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 001 NATIONAL MINERAL INVENTORY: 082M1 Zn2

NAME(S): RIVER JORDAN, JORDAN RIVER, KING FISSURE, COPELAND, DEBY

STATUS: Developed Prospect MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082M01W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 07 30 N LONGITUDE: 118 24 44 W

NORTHING: 5664674 **EASTING: 401174** ELEVATION: 2133 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sulphide layer on south limb of Copeland synform

(Bulletin 57).

COMMODITIES: Zinc Silver Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Galena Pyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Bárite

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Massive

Syngenetic Exhalative

TYPE: S01 Broken Hill-type Pb-Zn-Ag±Cu F14 Sedimentary exhalative Zn-Pb-Ag

E13 Irish-type carbonate-hosted Zn-Pb SHAPE: Tabular

MODIFIER: Folded

DIMENSION: 2500 x 750 x 6 Metres STRIKE/DIP: TREND/PLUNGE: 150/15

COMMENTS: A 1 to 6 metre thick sulphide layer in the limbs and hinge of the

tight, south to southeast plunging Copeland synform is exposed over

a 2500 by 750 metre area.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Quartzite Marble Mica Schist Pelitic Gneiss

HOSTROCK COMMENTS: Cover rocks of Frenchman Cap area.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SOUTH LIMB (NO.1 LODE) REPORT ON: Y

> CATEGORY: YFAR: 1961 Measured

QUANTITY: 2605826 Tonnes

**GRADE** COMMODITY Silver 37.7000 Grams per tonne

5.1000 Per cent Lead Zinc 5.6000 Per cent COMMENTS: Ten per cent dilution. A deep drillhole since this calculation was

made indicates a much greater potential (Bulletin 57, page 48).

REFERENCE: CIM Transactions 1961, page 272.

CAPSULE GEOLOGY

The River Jordan deposit lies on the southern flank of the Frenchman Cap Dome which is part of a series of gneissic domal structures along the eastern margin of the Shuswap Metamorphic

Complex. The core granite gneiss rocks are overlain by a

heterogeneous paragneiss assemblage of calc-silicate gneiss, pelitic gneiss, quartzite and marble of probable Proterozoic or lower

Paleozoic age. The paragneiss succession hosts the stratabound deposit.

The deposit consists of a layer of sulphides less than a metre to 6 metres in thickness within the calc-silicate gneiss. The

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

sulphide-rich layer consists most commonly of a fine-grained intimate mixture of sphalerite and pyrrhotite with conspicuous eye-shaped lenses of grey, watery quartz and scattered grains of pyrite and galena. Locally it is well layered and includes minor pods and lenses of calc-silicate gneiss, schist, marble or barite (Hoy, 1982). The layers are folded and metamorphosed along with the country rock.

Resampling of the No. 1 zone (1989), returned average values of 8.5 per cent zinc, 8.2 per cent lead, and 72 grams per tonne silver from 18 samples (George Cross News Letter #226, 1989).

Measured geological reserves are 2,605,826 tonnes grading 37.7 grams per tonne silver, 5.1 per cent lead and 5.6 per cent zinc at ten per cent dilution (Canadian Institute of Mining and Metallurgy Transactions 1961, page 272). A deep drillhole since this calculation was made indicates a much greater potential (Bulletin 57, page 48).

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EMPR EXPL 1980-137,138

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EMPR MAP 43; 65 (1989)

EMPR OF 1992-1; 1998-10; 2000-22
EMPR PF (Fyles, J.T.; McCammon, J.W. (1969): Mineral Resources - Revelstoke Area in T. Hoy, Pers. Files, pp. 2,8; Statement of
Material Facts, Aug. 16, 1988, First Standard Mining Ltd.) EMR MIN BULL MR 223 B.C. 68
EMR MP CORPFILE (Bralorne Resources Limited; Pacific Petroleums Ltd.;
     The Bunker Hill Company; Pioneer Gold Mines of B.C., Limited;
     Golden Standard Mines Limited; American Standard Mines Ltd.;
     Consolidated Standard Mines Ltd.; Bralorne Pioneer Mine Ltd.)
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GSC EC GEOL 1, p. 506
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GSC P 64-32, pp. 5,29; 81-1A, pp. 33-36

CANMET IR May 1961, No. 61-40 (Flotation of Silver-Lead-Zinc Ore from Jordan River Mines Property for Bralorne Pioneer Mines Limited)

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    N.W. 1984)
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GCNL #68(Apr.10), #226, 1989; #226(Nov.22), 1990; #63(Apr.2), 1991
W MINER Oct. 1956, Vol.29, p. 128
WWW http://www.infomine.com/
Placer Dome File
```

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/12/11 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 001

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 002

NATIONAL MINERAL INVENTORY: 082M1 Mo1

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REPORT: RGEN0100

566

NAME(S): MOUNT COPELAND, JOAN, KNOX, GLACIER

STATUS: Past Producer Underground MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082M01W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 07 50 N LONGITUDE: 118 27 39 W NORTHING: 5665358 EASTING: 397784

ELEVATION: 2033 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit portal to the Glacier zone (Bulletin 57).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Calcite Sericite K-Feldspar **Biotite** Pyrrhotite

Pyrite Ilmenite Magnetite

COMMENTS: Also zircon, fluorite, apatite and sphene; rare chalcopyrite and quartz.

ALTERATION: Kaolinite Calcite **Epidote** Chlorite Sericite

K-Feldspar ALTERATION TYPE: Skarn Argillic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Massive Stockwork

CLASSIFICATION: Skarn

TYPE: Unknown

SHAPE: Tabular

MODIFIER: Folded DIMENSION: 121 x 3

Metres STRIKE/DIP: TREND/PLUNGE: COMMENTS: Glacier zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

Proterozoic-Paleoz. ISOTOPIC AGE: 773 Ma DATING METHOD: Zircon

MATERIAL DATED: Zircons

Unknown Unnamed/Unknown Informal

LITHOLOGY: Syenite Pegmatite Syenite Aplite

Nepheline Syenite Gneiss Syenite Gneiss Calc-silicate Gneiss Marble

**Biotite Schist** Quartzite

HOSTROCK COMMENTS: Dating by Okulitch, et. al., 1981.

GEOLOGICAL SETTING

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Amphibolite

Greenschist

CAPSULE GEOLOGY

The Mount Copeland deposit lies within metamorphic rocks flanking the southern margin of Frenchman Cap Dome. The Frenchman Cap Dome is one of a series of gneiss domes that occur along the eastern border of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex which is a narrow belt of high-grade metamorphic rocks in the Columbian orogen of southeastern British Columbia. This dome, which is centred 32 kilometres northwest of Revelstoke, has a core zone of migmatite and a fringing zone of metasedimentary rocks.

The metasedimentary rocks comprises a series of mappable units of biotite schist and grey schist, white quartzite, calc-silicate gneiss and marble, and grey gneiss. Concordant bodies of nepheline syenite gneiss occur with the calc-silicate gneiss and marble unit. Field, petrographic, and to a lesser extent, chemical evidence suggest the syenitic gneisses were emplaced as sills, and that these

MINFILE NUMBER: 082M 002

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

sills were emplaced before Shuswap deformation and metamorphism (Fyles, 1970; McMillan, 1974). The margins of the syenite bodies are nepheline-free, which may be the result of reaction with enclosing rocks.

The rocks have been metamorphosed and subjected to three phases of deformation. The oldest folds are recumbent and isoclinal with deformed axial surfaces and shallow easterly or westerly plunging axes. Second phase folds have overturned axial surfaces which dip steeply to the southwest and south. The broad curvature of the foliation around the southwest corner of the dome is referred to as a phase 3 fold.

Lenses of syenite pegmatite or syenite aplite are common along the northern border of the nepheline symmite unit and, because of their concentrations of molybdenite, are the focus of economic interest. Characteristically they lie parallel to foliation but they cross it locally. Massive disseminated molybdenite occurs randomly in the aplite and pegmatite lenses and to a lesser extent in calc-silicate gneisses adjacent to the syenite gneiss contact. During the life of the Mount Copeland mine, almost all production was from these aplite-pegmatite bodies within the syenite gneisses; more specifically the Glacier zone, which is up to 3 metres thick and

exposed for 121 metres along strike.

The Glacier zone occurs in a digitation which is either a fold limb or a sill of syenite gneiss in the calc-silicate gneiss unit. In this digitation, the syenite gneiss appears to be free of nepheline. Calcite is commonly present in small amounts and locally is prominent in the syenite gneiss. Minor constituents of the rock include zircon, sphene, apatite and magnetite. Some samples also contain fluorite, some pyrite and/or pyrrhotite, and some molybdenite. The lens has been folded into tightly compressed, overturned (phase 2) folds (Fyles, 1970) that plunge 15 degrees southeastward. The axial surfaces of the folds dip at moderate angles towards the south. In detail, the aplite-pegmatite zones are irregular and molybdenite distribution is highly variable. Contacts between the aplites, pegmatites, and syenites may be either sharp or gradational.

The pegmatites and aplites have similar mineralogies. leucocratic relative to the enclosing gneisses but both have local mafic-rich folia and lenses. Potassium feldspar is the dominant mineral. Locally the pegmatite matrix consists of masses of calcite that contain clusters of biotite, pyrrhotite, pyrite and ilmenite. Minor amounts of zircon are present; quartz is rare but occurs interstitially or as vug fillings. The oxide minerals, magnetite and ilmenite, are fairly common and locally form equant blobs up to 2 centimetres across. Sulphide minerals present include pyrite, pyrrhotite, molybdenite, and rare chalcopyrite. Sulphides fill

cracks in the oxide minerals and apparently post-date them.

Molybdenite has a number of habits; it may be disseminated, form clumps and rosettes of crystals along hairline cracks, fill vugs, or occur as intergrowths with calcite, sericite, and potassium feldspar. Large crystals of molybdenite contain inclusions of potassium feldspar, calcite and zircon. However, molybdenite also occurs in potassium feldspar crystals and commonly is concentrated around potassium feldspar megacrysts in the pegmatites. Pyrrhotite and pyrite are also distributed as disseminations, fracture fillings, and line or fill vugs.

In the syenite gneisses, feldspars are clouded by kaolinite alteration or stained pink by sericite-calcite alteration. Biotic is locally chloritized. The pegmatite-aplite zones are similarly altered. Epidote and chlorite coat late-stage fractures in the Biotite rocks. Veinlets commonly consist of calcite, potassium feldspar, chlorite, or rarely, quartz.

Molybdenite showings on the north flank of Copeland Ridge were discovered in 1964. Underground exploration commenced in September of 1967. A decision to go into production was made in 1969 and installation of a 180-tonne-per-day crusher and concentrator was completed in February 1970. Development work was underway simultaneously and production officially began on July 1, 1970. At that time, reserves were 163,278 tonnes grading 1.82 per cent MoS2 (Geology, Exploration and Mining in British Columbia 1973). Production ceased in July 1974 and the mine was officially closed in October 1974.

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DATE CODED: 1985/07/24 DATE REVISED: 1997/05/02 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 003

NATIONAL MINERAL INVENTORY: 082M8 Zn1

NAME(S): J & L, MCKINNON CREEK, VIEW FRACTION, RAINDOR, 98, ANNIE M, GOAT (L.14821), EQUINOX, YELLOWJACKET,

J&L, N.W. EXTENSION

STATUS: Developed Prospect REGIONS: British Columbia

Underground

MINING DIVISION: Revelstoke

NTS MAP: 082M08E

Zinc

UTM ZONE: 11 (NAD 83)

PAGE:

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BC MAP:

LATITUDE: 51 17 10 N LONGITUDE: 118 07 19 W ELEVATION: 830 Metres

NORTHING: 5682240 EASTING: 421760

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit 1, near the confluence of Carnes and McKinnon creeks, approximately 32 kilometres north of Revelstoke (Exploration

in British Columbia 1989).

COMMODITIES: Gold

Antimony

Lead

Arsenic

**MINERALS** 

SIGNIFICANT: Pvrite Sphalerite Galena Arsenopyrite

Tetrahedrite Pyrrhotite

Chalcopyrite

COMMENTS: Also silver-lead-antimony and lead-antimony sulphosalts.

ASSOCIATED: Fluorite
ALTERATION: Sericite

Chlorite

Silica

Silver

COMMENTS: Iron staining.

Chloritic

Silicific'n Carbonate

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Stockwork Disseminated Massive Syngenetic Exhalative

Industrial Min. E14 Sedimentary exhalative Zn-Pb-Ag

TYPE: E13 Irish-type carbonate-hosted Zn-Pb

105 Polymetallic veins Ag-Pb-Zn±Au SHAPE:

Tabular MODIFIER: Folded Sheared

DIMENSION: 800 x 2 Metres STRIKE/DIP:

TREND/PLUNGE: COMMENTS: Main mineralized zone traced underground; true width is 1.6 metres.

The deposit classification may also be an epigenetic complex vein

system within a shear zone.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. GROUP Hamill

**FORMATION** 

Undefined Formation

LITHOLOGY: Chloritic Phyllite

Sericitic Phyllite Chlorite Quartz Mica Schist

Sericite Quartz Mica Schist

Quartzite

Limestone

Chert

Graphitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RFI ATIONSHIP: GRADF: Greenschist

INVENTORY

ORE ZONE: YELLOWJACKET REPORT ON: Y

> CATEGORY: Combined YEAR: 1991

QUANTITY: 1030000 Tonnes

COMMODITY Silver 52.5000 Grams per tonne 2.4700 Lead Per cent

Zinc 7.0900 Per cent COMMENTS: Reported as probable and possible reserve. Original source of this

inventory is reported to be an Equinox Resources Ltd. program report from 1991.

REFERENCE: WWW http://www.weymin.com/projects.htm.

MINFILE NUMBER: 082M 003

IGNEOUS/METAMORPHIC/OTHER

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE:	YELLOWJACKET REPORT ON: Y			PORT ON: Y	
	CATEGORY: QUANTITY: COMMODITY	Inferred 337000 Tonnes	GRADE	YEAR: 1991	
	Silver Lead		53.1000 2.5000	Grams per tonne Per cent	
COMMENTS:	Zinc 7.1500 Per cent Reported as a possible reserve. The original source of this inventory value is reported to be from a 1991 Equinox Resources Ltd.				
REFERENCE:	program report. Weymin Mining Corporation, Prospectus, February 27, 1997.				
ORE ZONE:	YELLOWJACKET	Г	REPORT ON: Y		
	CATEGORY: QUANTITY: COMMODITY	Indicated 693000 Tonnes	GRADE	YEAR: 1991	
	Silver Lead Zinc		52.3000 2.4500 7.0600	Grams per tonne Per cent Per cent	
COMMENTS:	Reported as a p	robable reserve. Origir an Equinox Resources	nal source of this	inventory	
REFERENCE:	Weymin Mining (	Corporation, Prospectus	s, February 27, 1	997.	
ORE ZONE:	MAIN		RE	PORT ON: Y	
	CATEGORY: QUANTITY: COMMODITY	Combined 3607000 Tonnes	GRADE	YEAR: 1991	
	Silver Gold Lead Zinc		81.0000 7.2400 3.0000 3.9300	Grams per tonne Grams per tonne Per cent Per cent	
COMMENTS:	Reported as proven, probable and possible. The original source of this resource inventory is reported to be from a 1991 program report by Equinox Resources Ltd.				
REFERENCE:		w.weymin.com/projects	s.htm.		
ORE ZONE:	MAIN		REI	PORT ON: Y	
	CATEGORY: QUANTITY: COMMODITY	Inferred 1907000 Tonnes	GRADE	YEAR: 1991	
	Silver Gold Lead Zinc		85.5000 7.1200 3.3200 3.4800	Grams per tonne Grams per tonne Per cent Per cent	
COMMENTS:	Reported as a possible reserve. The original source of this inventory is reported to be a 1991 program report by Equinox Resources Ltd.				
REFERENCE:		Corporation, Prospectus	s, February 27, 1	997.	
ORE ZONE:	MAIN		REPORT ON: Y		
	CATEGORY: QUANTITY: COMMODITY	Indicated 1700000 Tonnes	GRADE	YEAR: 1991	
	Silver Gold Lead		75.9000 7.3800 2.6400 4.4300	Grams per tonne Grams per tonne Per cent Per cent	
COMMENTS:	this resource inv	Reported as a proven and probable reserve. The original source of this resource inventory is reported to be from a 1991 program report			
REFERENCE:	by Equinox Resources Ltd. Weymin Mining Corporation, Prospectus, February 27, 1997.				

### **CAPSULE GEOLOGY**

The J & L property is located at the confluence of Carnes and Mckinnon creeks. Prior exploration work between 1983 and 1993 was directed towards the exploration for gold, and was conducted by Pan American Minerals, BP Selco, Equinox Resources Ltd., and Cheni Gold Mines Inc. In 1997, Weymin Mining Corporation issued a prospectus on the J & L property. The J & L adits are located at 830 metres and 986 metres elevation and are accessible by road and trail, respectively.

The J & L property lies near the north end of the Kootenay Arc, a northerly trending belt of Late Proterozoic to Late Paleozoic

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#### CAPSULE GEOLOGY

metasedimentary and metavolcanic rocks that are characterized by tight to isoclinal folds and generally west verging thrust faults. Lowermost within this assemblage is the Hadrynian Horsethief Creek Group (Windermere Supergroup), which is overlain by a Hadrynian to Lower Cambrian succession that includes the Hamill Group, the Mohican Formation, the Badshot Formation and the Lower Cambrian and younger Lardeau Group. The Hamill Group is the host to sulphide mineralization at J & L.

Structurally the area has undergone at least two phases of folding. The earliest phase was pre to synregional metamorphism and formed large nappe-like structures overturned to the southwest, with second phase tight to isoclinal folds developed in the overturned limbs.

The main zones of mineralization on the J & L property are hosted by Hamill Group metasedimentary and metavolcanic rocks. These rocks are interlayered, or in possible fault contact elsewhere on the property, with the Early Cambrian Mohican and Badshot formations and the Lower and Upper Index formations of the Cambrian and younger Lardeau Group. Minor diorite, lamprophyre and amphibolite intrusive rocks are also present.

The Hamill Group consists of impure quartzites, limestone, phyllites, chloritic and sericitic quartz-mica schists, minor chert and graphitic schists. Chloritic and sericitic phyllites are developed throughout the sequence and constitute the bulk of the lithologic sequence hosting the deposit. They are gradational in composition both laterally and vertically from chlorite-rich to sericite-rich, making subdivision difficult. Quartz-rich and quartz-poor mica schists are also highly variable in composition and are prominent in the hanging wall. Sericite and quartz-sericite schists are associated with most mineralized zones. Iron staining is common in sections adjacent to mineralization and forms a narrow alteration envelope with sericite, chlorite and sulphides.

A typical section in the footwall of the main sulphide zone comprises quartz-chlorite and quartz-sericite phyllites and schists, quartzites and limestone. In the immediate footwall of the massive sulphides, the quartzites and pelitic rocks are usually overlain by two distinct carbonate units. The lower unit is a massive banded medium to dark grey limestone, which ranges in thickness from a few metres to more than 20 metres and contains little or no mineralization. It is overlain by a dark grey graphitic or carbonaceous limestone, which averages between 1 and 2 metres in thickness and contains discontinuous wispy laminations of yellowish brown crystalline sphalerite. The unit is locally silicified, has a cherty texture and is commonly cut by irregular and deformed carbonate veins and minor quartz veinlets, which may also transect the adjacent massive sulphides.

In the hanging wall, the sulphide body is normally in contact with sulphide-rich sericitic schists or phyllites of variable thickness; locally it may contact sphalerite-pyrite bearing carbonaceous limestone. Further into the hanging wall, quartzite or micaceous rocks may be interlayered with minor limestone and disseminated sulphides, which gradually decrease in abundance, giving way to phyllitic rocks with only trace amounts of disseminated pyrite.

The rocks within the main zone of the deposit are extensively deformed. They generally strike northwesterly 320-325 degrees, with an average dip of about 55 degrees to the northeast. The entire sequence is strongly to intensely sheared and most individual units are transposed. Sulphides exhibit sheared, cataclastic and weak mylonitic textures. Detailed underground mapping suggests that four or possibly five phases of deformation have affected the main zone sulphide sequence. The most prominent folds are tight to isoclinal, generally upright, with variable plunges trending northwesterly, parallel to regional structural trends. Stratigraphic and structural studies of the main zone suggest that the deposit has a moderate plunge to the southeast.

The J & L deposit is stratiform and generally conforms to the host stratigraphy, which strikes northwest and dips about 55 degrees east. The Main zone, which lies south of McKinnon Creek, has been traced on surface for approximately 1.85 kilometres and over 800 metres underground, and has an average true width of 1.6 metres. Forty sulphide occurrences containing arsenopyrite and pyrite, with variable amounts of zinc and lead, occur on the north side of McKinnon Creek and form the North zone in 4 parallel subzones. This zone was traced 1.54 kilometres along strike northwest of the Main zone and is possibly an extension of the Main zone.

The Main zone is a complex tabular or sheet-like body that tends to follow the limestone-phyllite/schist contact and, in places, splits into multiple semiparallel sheets or branches. The most

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#### CAPSULE GEOLOGY

abundant metallic minerals in the zone include pyrite, arsenopyrite, sphalerite and galena, with lesser amounts of chalcopyrite, pyrrhotite, tetrahedrite, silver-lead-antimony sulphosalts and lead-antimony sulphosalts.

The deposit consists of nearly continuous, but structurally deformed zones of massive sulphides, flanked or locally enveloped by disseminated and stringer sulphide zones, which are most prominent in the hanging wall. The lowermost section of sulphides usually forms a sharp contact with the footwall limestone. Massive sulphide sections vary, from pyrite and arsenopyrite rich to sphalerite +/- galena rich. Increasing sphalerite usually coincides with a notable decrease in arsenopyrite. Sulphide content and composition is highly variable laterally and vertically, with massive, banded and disseminated zones of contrasting composition being complexly interleaved or interfingered, possibly due to shearing. The overall thickness of the sulphide zone tends to follow the thickness of the footwall carbonaceous limestone, such that the thickness of the zone increases with increased thickness of the limestone and is usually accompanied with increases in sphalerite and galena content.

Detailed studies generally indicate that the lowermost massive

Detailed studies generally indicate that the lowermost massive zone tends to be pyrite-rich, with or without arsenopyrite and sphalerite, and has a weakly to moderately developed banded texture. It is overlain by a gold-rich arsenopyrite-pyrite zone, with laminated sphalerite +/- galena, progressing upwards to a "disseminated" sulphide zone with laminated or intrafolial sphalerite and arsenopyrite. Hanging wall sulphides tend to be more arsenical, with arsenopyrite +/- pyrite exhibiting a coarse grained, "milled", mylonitic texture near the zone margins. Laterally, some zones are sphalerite-rich, arsenopyrite (and gold)-poor and vice-versa. In sections where there are overlying massive sulphide layers, they are commonly separated by up to 10 metres of sericitic schist, that is rich in disseminated sulphides. Although they tend to be restricted in size, some hanging wall disseminated zones are zinc-rich, low in arsenopyrite and may be sufficiently concentrated, in places, to be classed as ore grade material.

Analytical data indicate that gold is most strongly associated with arsenopyrite and silver occurs with galena.

The following reserves, published in a prospectus by Weymin Mining Corporation dated February 27, 1997, are reported to be the most up-to-date and had as their source two Equinox Resources Ltd. exploration program reports from 1991. The indicated (proven and probable) resource in the Main zone is 1,700,000 tonnes grading 2.64 per cent lead, 4.43 per cent zinc, 7.38 grams per tonne gold and 75.9 grams per tonne silver. The inferred (possible) resource in the Main zone is 1,907,000 tonnes grading 7.12 grams per tonne gold, 85.5 grams per tonne silver, 3.32 per cent lead and 3.48 per cent zinc. Total for the Main zone is 3,607,000 tonnes grading 7.24 grams per tonne gold, 81.0 grams per tonne silver, 3.00 per cent lead and 3.93 per cent zinc (WWW http://www.weymin.com/projects.htm). The indicated (probable) resource in the Yellowjacket zone 693,000 tonnes grading 52.3 grams per tonne silver, 2.45 per cent lead and 7.06 zinc. The inferred (possible) resource for the Yellowjacket zone is reported at 337,000 tonnes grading 53.1 grams per tonne silver, 2.5 per cent lead and 7.15 per cent zinc. Total for the Yellowjacket zone is 1,030,000 tonnes grading 52.5 grams per tonne silver, 2.47 per cent lead and 7.09 per cent zinc. The lead-zinc-silver mineralization at the Yellowjacket zone is hosted in a quartzite/limestone sequence and differs from the Main zone in that it contains no arsenic.

Extensive and intense deformation of the J & L deposit has distorted or destroyed most original ore textures and ore-wallrock relationships. Most textures now observed result from an overprinted tectonic fabric, making interpretation of the timing and environment of deposition difficult, at best. There are two schools of thought on the deposit classification. Early interpretations classed the deposit as an epigenetic shear zone replacement, or vein deposit. Other proponents support a syngenetic sedimentary-exhalative origin. The deposit exhibits characteristics of both models and the dispute continues.

The J & L area has undergone a long history of exploration dating back to 1865. The main J & L zone was discovered in 1912 and development to date over several work periods includes approximately 1900 metres of underground drifts, crosscuts, raises and shafts. Several bulk samples have also been extracted for metallurgical testing and pilot milling in order to resolve the problems due to the high arsenical content of the ore.

Prior exploration work between 1983 and 1993 was directed towards the exploration for gold, and was conducted by Pan American Minerals, BP Selco, Equinox Resources Ltd., and Cheni Gold Mines Inc. In 1997, Weymin Mining Corporation issued a prospectus on the J & L

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

property. They drilled 3 holes totalling 503 metres, to expand the Yellowjacket and Main zones. A June 11, 1998 press release describes metallurgical test results on a bulk sample (GCNL #115(June 16), 1998).

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MINFILE NUMBER: 082M 003

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 004

NATIONAL MINERAL INVENTORY:

NAME(S): COPPER QUEEN, S, CC9

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

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LATITUDE: 51 14 30 N LONGITUDE: 118 12 04 W ELEVATION: 1100 Metres NORTHING: 5677385 EASTING: 416158

LOCATION ACCURACY: Within 500M

COMMENTS: Assessment Report 6235, Map No. 3.

COMMODITIES: Copper Silver 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Sphalerite **Pyrite** 

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Unknown Disseminated

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular DIMENSION: 0600 x 0006 STRIKE/DIP: TREND/PLUNGE: Metres COMMENTS: Length is defined by geochemistry.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE
Cambrian **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lardeau Undefined Formation

LITHOLOGY: Amphibolite

Chlorite Schist Limestone

Quartz Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The area is underlain by a sericitic quartz-feldspathic rock, overlain by a succession of metamorphic volcanic rocks that include amphibolite, chlorite schist with interbedded thin beds of limestone. Overlying the meta-volcanic sequence are quartz-sericite schist, sericite schist and quartzite. A small plug of porphyritic biotite

hornblende quartz monzonite intrudes the metamorphic rocks.

Chalcopyrite, sphalerite and pyrite occurs as disseminations and lenses in the schistose limy meta-volcanics near the contact with the overlying quartz-sericite schist. The mineralization conforms to the schistosity which trends northwest and dips 22 to 26 degrees northeast.

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EMPR EXPL 1976-58; 1977-86,87

EMPR OF 1999-2 GSC MAP 12-1964 GSC P 64-32

WWW http://www.orphanboy.com/cqueen.html

FIELD CHECK: N FIELD CHECK: N DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: LDJ DATE REVISED: 1986/02/26

MINFILE NUMBER: 082M 004

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 005

NAME(S): MASTODON, MASTADON, ERIC (L.15617)

STATUS: Past Producer REGIONS: British Columbia

MINING DIVISION: Revelstoke

NATIONAL MINERAL INVENTORY: 082M1 Zn1

NTS MAP: 082M01E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

576

LATITUDE: 51 14 30 N LONGITUDE: 118 07 14 W ELEVATION: 1680 Metres

NORTHING: 5677296 EASTING: 421781

TREND/PLUNGE:

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 5, Map 12-1964, GSC Paper 64-32, pp. 29-30, 35.

COMMODITIES: Zinc

Cadmium Silver Gold I ead Copper

Underground

**MINERALS** 

SIGNIFICANT: Sphalerite Galena

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Massive Disseminated

CLASSIFICATION: Replacement TYPE: E12 Missis

Tetrahedrite

Mississippi Valley-type Pb-Zn

E13 Irish-type carbonate-hosted Zn-Pb SHAPE: Tabular

MODIFIER: Folded DIMENSION: 90 x 60 x 3 Sheared Metres

STRIKE/DIP: 330/50E COMMENTS: Dimension describes maximum extent of largest orebody.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Cambrian

Undefined Group

Badshot

LITHOLOGY: Limestone

Dolomite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The orebodies lie on the west side of a lenticular mass of Lower Cambrian limestone and dolomite of the Badshot Formation in contact, both east and west, with dark-grey and green phyllites of the Lower Cambrian and younger Lardeau Group. The rocks are isoclinally folded and strongly sheared. Several strike faults cut the rocks trending northwest and dipping at moderate angles to the northeast parallel to foliation. The strike faults appear to be the primary control for zinc mineralization.

The mineralized zones are replacements of limestone, dolomite and phyllite mainly by sphalerite and occassionally galena and grey copper. The sphalerite, ranging in colour from light yellowish-brown to dark brown, is disseminated and massive within the limestone and occurs as the matrix of breccia associated with the strike faults. Some mineralized zones are in folds or in banding related to cleavage, both of which are cut by the faults. The orebodies dip to the northeast and rake to the north. They are tabular or lenticular and commonly split or branch.

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205; 1953-157; \*1959-106-117; 1960-86 EMPR ASS RPT \*5724, \*6522 EMPR EXPL 1975-56; 1977-86

EMPR INDEX 3-206; 4-123

EMPR PF (Air photos)
EMR MP CORPFILE (Fawn Mining Company, Limited; Golden Maniton Mines, Limited; Mastodon-Highland Bell Mines Limited; Le Mans Resources Ltd.)

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DATE CODED: 1985/07/24 DATE REVISED: 1986/02/26 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 005

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 006 NATIONAL MINERAL INVENTORY: 082M1 Zn3

NAME(S): LITTLE SLIDE, MCCALLUM

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 13 10 N NORTHING: 5674767 LONGITUDE: 118 03 54 W ELEVATION: 1740 Metres EASTING: 425623

LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol 7 Map 12-1964, GSC Paper 84-32, p. 30.

COMMODITIES: Zinc. Silver Lead Copper

**MINERALS** 

Galena Chalcopyrite

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

TYPE: 105 P SHAPE: Irregular

DIMENSION: 0015 x 0003 STRIKE/DIP: 025/85W TREND/PLUNGE: Metres

COMMENTS: Largest vein.

**HOST ROCK** DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u>

STRATIGRAPHIC AGE Cambrian Lardeau Badshot

LITHOLOGY: Phyllite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The showing is underlain by grey-banded limestone, light-grey

massive dolomite and green and grey phyllite.

Five or six white quartz veins, 6 to 9 metres apart, are mineralized with galena, sphalerite and small amounts of chalcopyrite.

The veins transect the calcareous rocks and strike northeasterly with steep dips to the northwest. The largest is 3 metres thick at the widest point thinning in both directions to a lens 15 metres long.

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EMPR EXPL 1975-E56; 1977-E86

GSC MAP 12-1964

GSC P 84-32, p. 30 GSC SUM RPT 1929, Part A, p. 190

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1986/02/28 FIELD CHECK: N

MINFILE NUMBER: 082M 006

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 007 NATIONAL MINERAL INVENTORY: 082M12 Fsp1

NAME(S): **SPAR**, CLEARWATER, SMUGGLER, BIRCH ISLAND, REXSPAR

STATUS: Developed Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 33 50 N LONGITUDE: 119 54 24 W ELEVATION: 1190 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Fluorite zone. See Rexspar (082M 021) for nearby uranium zone.

COMMODITIES: Fluorite Strontium Silver Molybdenum Gold Copper Lead Zinc

**MINERALS** SIGNIFICANT: Fluorite Bastnaesite Celestite Pyrite

ASSOCIATED: Feldspar MINERALIZATION AGE: Unknown Mica **B**astnaesite Albite Sericite

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Volcanogenic Disseminated Massive Industrial Min.

Syngenetic TYPE: D06 Volcanic-hosted U

SHAPE: Tabular DIMENSION: 350 x 300 x 50 STRIKE/DIP: 035/40W TREND/PLUNGE: Metres

HOST ROCK DOMINANT HOSTROCK: Metavolcanic

COMMENTS: Fluorite zone.

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Lithic Tuff

Devonian-Mississipp.

Tuff Trachyte Breccia Trachytic Breccia

Undefined Group

Porphyry Breccia Feldspar Porphyry Rhyolite Pyrite Schist Quartz Sericite Schist Chlorite Schist

HOSTROCK COMMENTS: Unit EBFt of the Lower Cambrian to Mississippian Eagle Bay assemblage

(Paper 1987-2).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: FLUORITE REPORT ON: Y

> CATEGORY: Measured YFAR: 1975

1360000 Tonnes QUANTITY: COMMODITY **GRADE** 

Silver 4.1000 Grams per tonne Fluorite 23.5000 Per cent Molybdenum 0.0500 Per cent Lead 0.1700 Per cent Strontium 2.4800 Per cent 0.0800 7inc Per cent

COMMENTS: Grade given for strontium was 5.2 per cent SrSO4. Conversion factor

used is 2.0963 to obtain Sr. Also 0.01% copper, 0.06 g/t gold.

REFERENCE: Property File - Wright Engineers Ltd., 1975.

CAPSULE GEOLOGY

The area is underlain by northeast striking, moderately northwest dipping felsic to intermediate metavolcanics and minor interlayered metasediments considered to be of Devonian to Mississippian age (unit EBFt, Paper 1987-2), within the Lower Cambrian to Mississippian Eagle Bay assemblage. The rocks hosting

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PAGE:

NORTHING: 5716539 EASTING: 298542

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

the fluorite deposit consist of a deformed and metamorphosed pile of alkali feldspar porphyry, porphyry breccia, lithic tuff and breccia of trachytic composition, with occasional pyritic schist of rhyolitic composition. Rocks of this trachyte unit are light grey in colour and stained rusty brown or yellow due to widespread pyrite. They may be massive, brecciated, or markedly schistose and lineated.

Fractured and sheared crystals of potash feldspar and albitic plagioclase, and rock chips of trachytic composition, occur in a fine-grained groundmass of feldspar and sericite. The trachyte unit, which is 15 to 120 metres thick, is apparently a mixture of intrusive porphyry and its extrusive equivalent tuffs and tuff breccias. It is likely related to a volcanic centre or vent.

The above unit is structurally underlain by quartz-sericite schist, chlorite schist and dacitic and andesitic volcanic breccia, with interlayers of grey phyllite, slate, chert and sericitic quartz-ite.

The prominent schistosity, which is parallel to the compositional layering and was probably produced during the first phase of deformation, is deformed by tight, recumbent, east-trending second-phase folds. These structures are refolded by upright third-phase, north to northeast trending structures. Subsequent late kinks, and prominent north-trending tension fractures, are commonly followed by post-tectonic felsic and mafic dykes of Cretaceous or later age. High-angle, north-trending faults sharply control the distribution of the trachyte unit.

The fluorite zone occurs as a concordant, tabular body, largely in lithic tuff and tuff breccia of the trachyte unit. The zone, which on average strikes 035 degrees and dips 40 degrees northwest, is about 300 metres long, up to 50 metres wide and extends over 350 metres down dip. Within the zone, the fluorite occurs as massive lenses up to 1 metre wide, small irregular streaks parallel to foliation, scattered hairline veinlets and disseminations with other minerals.

Minerals associated with the fluorite include celestite, pyrite, feldspar, mica and minor amounts of minerals containing rare earths. In the more massive lenses, the fluorite forms a dark-purple to blackish matrix surrounding the other minerals. In other lenses, evenly distributed fine-grained fluorite gives a purple colouration to the host rock. Celestite, at times as abundant as fluorite, occurs as small crystals around the fluorite grains and fractures within them. Bastnaesite is irregularly distributed with the fluorite and celestite and strontium, cesium, lanthanum, ytterbium and yttrium are associated with the fluorite. Radioactivity is weak to moderate in the fluorite zone. Uranium zones, such as the Rexspar (082M 021), occur nearby.

The geological setting and presence of pyrite-mica zones suggest that the mineralized zone was formed by deuteric, volatile-rich fluids during a late stage in the formation of the trachyte unit. The fluorite is likely syngenetic with the host rock and thus of volcanogenic origin.

Measured recoverable reserves in 1975 were 1.36 million tonnes grading 23.5 per cent fluorite, 5.2 per cent SrSO4, 4.1 grams per tonne silver, 0.05 per cent molybdenum, 0.01 per cent copper, 0.06 grams per tonne gold, 0.17 per cent lead and 0.08 per cent zinc (Property File - Wright Engineers Ltd., 1975).

In 1926 Smuggler Hill Development Company was formed to explore

In 1926 Smuggler Hill Development Company was formed to explore and develop silver and lead deposits (Smuggler, 082M 023 and Foghorn, 082M 029), which were originally staked in 1918 by A.G. McDonald. The results of this early exploration activity were reported by H.G. Nicol, 1926 and D.B. Starrett, 1930. A manganese occurrence was examined by W. Elliot and N.C. Stines in 1929 (Smuggler Manganese, 082M 158). Further geological examinations of fluorite occurrences were reported on by D.B. Starrett, R.P.D. Graham and M.R. Wilson in the early 1940's.

The presence of uranium mineralization became known in late 1949. Dr. F.R. Joubin studied and reported on the mineral occurrences during 1950 and 1951. Rexspar Uranium, later reorganized as Consolidated Rexspar Minerals and Chemicals Ltd., acquired the rights to mineral claims incorporating the uranium bearing zones and delineated three uranium deposits in the late 1950's. However, the deposits were not brought into production. Denison Mines Ltd. resampled and undertook an economic feasibility study in 1969. Exploration programs and geological reviews were conducted in 1969-1972, directed mainly at determining fluorite reserves. Additional diamond drilling of the uranium bearing zones was carried out in 1976 and the drill core was used in a metallurgical test program undertaken to establish process flowsheets.

The Fluorite deposit and the three uranium deposits have been outlined by fairly close spaced diamond drilling and by surface

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

sampling. A total of 368 surface and underground holes have been drilled from 1943 to 1976, for a total of approximately 17,280 metres. Of these, 121 holes were on the "A" deposit, 81 on the "B" deposit, 125 on the "BD" deposit and most of the others on the fluorite deposit. Drifts, cross cuts and raises for a total of 664 metres were driven in the "A" and "BD" uranium zones. The property has been prospected several times over the years. Geological mapping, radiometric surveying, soil sampling and metallurgical testing have also been performed. Work conducted by Placer Development Ltd. during October, 1981, included ground magnetometer and VLF - EM surveys.

In 1987, Consolidated Rexspar changed its name to Conrex Corporation and sold the property in 1988 to Gold Ventures Limited. American Bullion Minerals Ltd. attempted to get a permit to do exploration on the main fluorite zone in the early 1990's.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1991/03/12 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 082M 007

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 008

NATIONAL MINERAL INVENTORY: 082M12 Cu2

NAME(S): **FH**, LYDIA

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M12W BC MAP:

NORTHING: 5712091 EASTING: 297593

PAGE:

REPORT: RGEN0100

582

LATITUDE: 51 31 25 N LONGITUDE: 119 55 04 W ELEVATION: 1820 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Upper adit, Dwg. 193-4 (Assessment Report 7758).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrrhotite Pyrite Arsenopyrite

ALTERATION: Chlorite Malachite Sericite Azurite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Oxidation Chloritic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Volcanogenic
TYPE: G06 Norand
SHAPE: Tabular
DIMENSION: 0350 x 0002 Stratabound Disseminated

Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: 040/50W TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Quartzite Phyllite Gneiss Hornfels

Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YFAR: 1979 Assay/analysis

SAMPLE TYPE: Drill Core **GRADE** 

COMMODITY 1.3500 Silver Grams per tonne

0.3000Copper Per cent REFERENCE: Assessment Report 7758.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian part of the Eagle Bay rocks consisting of quartz-chlorite-sericite schist, quartzite and hornfels. They strike northeast and dip moderately to the northwest. A northwest trending 20 metre wide quartz feldspar porphyry cuts the metavolcanics.

Chalcopyrite, pyrite and pyrrhotite occur as disseminations and massive bands and blebs concordant with foliation and bedding. Chalcopyrite also occurs in quartz veins and fractures. The mineralized zone which is about 350 metres long and 2 metres thick, trends roughly 040 degrees and dips 50 degrees northwest. A drill hole intersected 4.6 metres of 0.3 per cent copper and 1.35 grams per tonne silver

(Assessment Report 7758).

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/08 REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 009 NATIONAL MINERAL INVENTORY: 082M12 Cu1

NAME(S): HARPER CREEK, HAIL-HARPER CREEK

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 31 10 N NORTHING: 5711356 EASTING: 304511

LONGITUDE: 119 49 04 W ELEVATION: 1610 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of deposit (Property File - Belik, 1973).

COMMODITIES: Copper Gold Titanium 7inc Silver

Lead Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite Sphalerite Pyrite Pyrrhotite Sphene Molybdenite Tetrahedrite Cubanite Galena Bornite

ASSOCIATED: Quartz Carbonate Magnetite Arsenopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Disseminated Stockwork Vein

TYPE: G06
SHAPE: Tabular
MODIFIER: Faulted Noranda/Kuroko massive sulphide Cu-Pb-Zn

Fractured

DIMENSION: 1800 x 600 x 100 STRIKE/DIP: 090/25N TREND/PLUNGE: Metres

COMMENTS: Main mineralized zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group Eagle Bay** 

LITHOLOGY: Quartz Sericite Phyllite

Chloritic Phyllite Carbonaceous Phyllite Sericitic Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: EAST REPORT ON: Y

> Indicated YEAR: 1987

> CATEGORY: QUANTITY: 53000000 Tonnes

**GRADE COMMODITY** 

Per cent Molybdenum 0.0160 Per cent 0.3700 Copper

COMMENTS: Open pittable. Bench-scale tests indicate 2.8 grams per tonne gold.

REFERENCE: Application for Listing 14/87, Aurun Mines Ltd.

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1997

QUANTITY: COMMODITY Copper 96000000 Tonnes

**GRADE** 0.4100 Per cent

Grams per tonne

Gold 0.0450 G COMMENTS: This geological resource was calculated previous to 1997.

REFERENCE: Information Circular 1997-1, page 29.

CAPSULE GEOLOGY

The Harper Creek deposit lies 3500 metres north of the Cretaceous Baldy batholith and within metavolcanics and metasediments of the Lower Cambrian and older(?) to Mississippian Eagle Bay

Formation.

Copper mineralization is confined to tabular-shaped zones within light silvery grey quartz-sericite phyllites, with lesser amounts of green chloritic phyllite, dark grey carbonaceous phyllite and light

MINFILE NUMBER: 082M 009

PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

grey sericitic quartzite. These rocks locally include thin horizons of quartz-feldspathic orthogneiss.

Chalcopyrite occurs as disseminations and patches along foliations, in steeply dipping, northerly striking fractures, within quartz and quartz-carbonate veins and with massive pyrite-pyrrhotite. Sphalerite, galena, arsenopyrite, molybdenite, tetrahedrite-tennanite, bornite and cubanite are present in minor quantities. Magnetite occurs locally as massive lenses containing minor chalcopyrite.

Sphene occurs evenly disseminated or in clusters within chloritic phyllite. Rocks with 15 to 20 per cent sphene contain an average of 2.0 per cent titanium (Property File - Belik, 1973).

The tabular mineralized zones strike approximately east and dip about 25 degrees to the north, in approximate conformity with the schistosity and lithology of the host rocks. In detail, however, the zones transgress lithologic contacts and are not stratigraphically controlled. The main mineralized zone is about 1800 metres long, has a local thickness of 100 metres and has been explored downdip for 600 metres. A north-northeast trending, southeast dipping fault cuts the zone midway.

The East zone contains indicated open pittable reserves of 53 million tonnes grading 0.37 per cent copper and 0.016 per cent molydenum. Bench-scale tests indicate 2.8 grams per tonne gold and 88.4 grams per tonne silver. There are also significant titanium values (Application for Listing 14/87, Aurun Mines Ltd.).

By 1997, American Comstock Exploration Ltd. had aquired a 100 per cent interest in the project and had conducted a 9-hole diamond drilling program (in 1996). A 171-metre intersection assayed 0.31 per cent copper (Exploration in BC 1996, page D5). The program was designed to increase a previously calculated geological resource of 96 million tonnes grading 0.41 per cent copper, 0.045 gram per tonne gold and 2.5 grams per tonne silver (Information Circular 1997-1, page 29).

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EMPR GEM 1969-229; \*1970-297-301; 1971-443; 1972-93; 1973-116-117; 1974-98
EMPR INF CIRC 1997-1, p. 29
EMPR MAP 65 (1989)
EMPR OF 1992-1
EMPR PF (\*Thesis by G. Belik, 1973; Letter to Shareholders, Aurun Mines Ltd., July 8, 1986)
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GCNL #209, 1978
N MINER May 18, 1986
WWW http://www.infomine.com/
Dickie, G.J., V.A. Preto and P. Schiarizza (in preparation): Mineral Deposits of the Adams Plateau-Clearwater area
Preto, V.A. and P. Schiarizza (1985): Geology and Mineral Deposits of the Adams Plateau and Clearwater Region in GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/12/29 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 009

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 010

NATIONAL MINERAL INVENTORY:

NAME(S): BEX ZONE, RAN

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082M05E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

Unnamed/Unknown Informal

PAGE:

REPORT: RGEN0100

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LATITUDE: 51 17 40 N

NORTHING: 5686106 EASTING: 309745

LONGITUDE: 119 43 44 W ELEVATION: 990 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Showing, Map 2 (Assessment Report 14124).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Unknown Disseminated

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Spapilem-Deadfall Creeks

Lower Cambrian **Undefined Group** Upper Devonian

ISOTOPIC AGE: 126 +/- 4 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartzite

Phyllite Schist

Calc-silicate Schist

Staurolite Garnierite Mica Schist

Amphibolite

HOSTROCK COMMENTS: Dating by Okulitch, 1979.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by probable Lower Cambrian to Hadrynian age Spapilem Creek-Deadfall Creek Succession (unit SDQ Map 56). The rocks consist of quartzite, micaceous quartzite, grit and phyllite with lesser staurolite-garnet-mica schist, calc-silicate schist and amphibolite. These rocks are cut by Late Devonian orthogneiss and sillimanite bearing paragneiss (unit Dgnp). To the northeast, the rocks are cut by post-tectonic granitic rocks of the Mid-Cretaceous Baldy Batholith. Locally the intrusion is a quartz-diorite with

related quartz-monzonite along the contact with the paragneiss.

Mineralization consisting of disseminated pyrite and chalcopyrite along foliation planes occurs within feldspar mica paragneiss. The foliation strikes 120 degrees and dips 45 degrees southwest. Geochemical results have outlined an anomalous zone of about 1200 metres,

striking 120 degrees.

A north-east striking fault zone is interpreted (Assessment Report 14124) to laterally offset the quartz-diorite/paragneiss contact, 400 metres to the left. This interpretation is supported by geochemical results. The Bex Zone may be an offset continuation of the Grizzly Zone (082M 049), 1200 metres to the west.

**BIBLIOGRAPHY** 

EMPR AR 1967-134; 1968-168 EMPR ASS RPT \*2230, \*3432, \*10480, \*11149, \*12081, \*14124

EMPR EXPL 1978-E109; 1982-111; 1983-159; 1985-C104

EMPR GEM 1971-438 EMPR MAP 56 EMPR OF 2000-7

GSC MAP 48-1963

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 010

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 011

NATIONAL MINERAL INVENTORY:

NAME(S): BIG BEN 2, PETE 16

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M04E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

LATITUDE: 51 04 10 N LONGITUDE: 119 36 24 W ELEVATION: 1900 Metres

NORTHING: 5660780 EASTING: 317378

PAGE:

REPORT: RGEN0100

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LOCATION ACCURACY: Within 500M

COMMENTS: Anomaly "h", map (Assessment Report 1936).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

STRIKE/DIP: 045/65N TREND/PLUNGE: DIMENSION:

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Eagle Bay** 

LITHOLOGY: Phyllite

Phyllitic Limestone Feldspar Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and meta-sediments generally strike northeast and dip 10 to 40 degrees north-

west. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous hyllite streety banded galacticate rocks limestone and guartaits. phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists and greenstone (EBG). (Preto, et al in preparation).

The Big Ben showing, 500 metres south of Lucky Coon (082M 012),

is underlain by graphitic and chloritic phyllites cut by several rhyolite dykes.

Mineralization, consisting of galena, sphalerite and chalcopyrite, occurs along a shear zone within quartz veins measuring 2.5 to 56 centimetres in width. The shear zone, 15 metres long and 30 centimetres wide strikes northeast and dips 65 degrees west.

**BIBLIOGRAPHY** 

EMPR ASS RPT 1629, 1936, 2331, 7019, 9915, \*10665 (same as 11022), \*11521, \*11933, \*13142, \*16024 EMPR EXPL \*1982-108-109; 1984-113; 1985-C100

GSC MAP 48-1963; 5320G

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 012

NATIONAL MINERAL INVENTORY: 082M4 Pb1

NAME(S): LUCKY COON (L. 5231), MCGILLVRAY, GOLDEN EAGLE (L.5230), WHITE SWAN (L.5229), EAST LEMHI, LAST CHANCE (L.5232)

STATUS: Past Producer

REGIONS: British Columbia NTS MAP: 082M04E

Open Pit

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

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UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 04 30 N LONGITUDE: 119 36 34 W ELEVATION: 1800 Metres

NORTHING: 5661405 EASTING: 317205

LOCATION ACCURACY: Within 500M

COMMENTS: Northeast open pit, Fig. 2a (Assessment Report 11521); southwest open

Zinc

pit is 250 metres from the northeast pit.

COMMODITIES: Lead Cadmium Silver

Gold

Arsenic

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Argentite

055/40N

ASSOCIATED: Quartz

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

Pyrrhotite

Chalcopyrite

Tetrahedrite

Arsenopyrite

DEPOSIT CHARACTER: Stratiform

Massive CLASSIFICATION: Replacement

Sedimentary Syngenetic Industrial Min.

TYPE: E14 Se SHAPE: Cylindrical Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Fólded

DIMENSION: 1200 x 0002

Metres

STRIKE/DIP: COMMENTS: General strike of strata; approximate size of deposit, traced inter-

mittently.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Paleozoic

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

LITHOLOGY: Phyllite

Quartz Sericite Schist

Phyllitic Limestone Gréenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Adams Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and meta-sediments generally strike northeast and dip 10 to 40 degrees north-

west. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia  $\hbox{synform.} \quad \hbox{The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous}$ phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists

and greenstone (EBG). (Preto, et al in preparation). The mineralization occurs as layers, lenses and pods of semimassive to massive sulphides, generally within a siliceous gangue. The sulphide horizons are generally well banded and conformable to the schistosity and where observed, to the bedding. Intense deformation of the rocks has caused discontinuity and marked variability in the widths of the sulphide horizons which tend to thicken in the hinge zones of folds.

The Lucky Coon deposit is exposed intermittently over a strike length of 1200 metres in a northeast trend. Banded and massive sulphides include arsenopyrite, pyrite, sphalerite, galena, argentite, chalcopyrite and minor tetrahedrite within silicified limy phyllites,

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

quartz-sericite schist and greenstone schist. Mineralization widths are generally less than 0.5 metres but may occur up to 2 metres. A 30 centimetre sample gave 0.7 grams per tonne gold, 583 grams per tonne silver, 14.5 per cent lead and 24 per cent zinc.

The Elsie deposit (082M 213) is thought to be a continuation of the Lucky Coon deposit however, it does not appear to be on the same stratigraphic level. Inferred reserves have been noted as 68,033 tonnes of 'high-grade' ore (Canadian Mines Handbook 1972-1973, p. 136 (Giant Metallics Mines Ltd.)).

#### **BIBLIOGRAPHY**

EM FIELDWORK 1998, pp. 223-246 EM OF 2000-22 EMPR AR 1927-199,200; 1928-210; 1930-184-187; 1931-106; \*1936-D40-43; 1949-132; 1956-A49 EMPR ASS RPT 1936, 7019, 9915, \*10665 (same as 11022), \*11521, \*13142, \*13381, \*13542, \*16024
EMPR EXPL 1977-E91; 1982-108-109; 1983-156; 1984-113; 1985-C100 \*10665 (same as 11022), \*11521, \*11933, EMPR FIELDWORK \*1978, pp. 31-35; 1979, pp. 28-36; 1984, pp. 67-76 EMPR INF CIRC 1985-1, pp. 24, 36; 1986-1, pp. 41, 51 EMPR MAP \*56 EMPR MINING \*1975-1980, pp. 54, 62 EMR MP CORPFILE (Norlex Mines Limited, East Lehmi Mining Company, Consolidated Giant Metallics Ltd., Adams Silver Resources Inc.) GSC MAP 48-1963; 5320G GSC MAF 10 1112 GSC OF \*637 CMH 1972-73, p. 136 GCNL Oct 29, Dec 12, 1984; June 13, #165, #199, 1985; #228, 1987 IPDM Nov-Dec 1985 N MINER Nov 1, 1984 NAGMIN Nov 9, 1984, p. 1; June 7, 1985, p. 14; Nov 19, 1985 Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau-Clearwater Area Hainsworth, W.G. (1973): Report on the Lucky Coon Claims, Aug 1973 in Consolidated Giant Metallics Ltd. Statement of Material Facts, October 17, 1973 Placer Dome File Preto, V.A. and Schiarizza, P. (1985): \*Geology and Mineral Deposits of the Adams Plateau-Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 012

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 013

NAME(S): KING TUT, PETE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 05 00 N LONGITUDE: 119 35 14 W ELEVATION: 1800 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: From description; symbol Map 2 (Assessment Report 7019); symbol

Sheet No. 1 (Assessment Report 10665).

COMMODITIES: Silver Gold I ead 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Arsenopyrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Disseminated Massive

CLASSIFICATION: Replacement Syngenetic

TYPE: E14 Se SHAPE: Cylindrical Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Phyllite

Schist Porphyritic Dike Phyllitic Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1930 CATEGORY: Assay/analysis

> SAMPLE TYPE: Rock **GRADE**

COMMODITY Silver 1118.0000 Grams per tonne 2.7000 Gold Grams per tonne 28.8000 Per cent Lead

COMMENTS: The sample width is 0.9 metres. REFERENCE: Annual Report 1930, page 186.

Zinc

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

8.4000

Per cent

The King Tut occurrence lies about 900 metres northeast of Lucky Coon (082M 012). The lens strikes 55 degrees intermittently for 1200 metres. Mineralization consists of galena, pyrite and sphalerite across a one metre siliceous band within dark phyllites. A 60 centimetre sample assayed 295 grams per tonne silver, 7.6 per cent lead and 21.5 per cent zinc.

One hundred and fifty metres to the northeast a 60 to 75 centimetre silicified band within chloritic schist contains pyrite, arseno-

pyite, galena and sphalerite. A 90 centimetre sample assayed 2.7 grams per tonne gold, 1118 grams per tonne silver, 28.8 per cent lead

MINFILE NUMBER: 082M 013

PAGE:

NATIONAL MINERAL INVENTORY: 082M4 Pb5

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5662276 EASTING: 318794

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

and 8.4 per cent zinc.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, pp. 223-246

EMPR AR \*1930-185-187; 1931-106; 1932-A146; 1933-A194; 1934-D28; 
 \*1936-D40,D43

EMPR ASS RPT 6513, 7019, 9915, 10665 (same as 11022), 13142

EMPR EXPL 1977-E89; 1978-E103; 1979-E110; 1982-108-109; 1983-155- 
 156; 1985-C100

EMPR FIELDWORK 1978, pp. 31-35; 1979, pp. 28-36; \*1984, pp. 67-76

EMPR MAP \*56

EMR MP CORPFILE (Norlex Mines Ltd., East Lehmi Mining Co.)

GSC MAP 48-1963; 5320G

GSC OF \*637

Dickie, G.J., Preto, V.A. and Schiarizza, P. \*(in preparation 1986): 
 Mineral Deposits of the Adams Plateau-Clearwater Area

Tough, T.R. (1982): Geological Report on the Adams Plateau Property for Adams Silver Resources Inc., Feb. 1982; (unpublished?) 
 Location unknown

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 013

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 014

NATIONAL MINERAL INVENTORY: 082M4 Pb6

NAME(S): SPEEDWELL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP: LATITUDE: 51 05 40 N

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

593

LONGITUDE: 119 34 44 W ELEVATION: 1500 Metres

NORTHING: 5663491 EASTING: 319421

LOCATION ACCURACY: Within 1 KM COMMENTS: From descriptions.

> COMMODITIES: Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite Pyrite

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Schist

Phyllite

Phýllitic Limestone Porphyritic Dike Silica Phyllite Greenstone Calcareous Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1932 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY **GRADE** Silver 549,0000 Grams per tonne 17.0000 Per cent I ead Per cent 10.0000

7inc COMMENTS: These values represent an average of several samples.

REFERENCE: Annual Report 1932, page A146.

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists

and greenstone (EBG). (Preto, et al in preparation).

The Speedwell occurrence lies 1.6 kilometres northeast of the the King Tut (082M 013) and is underlain by quartzose schist and phyllite metasediments intruded by hornblende diorite.

Mineralized bands, near an andesite dyke, occur across 6 metres within the metasediments. The widest band is 20 centimetres and consists of pyrite, galena and sphalerite. A sample assayed 549 grams per tonne silver, 17 per cent lead and 10 per cent zinc.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1930-A186,A187; 1931-A106; \*1932-A146; \*1934-D28; \*1936-D40,D43
EMPR ASS RPT 7019, 9915, 13142
EMPR EXPL 1982-108-109; 1983-155-156; 1984-113; 1985-C100
EMPR MAP \*56

EMPR MAP \*56 EMR MP CORPFILE (Norlex Mines Ltd., East Lehmi Mining Co.) GSC MAP 48-1963; 5320G GSC OF 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 014

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 015

NATIONAL MINERAL INVENTORY: 082M4 Pb7

PAGE:

REPORT: RGEN0100

595

NAME(S): **DONNAMORE**, LUND, SILVERTIP

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5664081 EASTING: 320220 LATITUDE: 51 06 00 N

LONGITUDE: 119 34 04 W ELEVATION: 1200 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Descriptions, symbol Map 2 (Assessment Report 7019).

COMMODITIES: Lead 7inc Silver Gold

**MINERALS** 

**DEPOSIT** 

Sphalerite Pyrite

SIGNIFICANT: Galena ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

CHARACTER: Stratiform

CLASSIFICATION: Replacement TYPE: E14 Sedir Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Argillite

Quartzite Phyllite Porphyritic Dike Limestone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northeast west. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists

and greenstone (EBG). (Preto, et al in preparation).

The Donnamore occurrence lies 4.8 kilometres northeast of Lucky
Coon (082M 012). A strongly silicified 15 to 60 centimetre band containing pyrite, galena and sphalerite occurs within argillaceous-quartzite rocks. A 20 centimetre sample assayed 1.4 grams per tonne gold, 79 grams per tonne silver, 27 per cent lead and 12 per cent

zinc.

**BIBLIOGRAPHY** 

EMPR AR \*1934-D28; \*1936-D40,D43 EMPR ASS RPT \*7019, 9915, 13142

EMPR EXPL 1982-108-109; 1983-155-156; 1985-C100 EMPR MAP \*56

GSC MAP 48-1963; 5320G

GSC OF \*637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 016 NATIONAL MINERAL INVENTORY: 082M4 Ag2

NAME(S): MOSQUITO KING, GARNET, PAT, E. A1. A2

PATCH, D, S, HII TEC

STATUS: Past Producer Underground MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M04E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 02 50 N NORTHING: 5658066 EASTING: 324299

LONGITUDE: 119 30 24 W ELEVATION: 1700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of main showings, Map 6 (Assessment Report 11264).

COMMODITIES: Silver Gold 7inc Copper I ead

Cadmium

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrrhotite **Pyrite** Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Disseminated Massive

CLASSIFICATION: Sedimentary Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag SHAPE: Cylindrical

MODIFIER: Fólded

DIMENSION: STRIKE/DIP: 030/20N TREND/PLUNGE:

COMMENTS: Discontinuous and variable width from 0.2 to 5.5 metres.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u>

Paleozoic Undefined Group **Eagle Bay** 

LITHOLOGY: Phyllite

Calc-silicate Limestone Quartzite Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: MOSQUITO KING REPORT ON: Y

> CATEGORY: Indicated YFAR: 1985

QUANTITY: 33744 Tonnes

COMMODITY Silver **GRADE** 

13.3000 Grams per tonne 0.8300 Lead Per cent Zinc 2.0900 Per cent

COMMENTS: Drill indicated. An additional 4716 tonnes grading 19.8 grams per tonne silver, 2.6 per cent zinc, and 1.38 per cent lead.

REFERENCE: Statement of Material Facts 28/01/85, Killick Gold Company Ltd.

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites,  $\,$ phyllitic limestone and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists and greenstone (EBG). (Preto, et al in preparation).

Mosquito King comprises a number of thin, laterally extensive massive pyrrhotite layers, with locally high precious metal content in a highly deformed and metamorphosed calc silicate gneiss succession.

Potassic and siliceous alteration are reflected in silicified sericitic zones in the immediate hanging wall.

The mineralization occurs as layers, lenses and pods of semimassive to massive sulphides, generally within a siliceous gangue. The dominant sulphides are pyrite, galena, sphalerite, chalcopyrite and pyrrhotite. The sulphide horizons are generally well banded and conformable to the schistosity and where observed, to the bedding. Intense deformation of the rocks has caused discontinuity and marked variability in the widths of the sulphide horizons which tend to thicken in the hinge zones of folds.

The Mosquito  $\bar{K}$ ing showings occur as discontinuous stringers, lenses and disseminations over an area about 1000 by 500 metres. Mineralized widths vary from less than a metre to over 6 metres.

Drill indicated reserves are 33,744 tonnes grading 13.3 grams per tonne silver, 0.83 per cent lead, and 2.09 per cent zinc; an additional 4716 tonnes grading 19.8 grams per tonne silver, 2.6 per cent zinc, and 1.38 per cent lead (Statement of Material Facts 28/01/85, Killick Gold Company Ltd.)

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EMR MIN BULL MR 223 B.C. 71
EMR MP CORPFILE (Consolidated Giant Metallics Ltd.; Orell Resources Ltd.) GSC MAP 48-1963; 5320G GSC OF 637 Dickie, G.J., Preto, V.A. and Schiarizza, P. (\*in preparation 1986):
Mineral Deposits of the Adams Plateau-Clearwater Area
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Aug 14, Sept 21, 1981; Jan 13, Oct 21, 1982; Jan 5, June 14,
Nov 28, 1983; \*Feb 15, Oct 9, 1985
Hainsworth, W.G. (1973): Report on Giant Metallics Mines, Adams
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 2003/03/04 REVISED BY: MPS FIELD CHECK: N

MINFILE NUMBER: 082M 016

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 017 NATIONAL MINERAL INVENTORY: 082M4 Pb2

NAME(S): <u>EX 1</u>, SPAR, ELK, SPAR 1, SPAR 2, MP,

WESTVILLE

Open Pit MINING DIVISION: Kamloops

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082M04E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 03 40 N NORTHING: 5659704

LONGITUDE: 119 32 44 W ELEVATION: 1640 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of showings, Map 6 (Assessment Report 11264). Near headwaters

of the east branch of Nik Wik Waia Creek.

COMMODITIES: Lead Silver 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Sphalerite Magnetite Galena Pyrite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz

ALTERATION: Epidote
ALTERATION TYPE: Silicific'n **Epidote** 

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform Massive Concordant

CLASSIFICATION: Sedimentary

TYPE: E14 Se SHAPE: Cylindrical MODIFIER: Folded Sedimentary exhalative Zn-Pb-Ag

DIMENSION: 0365 x 0003 Metres STRIKE/DIP: 040/30N TREND/PLUNGE: COMMENTS: Argillite beds.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group Eagle Bay** 

LITHOLOGY: Phyllite

Quartzite Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: Y ORE ZONE: SPAR

> CATEGORY: QUANTITY: Indicated YEAR: 1985

11157 Tonnes **COMMODITY GRADE** 

Silver 187.6000 10.5600 Grams per tonne Per cent I ead Zinc 4.8300 Per cent

COMMENTS: Width is 3.35 metres, length unknown.

REFERENCE: George Cross Newsletter No.33 (Feb. 15), 1985.

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and meta-sediments generally strike northeast and dip 10 to 40 degrees north-west. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

The Spar massive sulphide layer trends northeast and dips 30 to 40 degrees to the northwest. The layer can be traced approximately 600 metres to the north where it is folded and truncated by a fault. The thickness of the layer is structurally controlled, and it is the less obvious phase 2 structures that control thickness, and not the west plunging phase 3 structures.

Mineralization comprises sulphides of silver, lead and zinc

PAGE:

EASTING: 321626

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous phyllite, streaky banded calc-silicate rock, limestone and quartzite. The metasediments are stratigraphically underlain by chloritic schists and greenstone (EBG). (Preto, et al in preparation). The succession that hosts these layers are lower in sequence than those at Mosquite King (082M 016).

The mineralization occurs as layers, lenses and pods of semi-massive to massive sulphides, generally within a siliceous gangue. The dominant sulphides are pyrite, galena, sphalerite, chalcopyrite and pyrrhotite. The sulphide horizons are generally well banded and conformable to the schistosity and where observed, to the bedding. Intense deformation of the rocks has caused discontinuity and marked variability in the widths of the sulphide horizons which tend to thicken in the hinge zones of folds.

The Spar mineralization occurs at the crests of several super-imposed monoclinal folds averaging 3 metres thick along a strike length of 365 metres in a northeast trend. The massive sulphide mineralization is localized in the crests of drag-folds with axis south 60 degrees west, flat dip and plunge at 10 degrees southwest. The central portion of the zone is primarily massive galena bordered by a "fringe" zone of galena, sphalerite, pyrite and pyrrhotite.

Spar was first discovered in 1927. In the 1960's Giant Metallics mapped the area and undertook some trenching and drilling. The property was acquired by Killick Gold in 1974. In 1976 Hesca Resources

drilled 8 holes. It was optioned to Craigmont Mines in 1977 and 1978, Brinex Ltd. in 1980 and Noranda Exploration in 1984 and 1985.

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GSC OF 637
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    of the Adams Plateau-Clearwater Region; GSA Cordilleran Section
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 2003/03/03 REVISED BY: MPS FIELD CHECK: N

MINFILE NUMBER: 082M 017

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 018

NATIONAL MINERAL INVENTORY: 082M4 Pb2

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5658811 EASTING: 320621

REPORT: RGEN0100

600

NAME(S): BEL, OCT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 03 10 N

LONGITUDE: 119 33 34 W ELEVATION: 1550 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole, location map (Assessment Report 7693).

COMMODITIES: Zinc. Silver I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Calcite Galena Pyrrhotite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Disseminated

CLASSIFICATION: Replacement

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Limestone

Argillite Tuff Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis YEAR: 1979 CATEGORY:

> SAMPLE TYPE: Drill Core

COMMODITY **GRADE** 

Silver 5.8000 Grams per tonne 0.2200 Per cent I ead 0.2200 Per cent 7inc

REFERENCE: Assessment Report 7693.

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestone and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends. A major fault has a northerly trend across the area.

A diamond drill hole intersected disseminated pyrrhotite, galena and sphalerite within limestone, argillite and tuff sequences. A sample in graphitic argillite assayed 0.22 per cent zinc, 0.22 per cent lead and 5.8 grams per tonne silver (Assessment Report 7693). A nearby surface showing consists of a 10 centimetre wide zone of

sphalerite within calcareous argillite.

**BIBLIOGRAPHY** 

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EMPR MAP 56

GSC MAP 48-1963; 5320G

GSC OF 637

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/04/15 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 018

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 019

NATIONAL MINERAL INVENTORY: 082M4 Pb4

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5658232 EASTING: 310855

PAGE:

REPORT: RGEN0100

602

NAME(S): **ELMOORE**, WALLACE, LINCOLN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 02 40 N LONGITUDE: 119 41 54 W ELEVATION: 1025 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, plate 3 (Assessment Report 7040).

COMMODITIES: Lead Silver 7inc Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n Pyrite Sphalerite Chalcopyrite Chlorite Epidote Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: 105 Polym Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular

MODIFIER: Sheared DIMENSION: 0090 x 0060 x 0002 Metres STRIKE/DIP: 170/70E TREND/PLUNGE:

COMMENTS: Quartz vein dimension; shear zone general attitude.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Greenschist

Greenstone Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1966 SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver 75.4000 Grams per tonne 2.4200 Per cent Copper 1.6900 Per cent Lead Per cent Zinc 2.3800

REFERENCE: Assessment Report 904.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian to Mississippian age Eagle Bay Formation rocks. The rocks consist of greenstones, greenschist and chlorite schists with a northeast strike and a 35 to 45 degree northwest dip.

Mineralization occurs within quartz veins along a highly brecciated shear zone striking north to north-northeast and dipping from 60 to 75 degrees east. The shear varies from a few centimetres to several metres wide and is intermittently mineralized, along the footwall, with pyrite, galena, sphalerite and chalcopyrite. The mineralized quartz vein measures 15 centimetres to 4 metres wide, 90 metres long and about 60 metres deep. A 3.4 metre wide sample assayed 75.4 grams per tonne silver, 2.42 per cent copper, 2.38 per cent zinc and 1.69 per cent lead.

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RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/22 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 019

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 020 NATIONAL MINERAL INVENTORY: 082M4 Pb3

NAME(S): TWIN MOUNTAIN, STAR, MAX, HOPE

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082M04W

BC MAP:

LATITUDE: 51 07 45 N
LONGITUDE: 119 46 41 W
ELEVATION: 1600 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: West adit, Fig. 3 (Assessment Report 9882).

COMMODITIES: Lead Silver 7inc Copper

Barite

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite Sphalerite Pyrite Barite Cuprite ASSOCIATED: Quartz Malachite Azurite **Bornite** Barite Dolomite Siderite Calcite Cuprite Azurite

ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Concordant
CLASSIFICATION: Volcanogenic Industrial Min.
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn Disseminated Massive

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 150/48E TREND/PLUNGE:

COMMENTS: Typical foliation of schists.

HOST ROCK
DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group **Eagle Bay** 

LITHOLOGY: Quartz Sericite Schist

Chlorite Schist Greenschist Limestone Dolomite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1981 Assay/analysis

SAMPLE TYPE: Rock

**COMMODITY GRADE** Silver 8.9000 Grams per tonne Gold 0.1700 Grams per tonne Copper 0.1800 Per cent Leàd 0.9000 Per cent Zinc 2.1500 Per cent

REFERENCE: Assessment Report 9882.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian or older rocks of the Eagle Bay Formation consisting of calcareous chlorite-sericite-quartz schist within unit EBG (Map 56). The schists were derived largely from mafic to intermediate volcanic and volcaniclastic rocks. The metavolcanics contain several thin layers of limestone and dolomite, as well as remnant pillow basalt structures. The Tshinakin limestone member lies to the northeast of the property. Mineralization occurs within a conformable northeast dipping zone of grey pyritic and calcareous chlorite-sericite-quartz schists

enclosed within darker green chlorite schists of unit EBG (Map 56). The zone is several metres to over 10 metres wide and has been traced

MINFILE NUMBER: 082M 020

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

Gold

NORTHING: 5667859 EASTING: 305623

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

intermittently over a strike length of over 4 kilometres (Assessment Report 8942).

Galena-sphalerite-pyrite-chalcopyrite mineralization occurs within carbonate-quartz-barite lenses concordant to the schistosity. The carbonate is mainly dolomite with lesser calcite and siderite. The lenses range up to several metres thick and contain disseminations to massive pods, up to 30 centimetres wide, of galena and sphalerite.

A subjective average value of eleven samples considered to be

A subjective average value of eleven samples considered to be representative of the mineralized zone is 0.90 per cent lead, 2.15 per cent zinc, 8.9 grams per tonne silver, 0.18 per cent copper and 0.17 grams per tonne gold (Assessment Report 9882).

A second parallel zone of mineralization occurs 500 metres west of the main zone.

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EMPR MAP \*56
EMPR OF 1999-2
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GSC OF 637
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DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 021

NATIONAL MINERAL INVENTORY: 082M12 U1

NAME(S): **REXSPAR**, BIRCH ISLAND, CLEARWATER, BLACK DIAMOND, A, B,

BD, F

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 33 42 N LONGITUDE: 119 54 41 W

ELEVATION: 1200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit to BD zone. See Spar (082M 007) for nearby fluorite zone.

COMMODITIES: Uranium

7inc

Rutile

Thorium Molybdenum Fluorite Copper

Metatorbernite

Rare Earths Tungsten

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5716305

EASTING: 298205

**MINERALS** 

SIGNIFICANT: Uraninite Thorite

Uranothorite Fluorphlogopite Galena

Torbernite Pyrite Sphalerite

Bastnaesite Monazite

Calcite

Thorianite

Molybdenite

COMMENTS: Also chalcopyrite and scheelite.

ASSOCIATED: Pyrite Feldspar Mica Celestite Siderite Dolomite

COMMENTS: Also includes barite and quartz. ALTERATION: Sericite Albite

ALTERATION TYPE: Deuteric
MINERALIZATION AGE: Middle Triassic
ISOTOPIC AGE: 236 Ma

Sericitic

Metres

Disseminated

Carbonate

Fluorite

Silicific'n

Industrial Min.

Pyrite

Lead

PAGE:

REPORT: RGEN0100

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DATING METHOD: Potassium/Argon MATERIAL DATED: Fluorphlogopite

DEPOSIT

CHARACTER: Stratabound

CLASSIFICATION: Volcanogenic Syngenetic

TYPE: D06 Volcanic-hosted U

SHAPE: Tabular MODIFIER: Fractured

DIMENSION: 140 x 90

x 15 COMMENTS: BD zone.

STRIKE/DIP: 030/25W

Replacement

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic

GROUP Undefined Group

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Trachyte

Alkali Feldspar Porphyry Lithic Tuff Porphyry Breccia Breccia Pyritic Schist

HOSTROCK COMMENTS: Unit EBFt of the Eagle Bay Assemblage (Schiarizza and Preto, 1987).

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

INVENTORY

ORE ZONE: B

REPORT ON: Y

YEAR: 1977

CATEGORY: QUANTITY:

Measured 164291 Tonnes

COMMODITY Uranium

**GRADE** 

Per cent

0.0630 COMMENTS: Cutoff grade is 0.021 per cent uranium and a stripping ratio of 2:1.

REFERENCE: Property File - Kilborn Engineering, 1977.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE: A REPORT ON: Y

> YEAR: 1977 CATEGORY: Measured QUANTITY: 490968 Tonnes

COMMODITY GRADE

<u>Uranium</u> 0.0720 Per cent

COMMENTS: Cutoff grade is 0.021 per cent uranium and a stripping ratio of 2:1. REFERENCE: Property File - Kilborn Engineering, 1977.

ORE ZONE: REXSPAR REPORT ON: Y

> CATEGORY: YEAR: 1977 Measured

> 1114385 Tonnes QUANTITY:

COMMODITY **GRADE** Uranium 0.0660 Per cent

COMMENTS: Cutoff grade is 0.021 per cent uranium and a stripping ratio of 2:1. REFERENCE: Property File - Kilborn Engineering, 1977.

ORE ZONE: BD REPORT ON: Y

> CATEGORY: YEAR: 1977 Measured

QUANTITY: 459126 Tonnes COMMODITY

**GRADE** Per cent Uranium 0.0600

COMMENTS: Cutoff grade is 0.021 per cent uranium and a stripping ratio of 2:1. REFERENCE: Property File - Kilborn Engineering, 1977.

#### CAPSULE GEOLOGY

The area is underlain by northeast striking, moderately northwest dipping felsic to intermediate metavolcanics and minor interlayered metasediments of the Lower Cambrian and older(?) to Mississippian Eagle Bay Formation. The rocks hosting the Rexspar uranium deposits consist of a deformed and metamorphosed pile of alkali feldspar porphyry, porphyry breccia, lithic tuff and breccia of trachytic composition, with occasional pyritic schist of rhyolitic composition. Rocks of this "trachyte" unit are light grey in colour and stained rusty brown or yellow due to widespread pyrite. They may be massive, brecciated, or markedly schistose and lineated. Fractured and sheared crystals of potassium feldspar and albitic plagioclase, and rock chips of trachytic composition occur in a fine-grained groundmass of feldspar and sericite. The trachyte unit, which is 15 to 120 metres thick, is apparently a mixture of intrusive porphyry and its extrusive equivalent tuffs and tuff breccias. It i likely related to a volcanic centre or vent active during the Middle Devonian.

The above unit is structurally underlain by quartz-sericite schist, chlorite schist and dacitic and andesitic volcanic breccia,  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ with interlayers of grey phyllite, slate, chert and sericitic quartzite.

The prominent schistosity, which is parallel to the compositional layering and was probably produced during the first phase deformation, is deformed by tight, recumbent, east trending second-phase folds. These structures are refolded by upright third-phase, northerly to northeasterly trending structures. Subsequent late kinks and prominent north trending tension fractures are commonly followed by post-tectonic felsic and mafic dykes of Cretaceous or later age. High-angle, northerly trending faults sharply control the distribution of the trachyte unit.

Uranium and thorium mineralization occur exclusively in the trachyte unit and mainly in the dark-coloured, upper part of the unit, which shows extensive replacement by silver-grey fluorphlogopite and pyrite, with lesser fluorite and calcite. replacement zones, a few centimetres to several metres in size, generally occur as coarse-grained segregations, which show conformable and crosscutting relationships and deformation similar to the surrounding rocks. The best grade material occurs in a series of discontinuous, conformable tabular masses or lenses, generally less than 20 metres thick and up to 140 metres long.

The principal radioactive minerals include uraninite, uranothorite, torbenite, metatorbenite, thorianite and uranium thorite. They occur as tiny discrete grains within fluorphlogopite flakes, and cause pleochloric haloes, or are scattered in the uranium place of the scattered in the principal or and the results of the place of the principal or and the results of the principal or and the results of the place of the principal or and the results of the principal or and the results of the place of the principal or and the results of the principal or and the principal or an analysis of the principal or an area of the principal or pyrite-fluorphlogopite matrix. Uranium and thorium also occur in monazite and niobium ilmenorutile. Rare earths, mainly cerium and lanthanium, occur in bastnaesite and monazite. Other minerals include celestite, galena, sphalerite, chalcopyrite, molybdenite, scheelite, siderite, dolomite, barite and quartz.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The geological setting and mineralogy suggest that the mineralized zones were formed by deuteric, volatile rich fluids during a late-stage in the formation of the trachyte unit. The considerable amount of thorium and widespread rare earths associated with the uranium support its origin as primary rather than secondary

with the uranium support its origin as primary rather than secondary. A potassium/argon age of 236 Ma +/- 8 Ma for fluorphlogopite from one of the mineralized zones is considered a minimum age and used cautiously because of some analytical problems. This Middle Triassic age suggests the mineralization is syngenetic with the host rocks, that is in no way related to the nearby Cretaceous Baldy batholith.

Three main tabular zones of radioactivity occur parallel to the surfaces of the alkali feldspar porphyry and have irregular terminations above and below.

The BD or Black Diamond zone is a flat-dipping lens with a strike length of 140 metres, dip-slope length of 90 metres and an average thickness of 15 metres. A 1.8 metre sample across part of the zone assayed 0.09 per cent uranium, 0.14 per cent thorium oxide, 0.025 per cent niobium and trace yttrium and lanthanum (Minister of Mines Annual Report 1954). The zone lies along the upper surface of the porphyry and the radioactivity appears to be mainly associated with uranothorite, associated with rutile.

The A zone, 600 metres east-northeast of the BD zone, is a

The A zone, 600 metres east-northeast of the BD zone, is a shallow dipping (12 degrees) irregular lens averaging 15 metres thick which has been traced along strike for about 60 metres. It pinches out at a slope depth of about 60 metres and appears to occur at a lower horizon in the porphyry mass. A 1.8 metre sample across the zone assayed 0.07 per cent uranium, 0.06 per cent thorium oxide, 0.015 per cent niobium and trace yttrium, lanthanum and cerium (Minister of Mines Annual Report 1954). The principal radioactive mineral is uraninite associated with rutile.

mineral is uraninite associated with rutile.

The B zone, 360 metres north-northeast of the BD zone, averages 8 metres wide, strikes about 60 metres and has a dip-slope length of about 75 metres.

Ore reserves for the three zones outlined by polygons within the proposed pit limits as defined by a cutoff grade of 0.021 per cent uranium are 1,114,385 tonnes grading 0.066 per cent uranium with an overall stripping ratio of 12:1 (Property File - Kilborn Engineering, 1977). The ore zones also grade 5 to 10 per cent fluorite (Property File - Wright Engineers, 1975).

Smaller zones occurring in relation to the BD zone include the F zone, 450 metres to the west, the H zone, 600 metres to the north-northeast, and the G zone (082M 022), 1420 metres to the northeast. The Fluorite zone (082M 007) lies about 550 metres northeast of the BD zone and contains no uranium reserves.

In 1926 Smuggler Hill Development Company was formed to explore and develop silver and lead deposits (Smuggler, 082M 023 and Foghorn, 082M 029), which were originally staked in 1918 by A.G. McDonald. The results of this early exploration activity were reported by H.G. Nicol, 1926 and D.B. Starrett, 1930. A manganese occurrence was examined by W. Elliot and N.C. Stines in 1929 (Smuggler Manganese, 082M 158). Further geological examinations of fluorite occurrences were reported on by D.B. Starrett, R.P.D. Graham and M.R. Wilson in the early 1940's (Spar, 082M 007). The ground was relocated in 1942 by Ole Johnson and the B.C. Fluospar Syndicate developed the fluorite deposit in 1943. The property was leased by A.E. Sjoquist and optioned in 1951 by Technical Mine Consultants who conducted an extensive exploration and development program for Rexspar Uranium and Metals Mining Co. Ltd.

Metals Mining Co. Ltd.

The presence of uranium mineralization became known in late 1949. Dr. F.R. Joubin studied and reported on the mineral occurrences during 1950 and 1951. Rexspar Uranium, later reorganized as Consolidated Rexspar Minerals and Chemicals Ltd., acquired the rights to mineral claims incorporating the uranium bearing zones and delineated three uranium deposits in the late 1950's. However, the deposits were not brought into production. Denison Mines Ltd. resampled and undertook an economic feasibility study in 1969. Exploration programs and geological reviews were conducted in 1969-1972, directed mainly at determining fluorite reserves. Additional diamond drilling of the uranium bearing zones was carried out in 1976 and the drill core was used in a metallurgical test program undertaken to establish process flowsheets.

The Fluorite deposit and the three uranium deposits have been outlined by fairly close spaced diamond drilling and by surface sampling. A total of 368 surface and underground holes have been drilled from 1943 to 1976, for a total of approximately 17,280 metres. Of these, 121 holes were on the "A" deposit, 81 on the "B" deposit, 125 on the "BD" deposit and most of the others on the fluorite deposit. Drifts, cross cuts and raises for a total of 664

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

metres were driven in the "A" and "BD" uranium zones. The property has been prospected several times over the years. Geological mapping, radiometric surveying, soil sampling and metallurgical testing have also been performed. Work conducted by Placer Development Ltd. during October, 1981, included ground magnetometer and VLF - EM surveys.

In 1987, Consolidated Rexspar changed its name to Conrex Corporation and sold the property in 1988 to Gold Ventures Limited. American Bullion Minerals Ltd. attempted to get a permit to do exploration on the main fluorite zone in the early 1990's.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N PREVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 022

NATIONAL MINERAL INVENTORY:

Fluorite

NAME(S): **G ZONE**, REXSPAR

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

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610

LATITUDE: 51 34 20 N

NORTHING: 5717448 EASTING: 299002

LONGITUDE: 119 54 02 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: G zone (Property File -Report and Map by P. Pisani, 1970, in Rexspar - 082M 021).

COMMODITIES: Molybdenum Uranium Thorium

**MINERALS** 

SIGNIFICANT: Molybdenite Uraninite Uranothorite Fluorite Pyrite

ASSOCIATED: Mica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic TYPE: D06 Volcan

Syngenetic Industrial Min.

Volcanic-hosted U

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Devonian-Mississipp. Undefined Group Eagle Bay

LITHOLOGY: Feldspar Porphyry Lithic Tuff

Breccia Trachyte Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: DRILLHOLE

> CATEGORY: Assay/analysis YEAR: 1970 SAMPLE TYPE: Drill Core

COMMODITY Fluorite **GRADE** 9.2000 Per cent Per cent Molvbdenum 0.2300 0.0160 Per cent

Uranium REFERENCE: Property File, Report by P. Pisani, 1970.

CAPSULE GEOLOGY

The area is underlain by a "trachytic" unit of alkali-feldspar porphyry, lithic tuff, tuff breccia and pyritic schist of Unit EBFt of the Devonian to Mississippian part of the Eagle Bay Assemblage. The trachytic unit is structurally underlain by quartz-sericite schist, chlorite schist and interlayered metasediments. High-angle northerly trending faults sharply control the distribution of the trachyte

unit.

Molybdenite, fluorite, uranium and thorium minerals, likely uraninite and uranothorite, occur in the trachytic unit mainly associated with pyrite and mica. Drilling intersected 0.230 per cent MoS2 over 6 metres in one hole and 0.014 per cent uranium over 6.7 metres and 9.2 per cent CaF2 over 3 metres in a hole 100 metres to the northeast. A further 400 metres to the northeast a hole intersected 0.16 per cent Tho2 over 6 metres and another hole intersected 0.014 per cent uranium over 17.6 metres (Persected 1.014 per cent uranium ove intersected 0.014 per cent uranium over 17.6 metres (Property File, Report by P. Pisani, 1970). See Rexspar (082M 021).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR PF (RPT and MAP by P. Pisani, 1970; see Rexspar (082M 021))
GSC EC GEOL #16
GSC OF 551; 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/16 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 022

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 023 NATIONAL MINERAL INVENTORY: 082M12 Pb2

NAME(S): **SMUGGLER**, REXSPAR

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 34 10 N NORTHING: 5717172 LONGITUDE: 119 54 44 W ELEVATION: 1160 Metres EASTING: 298182

LOCATION ACCURACY: Within 500M

COMMENTS: Smuggler No. 1 Claim (L.5389).

COMMODITIES: Lead Zinc Gold Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Pyrrhotite

ALTERATION: Limonite MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Vein Disseminated Hydrothermal

CLASSIFICATION: Epigenetic TYPE: I05 Pc Polymetallic veins Aģ-Pb-Zn±Au G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Devonian Undefined Group Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Chlorite Schist Quartzite Phyllite Slate Chert

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: VEIN

> CATEGORY: Assay/analysis YEAR: 1927 SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 82.3000 Grams per tonne 7.4000 Lead Per cent Per cent 1.0000

Zinc COMMENTS: Trace gold.

REFERENCE: Annual Report 1927.

**CAPSULE GEOLOGY** 

Underlying rocks are quartz-sericite schist and chlorite schist with interlayers of phyllite, slate, chert and sericitic quartzite of the Devonian part of the Eagle Bay Formation. The rocks dip shallowly to the north.

Quartz veins and fractures contain minor galena and pyrite. A 35 centimetre sample across a seam assayed 7.4 per cent lead, 1 per cent zinc, 82.3 grams per tonne silver and trace gold (Annual Report 1927).

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EMR MP CORPFILE (Consolidated Rexspar Minerals & Chemicals Limited)

GSC MAP 48-1963

GSC OF 637

MINFILE NUMBER: 082M 023

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/16 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 023

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 024

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5651520 EASTING: 402286

REPORT: RGEN0100

614

NAME(S): GC, AMA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 00 25 N LONGITUDE: 118 23 34 W ELEVATION: 1890 Metres LOCATION ACCURACY: Within 500M

COMMENTS: (Assessment Report 1794) Fig. 4.

COMMODITIES: Gemstones **Lithium** 

**MINERALS** 

SIGNIFICANT: Tourmaline MINERALIZATION AGE: Unknown Feldspar Lepidolite Quartz

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Pegmatite Magmatic
TYPE: O01 Rare element pegmatite - LCT family

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex **FORMATION** 

LITHOLOGY: Mica Schist

Quartz Feldspar Tourmaline Pegmatite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Monashee Mountains

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence lies within cover rocks south of the Frenchman

Cap Dome on Tonkawatla Ridge.

A pegmatite of coarse-grained quartz, feldspar and black tour-

maline is hosted by a mica (lepidolite) schist.

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GSC MAP 12-1964; 4404G

GSC P 64-32

DATE CODED: 1985/07/24 DATE REVISED: 1986/02/21 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 025 NATIONAL MINERAL INVENTORY: 082M4 Ag1

NAME(S): HOMESTAKE (L.827), HOMESTAKE MINE, KAMAD

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5665987 EASTING: 301989 LATITUDE: 51 06 40 N LONGITUDE: 119 49 44 W ELEVATION: 668 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: "Barite bluff" (Fig. 7-7, Fieldwork 1985).

COMMODITIES: Silver 7inc Gold I ead Copper Barite Mica

**MINERALS** 

SIGNIFICANT: Barite Tetrahedrite Galena Sphalerite Pyrite

Chalcopyrite Argentite Silver Pyrargyrite Gold Muscovite

ASSOCIATED: Barite Quartz

ALTERATION: Sericite Chlorite Talc Muscovite

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Massive

Industrial Min. TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Tabular MODIFIER: Sheared

DIMENSION: Metres STRIKE/DIP: 115/20N TREND/PLUNGE:

COMMENTS: Attitude of host schist.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

GROUP Undefined Group STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Quartz Talc Sericite Schist

Sericite Quartz Phyllite Sericite Chlorite Quartz Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay **RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: HOMESTAKE REPORT ON: Y

> CATEGORY: YEAR: 1982 Indicated

> 249906 Tonnes QUANTITY:

COMMODITY **GRADE** Silver 226.6000 Grams per tonne Gold 0.5800 Grams per tonne Barite 36.7000 Per cent Copper 0.2800 Per cent Lead 1.2400 Per cent

Zinc COMMENTS: Probable.

REFERENCE: Statement of Material Facts 06/06/86, Kamad Silver Company Ltd.

**CAPSULE GEOLOGY** 

The Homestake deposit is hosted by quartz-talc-sericite schists, sericite-quartz phyllite and sericite-chlorite-quartz phyllite derived from felsic to intermediate volcanic rocks (Unit EBA) of the Lower Cambrian and older(?) to Mississippian Eagle Bay Formation. The rocks are overlain by intermediate to felsic volcanic and volcaniclastic rocks (Unit EBF) which hosts the Rea Gold deposit (082M 191), 4 kilometres north. These units are overlain by metasedimentary rocks consisting of argillites, siltstones and grits, which are structurally overlain, to the east by mafic volcanic rocks (Unit EBG) (see Map 56 for unit descriptions).

2.1900

Per cent

The deposit lies on the southern limb of a northwest trending,

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

tight, overturned syncline. An east dipping thrust fault is inferred to separate the felsic to intermediate metavolcanics and the more mafic metavolcanics to the east.

Several barite lenses with variable amounts of sulphides occur near the top of a bleached, rusty-yellowish weathered zone of pyritic sericite-quartz schist interpreted to be a highly altered, felsic tuff. The schistosity and compositional layering dip at shallow to moderate angles to the northeast.

The main mineralized areas occur as two tabular horizons separated by 4 to 5 metres of schist. The largest, called the "barite bluff", is 5 to 6 metres wide on surface and contains most of the sulphides. A lower horizon, 1 to 2 metres thick, is banded with only minor sulphides. Underground, the barite-sulphide lenses have been traced several hundred metres.

The main horizon consisting of massive to banded barite, metallic minerals and quartz-sericite are cut by veins and lenses of quartz. The metallic minerals include tetrahedrite, galena, sphalerite, pyrite, chalcopyrite, argentite, native silver and trace ruby silver and native gold. The bayle-basemetal deposit has an extremely large sericite mica envelope.

Several small sulphide lenses, known as the Victory Group, were intersected by old workings at 600, 1700 and 2100 metres respectively, southeast of the Homestake deposit (Property File - Stevenson, 1936b).

Twelve hundred metres northwest of the Homestake deposit, old workings intersected several conformable quartz lenses with pyrite, chalcopyrite, galena and sphalerite. These showings were known as the Silver King and Silver Queen (Minister of Mines Annual Report 1936).

Bands, up to 600 metres wide, of sericite and quartz-sericite extend for up to 7 kilometres from Squaam Bay northwest.

The sericite schist is fine-grained, fissile and weathers yellow due to ferric sulphate coating. Nodules of augen-like quartz give the rock a mottled appearance (Z.D. Hora, personal communication, 1990). X-ray diffraction analyses in 1987, by the Ministry of Energy, Mines and Petroleum Resources found talc to be a component in a number of samples of quartz-sericite schist. This deposit is a major potential sericite-mica resource in British Columbia.

major potential sericite-mica resource in British Columbia.

Probable reserves are 249,906 tonnes grading 226.6 grams per tonne silver, 36.7 per cent barite, 0.28 per cent copper, 1.24 per cent lead, 2.19 per cent zinc and 0.58 grams per tonne gold (Statement of Material Facts 06/06/86, Kamad Silver Company Ltd.). Caving occurs in unsupported ground. Test milling in 1981 was completed for flow sheet design.

The large sericite envelope of the deposit represents a metamorphosed alteration zone that is of potential interest as a source of mica and may contain substantial reserves of fine-grained muscovite within the sericite schist.

#### **BIBLIOGRAPHY**

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EM FIELDWORK 1998, pp. 297-306

EMPR AR 1893-1068-1069; 1894-751; 1895-696; 1897-575; 1902-191;

1913-208; 1917-221-223,236; 1918-236; 1922-147; 1923-170;
    *1924-154-157; 1925-171; 1926-185; *1927-201-204,403; 1929-
218; 1935-A24,G46; *1936-D32-36,G48; 1937-A35; 1941-24,58;
1942-57; 1943-61; 1947-203; 1964-99
EMPR ASS RPT *2915
EMPR FIELDWORK 1978, pp. 36-37; 1979, pp. 28-36; 1984, pp. 67-76;
   1985, pp. 59-68
EMPR GEM 1969-234; 1970-317; 1971-437; 1972-86; 1973-114; 1974-96
EMPR MAP 56; 65 (1989)
EMPR OF 1988-19, p. 69; 1992-1; 1992-9; 1998-9; 1998-10; 1999-2;
   1999-14; 2000-31
EMPR PF (Richmond, A.M. (1932): Barite in British Columbia, Non-
   Metallic Mineral Investigations Report No. 1, pp. 13-14;
    *Stevenson, J.S. (1936b): Special Report, Victory Group; *Stevenson, J.S. (1936c): Special Report, Silver King and Silver
    Queen Group; *Goring, A.W. (1974): Private Report on Homestake
    Mine)
EMR MIN BULL 223 B.C. 70
EMR MP CORPFILE (Kamloops Homestake Mines, Limited; Allied Mines
   Ltd.; Taylor (Bride River) Mines, Limited; Kamad Silver Co. Ltd.;
    Canadian Reserve Oil and Gas Ltd.)
GSC MAP 48-1963; 5320G
GSC OF 637
GSC P 91-1A, pp. 27-31
GSC SUM RPT 1894, p. 21A; *1921, Pt. A, pp. 103-104
CANMET IR 493; 711; 774
CMH 1983-84, p. 181
FIN POST Survey of Mines (1963), p. 81
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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL #271, 1969; July 22, 1971; Nov.29, 1978; #132, 1979; #244, 1985; #206, 1989

N MINER Dec.25, 1980; Dec.9, 1985; Nov.27, 1989

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau-Clearwater Area

Preto, V.A. and Schiarizza, P. (1985): \*Geology and Mineral Deposits of the Adams Plateau-Clearwater Region in GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/12/11 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 025

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 026

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

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NAME(S): **BIRMOLY**, JANE

MINING DIVISION: Kamloops

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5696279 EASTING: 294640

LATITUDE: 51 22 50 N
LONGITUDE: 119 57 04 W
ELEVATION: 2100 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description (Assessment Report 1938).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

TYPE: L05 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous IGNEOUS/METAMORPHIC/OTHER Baldy Batholith **FORMATION** 

LITHOLOGY: Quartz Monzonite

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

**CAPSULE GEOLOGY** Disseminated molybdenite occurs in a 122 metre northwest trending

zone within quartz-monzonite or granodiorite of the Cretaceous Baldy

Batholith.

**BIBLIOGRAPHY** 

EMPR ASS RPT 1938 EMPR GEM 1969-232 EMPR OF 2000-7 GSC MAP 48-1963

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/20 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 027

NATIONAL MINERAL INVENTORY:

NAME(S): RIP

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M02E BC MAP:

LATITUDE: 51 14 30 N LONGITUDE: 118 43 24 W ELEVATION: 2050 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample 14-2 location, p. 18, GSC Paper 71-29, pp. 16-19.

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Nepheline

Pyrrhotite Pyrite Biótite Zircon

Calcite

ALTERATION: Limonite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Pegmatite

Disseminated

**HOST ROCK** DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5678111 EASTING: 379708

REPORT: RGEN0100

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Shuswap Metamorphic Complex

LITHOLOGY: Nepheline Gneiss

Quartzite Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Complex along the western margin of the Frenchman Cap Dome. The core of the dome rocks are probable Aphebian Age paragneiss and orthogneiss. Lying unconformably on the dome are a succession of metasedimentary quartzites and pelites and concordant nepheline syenite gneisses.

Molybdenite occurs disseminated in nepheline and pegmatite dykes which intrude biotite schists and gneisses. Limonite staining is associated with pyrite and pyrrhotite.

**BIBLIOGRAPHY** 

EMPR GEM 1969-337; \*1970-464 EMPR MAP 43

GSC MAP 12-1964 GSC OF 637

GSC P 64-32; 71-29, pp. 16-19 CJES V. II, pp. 304-318, (McMillan, W.J., Moore Jr., J.M. (1974): Gneissic Alkalic Rocks and Carbonatites in the Frenchman's Cap Gneiss Dome, Shuswap Complex, B.C.)

GAC Special Paper No. 6, 1970, pp. 87-98

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/03/17 FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 028

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

620

NAME(S): TIM

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M13W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 49 50 N
LONGITUDE: 119 56 50 W
ELEVATION: 1800 Metres
LOCATION ACCURACY: Within 500M NORTHING: 5746300 EASTING: 296930

COMMENTS: Drilling area, map (Property File).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Schist

Greenalite Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary schists and gneisses of the Shuswap Metamorphic Complex intruded by granitic rocks.

Molybdenite occurs in the metasediments.

**BIBLIOGRAPHY** 

EMPR AR 1968-166 EMPR PF (\*Secondo Mining Ltd. (1968): Claim, Geochemistry, Drilling

Location Map) GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082M 029

NAME(S): **FOGHORN**, GOPHER

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 32 05 N LONGITUDE: 119 57 14 W ELEVATION: 1980 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Dwg. 193-4 (Assessment Report 7813).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Argentite Chalcopyrite **Pyrite** 

Pyrrhotite

ASSOCIATED: Quartz ALTERATION: Chlorite
ALTERATION TYPE: Chloritic

Feldspar Sericite Sericitic

Mica

Limonite

Massive

Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Volcanogenic

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: 0400 x 0150 COMMENTS: Mineralized zone.

Stratabound

**Epigenetic** 

Metres

STRIKE/DIP:

TREND/PLUNGE:

PAGE:

NATIONAL MINERAL INVENTORY: 082M12 Ag1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

Gold

NORTHING: 5713427 EASTING: 295139

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DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Devonian-Mississipp. **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group Eagle Bay** 

LITHOLOGY: Quartz Sericite Schist

Phyllite Chert Vein

Chlorite Sericite Schist

Basalt Gabbro

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: VEIN

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1980 Assay/analysis

**COMMODITY GRADE** Silver 10.6500 Grams per tonne Gold 0.3400 Grams per tonne Copper 1.0600 Per cent Lead 36.4500 Per cent Zinc 12.5500 Per cent

COMMENTS: Eight to twenty centimetre wide vein.

REFERENCE: Assessment Report 7813.

**CAPSULE GEOLOGY** 

Foghorn Mountain is underlain by metavolcanics derived largely from intermediate crystal-lithic tuffs and porphyritic flows of the Devonian to Mississippian part of the Eagle Bay Formation. The rocks are pale to medium green chlorite-sericite schist, quartzsericite schist, chert, phyllite and sericitic quartzite. These comprise a relatively flat lying plate, occurring as a gentle north-plunging synform. To the west, separated by an east-dipping thrust fault, are basalt, gabbro, chert and minor sediments of the Fennell Formation. The Middle Cretaceous Baldy Batholith lies to the south. The mineralized zone, measuring 400 by 150 metres and trending 030 degrees contains several narrow discontinuous steeply dipping

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

quartz veins with spotty to sub-massive lenses of galena, sphalerite and lesser chalcopyrite, pyrite, argentite and pyrrhotite. The veins are 5 to 20 centimetres wide, seldom exceed a few metres in length and generally strike 040 degrees. Occassionally, intersecting shear zones or breccia zones show areas of wider mineralization. A selected sample of an 8 to 20 centimetre wide vein containing massive galena and sphalerite assayed 36.45 per cent lead, 12.55 per cent zinc, 1.06 per cent copper, 10.65 grams per tonne silver and 0.34 grams per tonne gold (Assessment Report 7813).

In the mineralized zone, alteration shows a distinctive buff to orange-brown colour to the host phyllites and quartz-sericite schists and bright orange-brown limonite is common along fracture planes. A sample of the host rock in the zone of alteration and veining, which contained no visible mineralization, assayed 0.48 per cent lead, 11.0 grams per tonne silver and 0.048 per cent copper (Assessment Report 7813).

### **BIBLIOGRAPHY**

```
EMPR AR 1913-212; 1915-211; *220-221; 1916-266,518; 1917-236,450; 1924-150; 1958-30

EMPR ASS RPT *4876, 7404, *7813, 11381

EMPR EXPL 1979-114-115; 1983-168

EMPR FIELDWORK 1984, pp. 67-76; 1985, pp. 89-94

EMPR GEM 1970-302; 1974-98

EMPR GEOL 1977-1981, p. 55,Fig. 18

EMPR MAP 53; 56

EMPR OF 1986-5

EMPR PF (Map by G.C. Singhai; Foghorn Mountain Property, April 29, 1988, Prospectus, Gold Spring Resources Ltd.)

GSC MAP 48-1963

GSC OF 637

GSC SUM RPT 1930, pp. 143-144

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): Mineral Deposits of the Adams Plateau-Clearwater Area

Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region in GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/01/10 REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 030 NATIONAL MINERAL INVENTORY: 082M12 Cu2

NAME(S): **SHAMROCK** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 32 20 N LONGITUDE: 119 55 14 W ELEVATION: 1600 Metres NORTHING: 5713798 EASTING: 297469

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein showing, (Property File -Geology Map by Pisani, 1970); Fig. 10 (GSC Summary Report 1930).

COMMODITIES: Lead Silver Gold

**MINERALS** 

SIGNIFICANT: Galena Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic SHAPE: Irregular

DIMENSION: STRIKE/DIP: 040/30N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Devonian **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Quartzite Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1924

SAMPLE TYPE: Rock GRADE

COMMODITY Silver 2331.0000 Grams per tonne Gold 1.4000 Grams per tonne Lead 26,0000 Per cent

REFERENCE: Annual Report 1924, page 152.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian part of the Eagle Bay Formation consisting of northeast trending quartz-chlorite-sericite schist and quartzite which are cut by porphyry dykes. Several concordant quartz veins contain pyrite. A showing of galena was reported in the area and a sample assayed 26 per cent lead, 2331 grams per tonne silver and 1.4 grams per tonne gold (Annual Report

1924).

**BIBLIOGRAPHY** 

EMPR AR 1917-236; 1924-152

EMPR ASS RPT 7404

EMPR PF (Geology Map by P. Pisani, 1970)

GSC MAP 48-1963

GSC OF 637 GSC SUM RPT \*1930, pp. 145-146

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/08 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 030

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 031 NATIONAL MINERAL INVENTORY: 082M12 Pb3

NAME(S): MINNESOTA GIRL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 33 15 N NORTHING: 5715469 EASTING: 298210

LONGITUDE: 119 54 39 W ELEVATION: 1320 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing on Geology Map by Pisani (Property File).

COMMODITIES: Lead Silver Gold 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Ankerite Sphalerite Pyrite Pyrrhotite Feldspar Quartz Calcite

ALTERATION: Ankerite Calcite

ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Feldspar Porphyry

Quartzite

Quartz Sericite Schist

Tuff Trachyte

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: YEAR: 1923 Assay/analysis

> SAMPLE TYPE: Rock

**COMMODITY GRADE** Silver 137.0000 Grams per tonne Gold 0.7000 Grams per tonne 1.5000 Per cent I ead

Zinc COMMENTS: Sample taken from dump. REFERENCE: Annual Report 1923, page 155.

**CAPSULE GEOLOGY** 

**BIBLIOGRAPHY** 

A "trachytic" unit of alkali-feldspar porphyry, lithic tuff, tuff breccia and pyritic schist is structurally underlain by quartzsericite schist and chlorite schist with interlayered metasediments of the Devonian to Mississippian part of the Eagle Bay Formation. Widely spaced quartz stringers carrying galena, sphalerite,

5.0000

Per cent

pyrite and pyrrhotite occur in the trachyte unit. A sample from a dump assayed 5 per cent zinc, 1.5 per cent lead, 137 grams per tonne silver and 0.7 grams per tonne gold (Annual Report 1923).

EMPR AR \*1923-155; 1924-152; 1926-187-188; 1927-191; 1929-224;

1930-193 EMPR ASS RPT 1737, 1912, 1913, 2337-2340, 10207

EMPR PF (Rpt and Map by P. Pisani, 1970; Map by S.S. Gandhi, 197?) GSC MAP 48-1963

MINFILE NUMBER: 082M 031

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT \*1930, p. 146

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/16 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 031

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 032

NATIONAL MINERAL INVENTORY:

NAME(S): TINKIRK, NOBLE, LAST CHANCE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

626

LATITUDE: 51 36 10 N

NORTHING: 5720518 EASTING: 307561

LONGITUDE: 119 46 44 W ELEVATION: 920 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Map 1986/5 (Open File); Tinkirk adit, south facing slope of Mount McClennan east of Peavine Creek. Figure 4 (Assessment Report

15817).

COMMODITIES: Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena ASSOCIATED: Calcite
ALTERATION: Calcite
ALTERATION TYPE: Quartz-Carb. Ankerite Ankerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
SHAPE: Irregular

STRIKE/DIP: 135/90E DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

Paleozoic Unden DATING METHOD: Fossil

MATERIAL DATED: Archaeocyathids

LITHOLOGY: Schist

Limestone Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YFAR: 1922 Assay/analysis

**GRADE** 

COMMODITY 13.7000 Silver

Grams per tonne 20.6000 Gold Grams per tonne

REFERENCE: Annual Report 1922, page 145.

**CAPSULE GEOLOGY** 

The area is underlain by Lower Cambrian part of the Eagle Bay metavolcanics consisting of chlorite schist and greenstone and a

conformable north-west trending band of limestone.

Quartz veins, containing seams, about 3.8 centimetres wide, Quartz veins, containing seams, about 3.8 centimetres wide, mineralized with pyrite and galena, occur in the schists. A sample of one of the veins assayed 20.6 grams per tonne gold and 13.7 grams per tonne silver (Annual Report 1922). A sample of vein material from the dump at the adit entrance assayed 0.045 per cent copper, 0.047 per cent zinc, 0.23 per cent lead and 76.0 grams per tonne silver (Assessment Report 15817).

**BIBLIOGRAPHY** 

EMPR AR 1917-236; \*1922-145; 1923-155 EMPR ASS RPT \*12080, \*15817

EMPR EXPL 1983-169

EMPR GEM 1969-228; 1970-296

EMPR OF 1986-5

EMPR PF (Claim Sketch Maps, 1963, 1966)

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637 GSC MAP 48-1963 GSC SUM RPT 1930A, p. 152 Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 032

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 033

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5721382 EASTING: 305187

REPORT: RGEN0100

628

NAME(S): **BEARSDEN**, NIMSIC, NOBLE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 36 35 N

LONGITUDE: 119 48 49 W ELEVATION: 1140 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Map 1986/5 (Open File).

COMMODITIES: Silver Copper Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite Gale COMMENTS: Probable minerals. Galena Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Quartz Sericite Schist Graphitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by Lower Paleozoic Eagle Bay metasediments consisting of chlorite-sericite-quartz schist and black graphitic

schist. A northeast trending fault cuts the schist.

A quartz vein apparently carries silver, gold, copper and lead mineralization. An unknown sample type assayed 0.34 grams per tonne gold, 295 grams per tonne silver and 11.26 per cent lead (Old Mineral

Deposit Inventory Form in Property File).

**BIBLIOGRAPHY** 

EMPR ASS RPT 6603, 12080 EMPR EXPL 1977-101; 1983-169 EMPR GEM 1969-228

EMPR OF 1986-5 GSC MAP 48-1963 GSC OF 637 Placer Dome File

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 034

NATIONAL MINERAL INVENTORY: 082M12 U2

PAGE:

NORTHING: 5717649 EASTING: 301767

REPORT: RGEN0100

629

NAME(S): **BULLION**, CROWN, G ZONE, REXSPAR

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 34 30 N LONGITUDE: 119 51 39 W ELEVATION: 550 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Fig. 196C-3 (Assessment Report 7503);

See Rexspar - 82M 021.

COMMODITIES: Uranium Thorium

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Uraninite Uranothorite

COMMENTS: Possible uranium-thorium minerals present. ALTERATION: Hematite Limonite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Volcanogenic Syngenetic

TYPE: D06 Volcanic-hosted U

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Devonian-Mississipp. Undefined Group Eagle Bay

LITHOLOGY: Trachyte

Feldspar Porphyry Chlorite Sericite Schist

Phyllite

HOSTROCK COMMENTS: Unit EBFt of the Eagle Bay Assemblage (Schiarizza and Preto, 1987).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1970 SAMPLE TYPE: Rock

COMMODITY Thorium **GRADE** Per cent Uranium 0.0320 Per cent

COMMENTS: The sample width is 2.0 metres. REFERENCE: Property File: Report and map by P. Pisani, 1970.

CAPSULE GEOLOGY

A north trending fault along Lute Creek separates metavolcanics consisting of chlorite-sericite schist derived from porphyritic flows and tuffs, to the east and phyllite, overlain by feldspar porphyry and trachyte, to the west. The trachyte, which is unit EBFt of the Eagle Bay Assemblage (Schiarizza and Preto, 1987), contains a radioactive zone with uranium-thorium minerals, pyrite and minor galena

and chalcopyrite.

About 800 metres to the west, a drill hole intersected 10 metres of trachyte with low to medium radioactivity. A 1.5 metre sample assayed 0.027 per cent uranium and 0.09 per cent ThO2 (Property File, Report and Map by P. Pisani, 1970).

**BIBLIOGRAPHY** 

EMPR AR 1954-110; 1958-30; \*1968-164 EMPR ASS RPT 5502, \*7503, 7647, 10627 EMPR EXPL 1975-58; 1977-100; 1979-115; 1982-122 EMPR FIELDWORK 1985, p. 93; 1988, pp. 474-476

EMPR GEM 1969-229

EMPR P 1979-6, p. 38; 1987-2, p. 62

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (RPT and MAP by P. Pisani, 1970, in Rexspar File)
EMR MP CORPFILE (Deer Horn Mines Limited; Consolidated Rexspar
Minerals & Chemicals Limited)
GSC EC GEOL #16
GSC MAP 48-1963
GSC OF 551; 637
GCNL #69, 1976

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/19 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 034

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 035

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

NORTHING: 5719893 EASTING: 307730

REPORT: RGEN0100

631

NAME(S): **BIG CHIEF**, CHIEFTAIN, DREADNOUGHT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 35 50 N LONGITUDE: 119 46 34 W ELEVATION: 731 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Claim Sketch Maps 1966, 1967 (Property File).

COMMODITIES: Lead Silver Gold Copper

**MINERALS** 

Pyrite Chalcopyrite

SIGNIFICANT: Galena ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic

**Undefined Group** Eagle Bay

LITHOLOGY: Schist

Phyllite Gréenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by chlorite schist and greenstone of Lower Cambrian age and phyllite with intercalated sediments of Mississippian

age, both of the Eagle Bay Formation.

Quartz veins within the schist and phyllite carry galena and

probably pyrite, chalcopyrite, and gold.

**BIBLIOGRAPHY** 

EMPR AR \*1913-214-215; 1968-164

EMPR OF 1986-5

EMPR PF (Claim Sketch Maps 1966, 1967) GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 036

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

632

NAME(S): **LEONIE**, BRENDA, SONJA

STATUS: Showing MINING DIVISION: Kamloops REGIONS: British Columbia

NTS MAP: 082M12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 35 50 N

LONGITUDE: 119 51 44 W

ELEVATION: 700 Metres

NORTHING: 5720123

EASTING: 301767

LOCATION ACCURACY: Within 500M

COMMENTS: Showings, Map 3 (Assessment Report 436).

COMMODITIES: Lead Zinc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite Magnetite ASSOCIATED: Quartz

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Unknown

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Paleozoic Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Sericite Quartz Phyllite

Granitic Sill Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanics and metasediments of the Devonian part of the Eagle Bay Formation. The rocks include sericite-quartz phyllite, chlorite-sericite-quartz schist and minor limestone. A foliated granitic sill cuts the schists, which

are altered and silicified near the contact.

Galena, sphalerite and chalcopyrite occur in the altered rocks within 30 to 100 metres of the contact. Chalcopyrite is closely related to quartz vein material and copper values occur with a 1.2 to 1.8 metre wide elongated magnetite dike.

to 1.8 metre wide elongated magnetite dike

**BIBLIOGRAPHY** 

EMPR AR 1968-163 EMPR ASS RPT \*436

EMPR EXPL 1978-114; 1979-113-114

EMPR GEM 1972-91-92

EMPR OF 1986-5 EMPR PF (Claim Map, 1967)

GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/30 REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 037

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5720112 EASTING: 302056

REPORT: RGEN0100

633

NAME(S): **ELVA**, B.C.

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 35 50 N
LONGITUDE: 119 51 29 W
ELEVATION: 690 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions and Sketch Map (Annual Report 1913).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Magnetite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Unknown Disseminated

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Quartz Sericite Phyllite

Limestone

Chlorite Sericite Quartz Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

Metavolcanics and metasediments of the Devonian part of the Eagle Bay Formation are cut by a small foliated granitic sill. metamorphic rocks include sericite-quartz phyllite, chlorite-

sericite-quartz schist and minor limestone.

Magnetite and pyrite are disseminated in the rocks near the granitic intrusion and galena and pyrite occur in quartz veins within

the phyllites.

**BIBLIOGRAPHY** 

EMPR AR 1913-215-216; 1968-163 EMPR GEOL 1977-1981, Fig. 18

GSC MAP 48-1963 GSC OF 637

GSC SUM RPT 1930A, p. 152

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 038

NATIONAL MINERAL INVENTORY:

NAME(S): **SUMMIT**, ADY

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

634

LATITUDE: 51 50 20 N

NORTHING: 5746933 EASTING: 304352

LONGITUDE: 119 50 24 W ELEVATION: 2000 Metres LOCATION ACCURACY: Within 500M

COMMENTS: East zone, Map 3 (Assessment Report 4386); Assessment Report 127 plots a showing 1.5 kilometres to the east-southeast and describes it

similar to this prospect. Also, GSC Map 48-1963 plots a Cu, Pb, Zn, Ag showing at the same location as Assessment Report 127.

COMMODITIES: Zinc Gold Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrrhotite Pyrite Galena Chalcopyrite Biótite Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated Massive

CHARACTER: Concordant CLASSIFICATION: Replacement

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Fractured

DIMENSION: 0230 x 0200 x 0002 Metres STRIKE/DIP: 090/40N TREND/PLUNGE:

COMMENTS: East zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP Shuswap Metamorphic Complex

Proterozoic-Cambrian

LITHOLOGY: Schist

**Biotite Gneiss** 

Andesite Porphyritic Dike

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: EAST REPORT ON: Y

> CATEGORY: Indicated YEAR: 1956

244000 Tonnes QUANTITY:

COMMODITY Silver 27.4000 Grams per tonne 0.7000 Per cent Copper Lead 1.0000 Per cent 7inc 4.5000 Per cent

COMMENTS: Average width of 2.2 metres.

REFERENCE: Minister of Mines Annual Report 1956, pages 69,70.

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary schists and gneisses of the Shuswap Metamorphic Complex, intruded by granitic dykes and sills and pegmatites. The metasediments vary from quartz-mica schist to biotite gneiss. Locally, limestone and marble occur and are generally altered, developing wollastonite, fluorite and garnet minerals. All rocks are cut by fracture related andesite porphyry dykes with a general strike of 010 degrees and dip of 70 to 75 degrees west.

The general strike is 050 degrees and the dip is between 20 to 45 degrees to the northwest. Folding and faulting are minor in the

Sulphide mineralization occurs in three main zones over an eastnortheast strike length of 1100 metres. Mineralization is a replacement of pyrrhotite, sphalerite, galena, pyrite and chalcopyrite along

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

bedding planes and pre-existing fractures in quartz-biotite gneiss. The sulphides occur as discontinuous lenses, lacking continuity in thickness and strike length.

The East Zone strikes east-west for 230 metres and a down dip distance of 200 metres with an average width of 2.1 metres to a maximum of 4.9 metres. In several places the zone is cut by post mineralization dykes and faults with displacements up to 15 metres south. A 3 metre sample of the outcrop assayed 6.67 per cent zinc, 4.13 per cent lead, 0.76 per cent copper and 87.8 grams per tonne silver (Assessment Report 2107).

The Ady vein, or Central Zone lies 500 metres west of the East Zone. It is exposed along surface for 18 metres and by drilling for 38 metres. A sample of the outcrop returned 10.0 per cent zinc, 5.0 per cent lead, 0.9 per cent copper and 99.4 grams per tonne silver (Annual Report 1956).

The west vein, 600 metres west-southwest of the Ady vein, is exposed on surface for a few metres. A sample assayed 3.73 per cent zinc, 1.29 per cent lead, 0.48 per cent copper and 31.5 grams per tonne silver (Assessment Report 4386).

The East Zone is the largest zone with indicated reserves totalling 244,000 tonnes, having an average width of 2.2 metres and an average grade of 4.5 per cent zinc, 1.0 per cent lead, 0.7 per cent copper and 27.4 grams per tonne silver (Annual Report 1956). This is assumming the zone to be continuous.

#### **BIBLIOGRAPHY**

EMPR AR \*1956-69-70 EMPR ASS RPT \*127, \*1140, \*2107, \*4386 EMPR GEM 1969-230; 1972-93-94 GSC MAP 48-1963 EMPR OF 1998-10 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 038

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 039

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

636

NAME(S): **CARIBOO**, SONJA 10

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M11W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 36 30 N
LONGITUDE: 119 21 24 W
ELEVATION: 1700 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 5720108 EASTING: 336816

COMMENTS: Descriptions by Ministry of Publications.

COMMODITIES: Copper Gold Silver Manganese Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Molybdenite

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Proterozoic-Cambrian GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Meta Volcanic

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland TECTONIC BELT: Omineca

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by the Shuswap Metamorphic Complex.

east-west striking vein, containing chalcopyrite and molybdenite,

occurs in a metavolcanic rock.

**BIBLIOGRAPHY** 

EMPR EXPL \*1978-E112; \*1979-113; \*1980-143

EMPR GEM 1969-228 GSC MAP 48-1963 GSC OF 637 Placer Dome File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1986/05/29 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 040 NATIONAL MINERAL INVENTORY: 082M12 Ag1

NAME(S): CHIDGRIN, FOGHORN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 32 20 N LONGITUDE: 119 57 14 W ELEVATION: 1980 Metres NORTHING: 5713890 EASTING: 295158

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Map 3 (Assessment Report 4876).

COMMODITIES: Silver Zinc Copper Gold I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

ALTERATION: Chlorite Sericite

Sericitic

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Phyllite Chert Vein

Crystal Lithic Tuff Chlorite Sericite Schist Porphyritic Flow

Basalt Gabbro Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: DUMP

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1974 Assay/analysis

**COMMODITY GRADE** 

Silver 204.7000 Grams per tonne Gold 0.0700 Grams per tonne Copper 0.2500 Per cent Lead 12.4800 Per cent Zinc 2.0200 Per cent

COMMENTS: Sample taken from adit dump. REFERENCE: Assessment Report 4876.

**CAPSULE GEOLOGY** 

Foghorn Mountain is underlain by metavolcanics derived largely from intermediate crystal-lithic tuffs and porphyritic flows of the Devonian to Mississippian part of the Eagle Bay Formation. The rocks are pale to medium green chlorite-sericite schist, quartzsericite schist, chert, phyllite and sericitic quartzite. These comprise a relatively flat lying plate, occurring as a gentle north-plunging synform. To the west, separated by an east-dipping thrust fault, are basalt, gabbro, chert and minor sediments of the Fennell Formation. The Middle Cretaceous Baldy Batholith lies to the south. Several narrow, discontinuous quartz veins contain galena,

sphalerite and minor pyrite and chalcopyrite. A grab sample from

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

an adit dump assayed 12.48 per cent lead, 2.02 per cent zinc, 0.25 per cent copper, 204.7 grams per tonne silver and 0.07 grams per tonne gold (Assessment Report 4876).

**BIBLIOGRAPHY** 

EMPR AR \*1924-150-151
EMPR ASS RPT \*4876, 7404, 7813, 11381
EMPR EXPL 1979-114-115; 1983-168
EMPR GEM 1974-98 EMPR MAP 53; 56 EMPR MAP 53, 50 EMPR OF 1986-5 EMPR PF (Map by G.C. Singhai; Foghorn Mountain Property, April 29, 1988, Prospectus, Gold Spring Resources Ltd.)

GSC MAP 48-1963 GSC OF 637

GSC SUM RPT \*1930, p. 144 GCNL #168, 1984

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/10 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 040

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 041

NATIONAL MINERAL INVENTORY:

NAME(S): KELLY'S

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M12W BC MAP: LATITUDE: 51 31 20 N

PAGE:

REPORT: RGEN0100

639

NORTHING: 5712014 EASTING: 295661

IGNEOUS/METAMORPHIC/OTHER

LONGITUDE: 119 56 44 W ELEVATION: 1860 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Fig. 18 (Geology in B.C. 1977-1981, p. 55, Fig. 18).

COMMODITIES: Lead

7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite

ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

CAPSULE GEOLOGY

The area is underlain by metavolcanics of the Devonian part of the Eagle Bay Formation. The rocks, consisting of quartz-sericite schist, trend northeast and dip moderately to the northwest. Quartz veins contain galena, sphalerite and pyrite.

**BIBLIOGRAPHY** 

EMPR ASS RPT 7404

EMPR ASS RP1 7404

EMPR GEOL 1977-1981, p. 55, Fig. 18

EMPR MAP 53; 56

EMPR OF 1986-5

EMPR PF (Foghorn Mountain Property, April 29, 1988, Prospectus, Gold

Spring Resources Ltd.) GSC MAP 48-1963

GSC OF 637

GSC SUM RPT \*1930, p. 144

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/09 FIELD CHECK: N CODED BY: GSB REVISED BY: LDJ

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 042

NAME(S): MILLAR'S, BIRCH ISLAND, REXSPAR SPAR 36 (L. 5486)

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 34 45 N LONGITUDE: 119 54 29 W

ELEVATION: 920 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Spar 36 claim (L. 5486).

COMMODITIES: Lead 7inc Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Molybdenite Pyrrhotite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Siderite

**DEPOSIT** 

GHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: E14 Se Disseminated Hydrothermal

105 Sedimentary exhalative Zn-Pb-Ag Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Quartzite

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Flat-lying quartz-sericite schist with interlayers of phyllite and sericitic quartzite of the Devonian part of the Eagle Bay Formation contain quartz lenses with pyrite, pyrrhotite, galena,

sphalerite, molybdenite, and siderite.

**BIBLIOGRAPHY** 

EMPR AR 1927-191

EMPR ASS RPT 1737, 1912, 1913, 2337-2340, 4957, 10207

EMPR GEM 1973-117 GSC MAP 48-1963

GSC OF 637

GSC SUM RPT \*1930, pp. 150-151

Chevron File

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/16 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 042

PAGE:

NORTHING: 5718241 EASTING: 298513

NATIONAL MINERAL INVENTORY: 082M12 Pb4

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 043

NATIONAL MINERAL INVENTORY:

NAME(S): FOGHORN CR MOLY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

641

NTS MAP: 082M12W BC MAP:

NORTHING: 5715944 EASTING: 297940

LATITUDE: 51 33 30 N LONGITUDE: 119 54 54 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole 73-5, Fig. 2 (Assessment Report 4957).

COMMODITIES: Molybdenum Fluorite Uranium I ead

**MINERALS** 

Galena Pyrite Fluorite

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

Disseminated

CHARACTER: Vein I
CLASSIFICATION: Volcanogenic I
TYPE: D06 Volcanic-hosted U Epigenetic Industrial Min.

SHAPE: Irregular MODIFIER: Fractured

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Devonian-Mississipp. Undefined Group Eagle Bay

LITHOLOGY: Feldspar Porphyry

Trachyte Quartźite Lithic Tuff

Breccia Quartz Sericite Schist Chlorite Schist

HOSTROCK COMMENTS: Unit EPFt of the Eagle Bay Assemblage (Schiarizza and Preto, 1987).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1973 Assay/analysis

SAMPLE TYPE: Drill Core

COMMODITY Fluorite GRADE 10.6300 Per cent Per cent 0.0670 Molybdenum Uranium 0.0200 Per cent

COMMENTS: 3.5 metre width.

REFERENCE: Assessment Report 4957.

CAPSULE GEOLOGY

A "trachytic" unit (Unit EPFt) of moderately northerly dipping alkali-feldspar porphyry, lithic tuff, tuff breccia and pyritic schist is structurally underlain by quartz-sericite schist and chlorite schist with interlayered metasediments of the Devonian to Mississippian part of the Eagle Bay Assemblage (Schiarizza and Preto, 1987).

Molybdenite, galena, pyrite and fluorite occur as disseminations and fracture fills in the trachyte unit. A drill hole intersected 0.067 per cent MoS2, 10.63 per cent CaF2 and 0.02 per cent U308 over 3.5 metres (Assessment Report 4957).

Molybdenite and minor galena were intersected in a drill hole 750 metres to the west. Assays of 0.026 per cent MoS2 over 20 metres and 0.4 per cent lead over 1.5 metres wide were encountered (Property File, Report and Map by P. Pisani, 1970).

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4957 EMPR OF 1992-16 EMPR P 1987-2 EMPR PF (Rpt and Map by P. Pisani, 1970) GSC BULL 27 GSC MAP 48-1963 GSC OF 637 GSC SUM RPT 1930A-153

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1987/01/16 FIELD CHECK: N

MINFILE NUMBER: 082M 043

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 044 NATIONAL MINERAL INVENTORY: 082M12 Pb1

NAME(S): RED TOP, NOBLE, NIMSIC

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 38 20 N NORTHING: 5724737 LONGITUDE: 119 51 19 W ELEVATION: 1520 Metres EASTING: 302429

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization, Fig. 4 (Assessment Report 12080).

COMMODITIES: Silver 7inc Copper Gold I ead

**MINERALS** 

Pyrrhotite Galena Sphalerite Chalcopyrite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Sericite Pyrite Silica

Pyrite Sericitic

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive

CHARACTER: Stratiform Disseminated
CLASSIFICATION: Volcanogenic Replacement
TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 110/30N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Limestone Argillite

Chlorite Muscovite Quartz Schist

Calc-silicate Schist

Quartzite Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1962 Assay/analysis

SAMPLE TYPE: Chip

GRADE 18.9000 COMMODITY Silver Grams per tonne 0.1700 Gold Grams per tonne Copper 0.0800 Per cent Per cent

Lead 2.7500 Zinc 3.1500 Per cent

COMMENTS: 1.5 metre width. REFERENCE: Assessment Report 436.

**CAPSULE GEOLOGY** 

The Lower Cambrian part of the Eagle Bay Formation on Mount McClennan comprises metasediments and metavolcanics, which are deformed into a shallow plunging east trending antiform. The rocks, which occupy the north limb of the structure, include quartzite, chlorite-muscovite-quartz schist, quartz-sericite schist, limestone, calc-silicate schist and skarn. Stratiform lenses of massive, semimassive and disseminated pyrite and pyrrhotite with lesser galena, sphalerite and chalcopyrite occur in pyritiferous, siliceous and recrystallized units. recrystallized units.

The Redtop prospect is a 300 metre thick section of rusty, pyritic, quartz-sericite schist with intercalated meta-argillite and limestone. The strata strikes 110 degrees and dips 30 to 50 degrees northeast. A 1.5 metre chip sample assayed 0.17 grams per tonne

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#### **CAPSULE GEOLOGY**

gold, 18.9 grams per tonne silver, 0.08 per cent copper, 2.75 per cent lead and 3.15 per cent zinc (Assessment Report 436). A 2.0 metre thick chip sample of the pyritic unit, close to the base of the limestone assayed 3.4 grams per tonne silver, 0.015 per cent copper, 0.047 per cent zinc and 0.08 per cent lead (Assessment Report 12080).

### **BIBLIOGRAPHY**

EMPR AR 1923-155; 1924-150; 1927-191; 1966-144 EMPR ASS RPT \*436, \*5813, 6174, \*6603, \*12080, 13463 EMPR EXPL 1975-59; 1976-73-74; 1977-101; 1983-169; 1984-130-131 EMPR FIELDWORK 1985, p. 93 EMPR GEM 1971-442 EMPR GEOL 1977-1981, p. 55 EMPR GD 137.7 1361, p. 35 EMPR GD 1986-5 EMR MP CORPFILE (Crowpat Minerals Limited) GSC MAP 48-1963 GSC OF 637 GSC SUM RPT 1930A, p. 151 N MINER March 14, 1985; June 16, 1986 Placer Dome File EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 045 NATIONAL MINERAL INVENTORY: 082M12 Pb1

NAME(S): **SNOW**, NOBLE, NIMSIC

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 37 55 N NORTHING: 5723909 LONGITUDE: 119 50 04 W ELEVATION: 1540 Metres EASTING: 303840

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization, Fig. 4 (Assessment Report 12080).

COMMODITIES: Silver 7inc Copper Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Pyrrhotite Galena Sphalerite Chalcopyrite

Magnetite ALTERATION: Pyrite Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Replacement
TYPE: E14 Sedin Disseminated Massive

Sedimentary exhalative Zn-Pb-Ag 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Limestone Skarn Quartzite

Calc-silicate Schist

Chlorite Muscovite Quartz Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1962 CATEGORY: Assay/analysis

> SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent Copper 1.7000 8.2500 Per cent Lead

COMMENTS: 0.6 metre sample.

REFERENCE: Assessment Report 436.

7inc

CAPSULE GEOLOGY

The Lower Cambrian part of the Eagle Bay Formation on Mount McCleannan comprises metasediments and metavolcanics, which are deformed into a shallow plunging east trending antiform. The rocks, which occupy the north limb of the structure, include quartzite, chlorite-muscovite-quartz schist, quartz-sericite schist, limestone, calc-silicate schist and skarn. Stratiform lenses of massive, semimassive and disseminated pyrite and pyrrhotite with lesser galena, sphalerite and chalcopyrite occur in pyritiferous, siliceous and recrystallized units.

2.5700

Per cent

The Snow prospect consists of four "semi-conformable", 0.3 to 1.2 metre wide bands of massive sulphide within a 12.2 metre thick, flat-lying unit of carbonate bearing quartz-sericite schist. Zinc rich bands grade upward into copper rich bands and chalcopyrite is partially mobilized into north trending tension fractures. A 0.6 metre sample assayed 1.70 per cent copper, 8.25 per cent lead and 2.57 per cent zinc (Assessment Report 436) and chips from several mineralized blocks assayed 1.18 per cent copper, 0.80 per cent zinc, PAGE:

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

2.10 per cent lead, 140 grams per tonne silver and 0.12 grams per tonne gold (Assessment Report 12080).

**BIBLIOGRAPHY** 

EMPR AR 1966-144 EMPR ASS RPT \*436, \*5813, 6174, \*6603, 6931, \*12080, 13463 EMPR EXPL 1975-59; 1976-73-74; 1977-101; 1978-114-115; 1983-169; 1984-130-131 EMPR FIELDWORK 1985, p. 93 EMPR GEM 1971-442 EMPR GEOL 1977-1981, p. 55 EMPR GEOD 157. 1501, F. 15 EMPR OF 1986-5 EMR MP CORPFILE (Crowpat Minerals Limited) GSC MAP 48-1963, 637 GSC SUM RPT 1930A

N MINER March 14, 1985; June 16, 1986 Placer Dome File EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 046 NATIONAL MINERAL INVENTORY: 082M12 Pb1

NAME(S): **SUNRISE**, NAOMI, BONNIE JEAN, NOBLE, SINBAD, NIMSIC

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE:

NORTHING: 5723548 EASTING: 305174 LONGITUDE: 119 48 54 W ELEVATION: 1520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization, Fig. 4 (Assessment Report 12080).

COMMODITIES: Silver 7inc I ead Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite Galena Chalcopyrite

Tetrahedrite Magnetite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Disseminated Massive

CLASSIFICATION: Replacement

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

DIMENSION: STRIKE/DIP: 110/10N TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION Undefined Group Eagle Bay** 

LITHOLOGY: Quartz Sericite Schist

Limestone Skarn Quartzite

Chlorite Muscovite Quartz Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver GRADE 225.0000 1.7300 Grams per tonne Gold Grams per tonne Copper 1.7000 Per cent Leàd 2.6200 Per cent Zinc 18.3000 Per cent

COMMENTS: 2.0 metre width. REFERENCE: Assessment Report 12080.

**CAPSULE GEOLOGY** 

Lower Cambrian Eagle Bay Formation rocks on Mount McClennan are comprised of metasediments and metavolcanics, which are deformed into a shallow plunging east trending antiform. The rocks, which occupy the north limb of the structure, include quartzite, chlorite-muscovite-quartz schist, quartz-sericite schist, limestone, calcsilicate schist and skarn. Stratiform lenses of massive, semimassive and disseminated pyrite and pyrrhotite with lesser galena, sphalerite and chalcopyrite occur in pyritiferous, siliceous and  $\frac{1}{2}$ recrystallized units.

The Sunrise prospect consists of massive sulphide horizons, up to 1.2 metre thick, within flat-lying quartz sericite schist and close to the nose of the antiform. A 2.0 metre chip sample assayed 1.73 grams per tonne gold, 225 grams per tonne silver, 2.62 per cent PAGE:

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**CAPSULE GEOLOGY** 

lead, 18.3 per cent zinc and 0.13 per cent copper (Assessment Report 12080). The mineralization occurs over a 150 metre length.

**BIBLIOGRAPHY** 

EMPR AR 1913-214-215; 1922-146; 1923-155; 1924-150; 1966-144 EMPR ASS RPT \*436, \*5813, 6174, \*6603, 6931, \*12080, 13463 EMPR EXPL 1975-59; 1976-73-74; 1977-101; 1978-114-115; 1983-169; 1984-130-131 EMPR FIELDWORK 1985, p. 93 EMPR GEM 1971-442 EMPR OF 1986-5; 1998-9 EMR MP CORPFILE (Crowpat Minerals Limited) GSC MAP 48-1963 GSC MAP 48-1963 GSC OF 637 GSC SUM RPT 1930A, p. 152 N MINER March 14, 1985; June 16, 1986 Placer Dome File EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 047

NATIONAL MINERAL INVENTORY:

NAME(S): MORRISON

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M12W BC MAP:

NORTHING: 5722121 EASTING: 306082

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LATITUDE: 51 37 00 N LONGITUDE: 119 48 04 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 3 (Assessment Report 436).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Mariposite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

**GROUP** STRATIGRAPHIC AGE Paleozoic **Undefined Group**  **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartz Sericite Schist

Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by Lower Cambrian to Devonian metasediments consisting of chlorite-sericite-quartz schist and carbonaceous graphite and metavolcanics consisting of calcareous chlorite schist and greenstone of the Eagle Bay Formation. A northeast

trending fault cuts the rocks.

Gold is reported in quartz veins and altered chlorite-sericite-tz schist. A channel sample is reported to assay 13.7 grams per quartz schist. tonne gold (Assessment Report 436). Mariposite probably occurs in

**BIBLIOGRAPHY** 

EMPR ASS RPT \*436, 6603, \*12080 EMPR EXPL 1977-101; 1983-169

EMPR OF 1986-5 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/30 CODED BY: GSB REVISED BY: LDJ

MINFILE NUMBER: 082M 047

FIELD CHECK: N

FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 048

NATIONAL MINERAL INVENTORY:

NAME(S): FOGGY 11, RAY, BIRCH

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

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LATITUDE: 51 31 55 N LONGITUDE: 119 53 34 W ELEVATION: 1740 Metres NORTHING: 5712949 EASTING: 299364

LOCATION ACCURACY: Within 500M

COMMENTS: Trenches, Fig. 3 (Assessment Report 12904).

COMMODITIES: Copper 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite Galena Pyrrhotite

Chlorité ALTERATION: Chlorite Sericite

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown Sericitic

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Volcanogenic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

TYPE: E14 Sedime SHAPE: Tabular DIMENSION: 0900 x 0010

STRIKE/DIP: 050/30N TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**GRO**UP STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

REPORT ON: N

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE

CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Drill Core COMMODITY **GRADE** 

Silver Grams per tonne 5.0000 Copper 0.1300 Per cent Per cent 0.0150 Lead 7inc 0.0860 Per cent

COMMENTS: 16.1 metre width.

REFERENCE: Assessment Report 12904.

CAPSULE GEOLOGY

The area is underlain by Devonian rocks of the Eagle Bay Formation comprised of metavolcanics and arenaceous sediments. units are metamorphosed to greenschist facies, forming quartz-

chlorite-sericite schists and quartzites.

Two semi-massive sulphide horizons, 35 metres apart are composed of granular pyrite in a matrix of chlorite and quartz with minor sphalerite, galena, chalcopyrite and pyrrhotite. The upper horizon, about 900 metres long and 3 to 10 metres wide, trends 50 degrees and dips about 30 degrees to the west. A drill hole intersected the zone and assayed 0.03 per cent copper, 0.02 per cent lead, 0.10 per cent zinc and 2.38 grams per tonne silver over 24.8 metres. A drill hole 220 metres to the southwest assayed 0.13 per cent copper, 0.015 per cent lead, 0.086 per cent zinc and 5.00 grams per tonne silver over 16.1 metres (Assessment Report 12904).

New Global Resources mapped and sampled the Birch property from 1988 to 1990; they drilled 9 holes (309.5 metres) in 1991. Gems Resources optioned the claims in 1991; ownership was Foundation In 1997, Homegold Resources Ltd. prospected Resources Ltd. in 1995. on the Birch property.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 1737, 2810, 7404, 7990, 9008, 9537, 11503, \*12904, 17555, 18970, 20218, 21527

EMPR EXPL 1980-144; 1983-168; 1984-129-130

EMPR GEM 1970-302

EMPR OF 1986-5

GSC MAP 48-1963

GSC OF 637

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 049

NATIONAL MINERAL INVENTORY:

NAME(S): **GRIZZLY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05E BC MAP:

UTM ZONE: 11 (NAD 83)

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LATITUDE: 51 17 40 N

NORTHING: 5686160 EASTING: 308293

Unnamed/Unknown Informal

LONGITUDE: 119 44 59 W ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trench, plate 1 and 2 (Assessment Report 12842).

COMMODITIES: Copper Silver 7inc Molybdenum Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform Disseminated

CLASSIFICATION: Unknown

Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 F SHAPE: Irregular

DIMENSION: STRIKE/DIP: 120/80S TREND/PLUNGE:

COMMENTS: Strike of mineralized zone, dip of foliation.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Spapilem-Deadfall Creeks Lower Cambrian

Upper Devonian

ISOTOPIC AGE: 126 +/- 4 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartzite

Phyllite Schist Para Gneiss Grit Amphibolite Quartz Diorite

Staurolite Garnet Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by probable Lower Cambrian to Hadrynian age Spapilem Creek-Deadfall Creek Succession (unit SDQ, Map 56). The rocks consist of quartzite, micaceous quartzite, grit and phyllite, with lesser staurolite-garnet-mica schist, calc-silicate schist and amphibolite. These rocks are cut by Late Devonian ortho-gneiss and sillimanite bearing paragneiss (unit Dgnp). To the north-east the rocks are cut by post-tectonic granitic rocks of the Mid-Cretaceous Baldy Batholith. Locally the intrusion is a quartzdiorite.

A mineralized zone is exposed over a 75 metre width and striking 120 degrees. Disseminated pyrite and chalcopyrite occurs along foliation planes within feldspar-mica paragneissic rocks. The foliation strikes 105 degrees and dips 80 degrees southwest.

A few scattered quartz veins having moderate to steep dips strike at various angles to the foliation. Mineralization is usually weak, except for a 30 centimetre vein with good chalcopyrite.

Chip sampling of the zone returned values from 0.12 per cent to

1.61 per cent copper and minor silver, zinc, and gold. Trenching and a drill hole suggests a mineralized area of 150 by 450 metres (Assessment Report 10675).

A north-east striking fault zone is interpreted to laterally offset the quartz-diorite/paragneiss contact, 400 metres to the left. (Assessment Report 10675). This interpretation is supported by geochemical results. The Bex Zone, 1200 metres to the east, may be an

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

offset continuation of the Grizzly Zone.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2230, \*2231, \*2232, 4685, \*10675, 11435, 12842 EMPR EXPL 1982-112; 1983-150 EMPR FIELDWORK 1984, pp. 67-76

EMPR GEM 1969-233; 1970-315; 1971-438

EMPR GEM 1969-233; 1970-315; 1971-450
EMPR MAP 56
EMPR OF 2000-7
GSC MAP 48-1963
GSC OF 637
Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/02 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 049

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 050

NATIONAL MINERAL INVENTORY:

NAME(S): RENNING

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 51 17 20 N LONGITUDE: 119 45 34 W ELEVATION: 720 Metres

NORTHING: 5685568 EASTING: 307592

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein, Fig. 3 (Assessment Report 2232).

COMMODITIES: Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite **Bornite** Covellite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 120/65S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian **Undefined Group** Spapilem-Deadfall Creeks Unnamed/Unknown Informal Upper Devonian

ISOTOPIC AGE: 126 +/-4 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartzite

Phyllite Schist Grit Amphibolite

HOSTROCK COMMENTS: Dating by Okulitch, 1979.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1968 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 6.9000 Grams per tonne Zinc 0.1000 Per cent

COMMENTS: Average of several grab samples over 10.6 metre width. Traces

of lead and copper.

REFERENCE: Assessment Report 2231.

**CAPSULE GEOLOGY** 

The area is underlain by probable Lower Cambrian to Hadrynian age Spapilem Creek-Deadfall Creek Succession (unit SDQ, Map 56). The rocks consist of quartzite, micaceous quartzite, grit and phyllite, with lesser staurolite-garnet-mica schist, calc-silicate schist and amphibolite. These rocks are cut by Late Devonian orthogneiss and sillimanite bearing paragneiss (unit Dgnp). To the northeast the rocks are cut by post-tectonic granitic rocks of the Mid-

Cretaceous Baldy Batholith. A vein 0.5 to 0.6 metres wide is traced for 4.6 metres along a strike of 120 degrees and dip of 65 degrees southwest within quartz-

biotite feldspar schist. Mineralization consists of pyrite and chalcopyrite with traces of bornite and covellite occurring as streaks and stringers within the quartz vein.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

Several grab samples along a  $10.6~\rm metre$  length of the vein averaged 6.9 grams per tonne silver,  $0.1~\rm per$  cent zinc and traces of lead and copper (Assessment Report 2231).

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EMPR MAP 56

EMPR OF 2000-7

GSC MAP 48-1963

GSC OF 637

Preto, V.A. and Schiarizza, P.(1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/02 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 050

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 051

NATIONAL MINERAL INVENTORY: 082M5 Cu1

PAGE:

REPORT: RGEN0100

656

NAME(S): **EBL**, REM, E MCLELLAN , REM, EB,

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 19 50 N LONGITUDE: 119 46 24 W NORTHING: 5690237 EASTING: 306799

ELEVATION: 1100 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Diamond Drill Hole 74-6, Fig. 3 (Assessment Report 10584).

COMMODITIES: Copper Silver I ead 7inc Gold

Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite Galena ASSOCIATED: Quartz ALTERATION: Garnet **Epidote Garnet** Magnetite Calcite

Chlorite Quărtz Calcite **Epidote** ALTERATION TYPE: Skarn Silicific'n Oxidation Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform Massive Disseminated

CLASSIFICATION: Replacement Skarn

Noranda/Kuroko massive sulphide Cu-Pb-Zn TYPE: G06

SHAPE: Irregular

DIMENSION: 2700 x 0800 x 0090 Metres STRIKE/DIP: 160/10W TREND/PLUNGE:

COMMENTS: Maximum extent of erratic mineralization on surface and in drillholes;

overall strike of mineralized area.

HOST ROCK
DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic IGNEOUS/METAMORPHIC/OTHER **GROUP FORMATION** 

**Undefined Group Eagle Bay** 

LITHOLOGY: Chlorite Schist

Phyllite

Gossan

Quartz Sericite Schist

Skarn Dioritic Dike Granodiorite Quartz Calcite Vein Limestone Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1970 Assay/analysis

CATEGORY: Assay/an SAMPLE TYPE: Drill Core **GRADE** COMMODITY

Copper COMMENTS: 64.6 metre width.

REFERENCE: Assessment Report 2989.

CAPSULE GEOLOGY

The property is underlain by a sequence of interlayered and interlaminated chlorite schist, phyllite, quartz-sericite schist and minor amounts of skarnified limestone. These rocks are tentatively included within unit EBG (Map 56) of the Devonian or older part of The sequence is likely derived from mafic the Eagle Bay Formation. to intermediate volcanic and volcaniclastic rocks.

0.3520

Per cent

The metavolcanics and metasediments are intruded by diorite to granodiorite dykes ranging from a few centimetres to tens of metres in thickness.

Pyrite, pyrrhotite and lesser chalcopyrite occur over a 2.7

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

kilometre north-northwest strike length as disseminations and massive zones along foliation planes, as fracture fillings and within quartz-calcite veins. This type of mineralization occurs within a variety of lithologies but is most abundant within chloritic schists. Pyrrhotite-pyrite-chalcopyrite-magnetite mineralization within garnet-epidote-chlorite-quartz skarn also occurs, associated with amphibole and limestone.

Massive sulphide mineralization, up to a metre thick, occurs within in a gossan zone 50 metres in length. Local foliation strikes north-northwest and dips 25 degrees westerly. Similar massive sulphide mineralization occurs over 4.3 metres in DDH 74-6, 1700 metres north-northwest of the gossan zone. Several earlier, nearby drill holes intersected good copper mineralization, one of which assayed 0.35 per cent copper over 65 metres (Assessment Report 2989). This hole, P70-9, lies 250 metres north-northwest of DDH 74-6.

A skarn zone, 400 metres south of the exposed massive sulphide zone, is exposed over a 20 metre length and 10 metre width. Drill hole 74-6 also intersected skarn zones over a 18.3 metre interval.

Mineralization on the EBL property is similar to that on the Harper Creek property, 20 kilometres north, on the north edge of the Baldy Batholith. Recent mapping (Schiarizza, 1986) indicates that the Harper Creek deposit occurs near the contact between a metasedimentary sequence, possible equivalent to unit SDQ (Map 56) and overlying felsic metavolcanic rocks of unit EBA. Both units are intruded by Devonian orthogneiss and quartz porphyry sills, which may relate to mineralization. The EBL property may comprise similar SDQ metasediments intruded by Dgn orthogneiss, instead of the underlying unit EBG, referred to earlier.

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EMPR GEM 1969-233; 1970-314-315; 1971-438-439; 1972-87-88; 1973-115; 1974-97
EMPR MAP 1986, p. 5; 56
EMPR OF 1999-2; 2000-7
EMR MP CORPFILE (Royal Canadian Ventures Ltd., Rayrock Mines Limited, The Dynamic Group of Companies, Western Mines Limited)
GSC MAP 48-1963
GSC OF 637
Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau-Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 051

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 052

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5695401 EASTING: 301187

REPORT: RGEN0100

658

NAME(S): H

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05W BC MAP:

LATITUDE: 51 22 30 N
LONGITUDE: 119 51 24 W
ELEVATION: 1600 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, Fig. 2 (Assessment Report 3298).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated
CLASSIFICATION: Unknown
TYPE: L03 Alkalic porphyry Cu-Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Baldy Batholith

LITHOLOGY: Quartz Monzonite

Biotite Granite Pegmatite Granitic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

**CAPSULE GEOLOGY** 

The area is underlain by Mid-Cretaceous Baldy Batholith rocks, consisting of biotite granite, pegmatite, monzonitic granite and

aplitic granite dykes.

Molybdenite occurs as disseminations and blebs in aplite granite

dykes in contact with monzonitic granite.

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EMPR GEM 1971-439-440 EMPR OF 2000-7 GSC MAP 48-1963 GSC OF 637

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/05/06 FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 053

NATIONAL MINERAL INVENTORY:

NAME(S): **AGATE**, TRY ME, RANKIN, KAREN, JOE, BAY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M04E MINING DIVISION: Kamloops

BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

659

NORTHING: 5661766 EASTING: 307283

LATITUDE: 51 04 30 N LONGITUDE: 119 45 04 W ELEVATION: 425 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Map 3 (Assessment Report 4135).

COMMODITIES: Lead

Silver

Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Pyrrhotite

Galena

Chalcopyrite

Pyrite Argentite

ASSOCIATED: Quartz
ALTERATION: Sericite
ALTERATION TYPE: Sericitic

Calcite Epidote Mica

Chlorite

MINERALIZATION AGE: Unknown

**Epidote** 

7inc

**DEPOSIT** 

Concordant

Disseminated

CHARACTER: Vein Stratiforn...

CLASSIFICATION: Replacement Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Faulted DIMENSION: 0800 x 0005

Metres

STRIKE/DIP: 120/45N

F14

TREND/PLUNGE:

COMMENTS: Mineralized concordant quartz veins intermittent over 800 metres up to

4.5 metres wide; general attitude of strata.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Devonian

GROUP Undefined Group

**FORMATION Eagle Bay** 

RELATIONSHIP:

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Sericite Quartz Phyllite Sericite Chlorite Phyllite

Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analy SAMPLE TYPE: Bulk Sample

Assay/analysis

**GRADE** 

COMMODITY

Grams per tonne

YEAR: 1961

Silver Copper 27.4000 Per cent 0.1400 5.1600 Per cent

Lead Zinc

COMMENTS: Taken from upper showing.

1.7000 Per cent

REFERENCE: Annual Report 1961, pages 53-55.

CAPSULE GEOLOGY

The property is underlain by Devonian part of the Eagle Bay Formation rocks consisting of west-northwest trending sericitequartz phyllites and sericite-chlorite-quartz phyllites derived from felsic to intermediate volcanic and volcaniclastic rocks. The strate The strata dips moderately to the northeast.

Galena, sphalerite, pyrite, chalcopyrite and argentite mineralization occurs within quartz veins and replacements concordant with the metavolcanics. The quartz veins also cross cut schistosity and

are sometimes cut off by faults.

A bulk sample of the upper showing, 830 metres west-northwest of the adit, assayed 27.4 grams per tonne silver, 5.16 per cent lead, 1.70 per cent zinc and 0.14 per cent copper (Annual Report 1961).

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/04/28 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 053

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

Underground

Sphalerite

MINFILE NUMBER: 082M 054

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5655402 EASTING: 389093

REPORT: RGEN0100

661

NAME(S): **JOE**, BECA, GLEN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 02 22 N LONGITUDE: 118 34 55 W ELEVATION: 425 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: North showing, plate 2 (Assessment Report 6680). Location of north adit, GPS Mike Cathro,

July 2002. The south adit is 250 metres to the south.

COMMODITIES: Silver 7inc Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Pyrrhotite Pyrite Chalcopyrite Pýrite Chlorite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Volcanogenic Disseminated Massive

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 104/43N TREND/PLUNGE:

COMMENTS: Bedding attitude.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Undefined Group ISOTOPIC AGE: 387 Ma

DATING METHOD: Zircon MATERIAL DATED: Zircon

LITHOLOGY: Phyllite

Chlorite Schist Argillite

HOSTROCK COMMENTS: Isotopic data from Preto and Schiarizza, 1985.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1977 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 16.5000 Grams per tonne Gold 0.1400 Grams per tonne Copper 1.7000 Per cent Lead 0.0400 Per cent Zinc 0.1800 Per cent

REFERENCE: Assessment Report 6680.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian to Mississippian age rocks of the Eagle Bay Formation. The rocks consist of phyllites and schists (EBA) derived from felsic to intermediate volcanic and volcaniclastic rocks. The s dips 25 to 45 degrees north. The strata strikes 070 to 110 degrees and

The Joe showings, 3 kilometres south of Beca (082M 055), occur within a thick horizon of greenish grey chlorite-sericite-quartz phyllite containing conspicuous "eyes" of quartz. Locally, thin horizons of dark green chloritic schist, dark grey phyllite and

argillite occur Two mineralized zones, 250 metres apart, consist of thin conformable

lenses of rusty siliceous pyritic rock. The southern showing is

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

a 0.7 metre wide band of massive pyrite with sulphide mineralization. The northern showing consists of heavily disseminated pyrrhotite with lesser disseminations and streaks of chalcopyrite. A grab sample assayed 0.14 gram per tonne gold, 16.5 grams per tonne silver, 1.7 per cent copper, 0.18 per cent zinc and 0.04 per cent lead.

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GSC OF \*637
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 054

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 055

NAME(S): **BECA**, TOM, AD, DAY, RHODE ISLAND

STATUS: Past Producer

REGIONS: British Columbia NTS MAP: 082M04E

BC MAP:

LATITUDE: 51 02 50 N LONGITUDE: 119 43 04 W ELEVATION: 425 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: North showing, plate 2 (Assessment Report 6680).

COMMODITIES: Silver

Sphalerite Chlorite

Pyrrhotite

Copper

Underground

7inc

NATIONAL MINERAL INVENTORY:

Gold

PAGE:

REPORT: RGEN0100

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**MINERALS** 

SIGNIFICANT: Galena

Arsenopyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Chalcopyrite

Pyrite

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Volcanogenic

TYPE: G06

Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

MODIFIER: Folded DIMENSION: 0500 x 0001

Metres

I ead

STRIKE/DIP: 100/20N

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5658591 EASTING: 309503

COMMENTS: Lenses up to 0.5 metres over 500 metre length; attitude of schistos-

Disseminated

ity intermittent.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP

Undefined Group

ISOTOPIC AGE: 387 +/- 4 Ma DATING METHOD: Zircon

MATERIAL DATED: Zircon

LITHOLOGY: Chlorite Schist Phyllite

HOSTROCK COMMENTS: Isotopic data from Preto and Schiarizza, 1985.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

**FORMATION** 

Eagle Bay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock

Assay/analysis

YEAR: 1977

**COMMODITY** Silver

**GRADE** 342.8000 16.5000

Grams per tonne Grams per tonne

Gold Copper

0.8000 1.9000 Per cent Per cent

Lead

Zinc

1.3000 Per cent

COMMENTS: Average from 3 samples. REFERENCE: Assessment Report 6680.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian to Mississippian part of  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ the Eagle Bay Formation. The rocks consist of phyllites and schists (EBA) derived from felsic to intermediate volcanic and volcaniclastic rocks. The strata strikes 070 to 110 degrees and dips 25 to 45 degrees north.

The Beca showings occur within a medium green chloritic schist containing lighter coloured siliceous clasts. The main showing is a 0.5 metre thick conformable sulphide-rich lens of rusty siliceous schist. Mineralization consists of fine grained pyrite, arsenopyrite, chalcopyrite, galena and sphalerite bands up to 2 centimetres thick. Three typical samples gave average assay values of 16.5 grams per

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

tonne gold, 342.8 grams per tonne silver, 1.9 per cent lead, 1.3 per cent zinc and 0.8 per cent copper (Assessment Report 6680).

Several other narrow conformable lenses of siliceous pyritic rock occur over 500 metres. One of these, 120 metres north of the main showing is a narrow mineralized zone containing pyrite, galena, chalcopyrite and sphalerite. The average of two grab samples gave 4.5 grams per tonne gold, 54.9 grams per tonne silver, 3.6 per cent lead, 0.6 per cent zinc and 1.8 per cent copper. A minor showing 400 metres north of this showing consists of a 10 centimetre pyrite-galena bed assaying 2.75 per cent lead with only trace copper, zinc and silver (082M 111).

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EMPR GEM 1973-113-114
EMPR MAP \*56
EMPR OF 1999-2; 1999-14
GSC MAP 48-1963; 5320G
GSC OF \*637
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Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region in GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 055

PAGE:

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 056

NATIONAL MINERAL INVENTORY: 082M13 W2

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5741967 EASTING: 321418

PAGE:

REPORT: RGEN0100

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NAME(S): TU

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 48 00 N LONGITUDE: 119 35 24 W ELEVATION: 1720 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trenches, dwg. No. 5 (Assessment Report 14233).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Diopside Sphalerite Vesuvianite Garnet Tremolite ALTERATION: Tremolite Garnet Diopside Vesuvianite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement Skarn

TYPE: K05 W skarn

SHAPE: Regular DIMENSION: 0030 x 0002

Metres STRIKE/DIP: 115/70N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Schist

**Biotite Gneiss** Skarn Muscovite Granite

HOSTROCK COMMENTS: A muscovite granite intrudes the gneiss and schist developing a skarn

along the schist-granite contact.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by the Shuswap Metamorphic Complex with granitic intrusives likely representing an extension of the Raft Batholith to the southwest.

A northerly trending muscovite granite unit separates a biotite gneiss unit to the west and a quartz mica schist unit to the east.

A skarn is developed along the contact between the granite and schist.

Tungsten mineralization occurs as scheelite crystals, up to

0.5 centimetre long, in a diopside-vesuvianite-garnet-tremolite skarn. Minor sphalerite occurs occasionally. The mineralized zone strikes 115 degrees and dips steeply north for about 30 metres with a width varying between 2 to 4 metres.

A 2.0 metre trench sample assayed 2.04 per cent tungsten. best diamond drill intersection was 0.49 per cent tungsten over 2.45 metres (Assessment Report 14380).

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GSC EC GEOL #17, pp. 14-157

GSC MAP 48-1963

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 057

NAME(S): ROSE, AMY-DEE, DEL,

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 07 30 N LONGITUDE: 119 41 24 W ELEVATION: 460 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole, Fig. 2 (Assessment Report 10782).

COMMODITIES: Zinc

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant
CLASSIFICATION: Sedimentary Hydrothermal
TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

F14 Sedimentary exhalative Zn-Pb-Ag SHAPE: Tabular

STRIKE/DIP: 130/25N DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Limestone

Dolomite Greenschist

HOSTROCK COMMENTS: Tshinakin Member.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The area is underlain by limestone of the Tshinakin member of the Eagle Bay Formation of Cambrian-Ordovician age. Bedding strikes about 130 degrees and dips 35 to 65 degrees northeast.

An east-west band, dipping 20 to 25 degrees north, of discontinuous layered, strands of dark-brown to grey-black coloured sphalerite occurs with dense white vein quartz within the limestone.

An approximate one metre width of similar mineralization was

intersected by drilling 130 metres down dip of the surface mineralization. Rotary drilling results returned anomalous gold and silver values which could not be confirmed by a second lab

(Assessment Report 14046).

Contact with underlying greenschist occurs at the bottom of the

drill hole.

**BIBLIOGRAPHY** 

EMPR AR \*1961-56

EMPR ASS RPT \*10782, \*14046, 15670

EMPR EXPL 1985-C100

EMPR MAP 56

EMR MP CORPFILE (Tombac Expl. Ltd.)

GSC MAP 48-1963 GSC OF 637 Placer Dome File

CODED BY: GSB DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 REVISED BY: LDJ

MINFILE NUMBER: 082M 057

FIELD CHECK: N

FIELD CHECK: N

PAGE:

NORTHING: 5667167 EASTING: 311766

NATIONAL MINERAL INVENTORY: 082M4 Zn1

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 058

NATIONAL MINERAL INVENTORY:

NAME(S): **KAJUN**, JUNE, SOBS, RENNING NO. 1, KAYJUN, PONGO

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W

BC MAP:

LATITUDE: 51 15 30 N LONGITUDE: 119 48 04 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Fig. No. 350-3 (Assessment Report 13334).

COMMODITIES: Silver 7inc I ead Copper Gold

**MINERALS** 

SIGNIFICANT: Sphalerite

Galena Calcite

Chalcopyrite Dolomite

Pyrite

Disseminated

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Replacement TYPE: I VEIN, Hydrothermal

VEIN, BRECCIA AND STOCKWORK

SHAPE: Irregular

MODIFIER: Faulted DIMENSION: 40 x

8 STRIKE/DIP: 180/25E TREND/PLUNGE: Metres

COMMENTS: Contact fault strike; surface exposure dimension.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

Paleozoic

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5682281 EASTING: 304557

REPORT: RGEN0100

667

LITHOLOGY: Phyllite

Limestone Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay
METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1984

SAMPLE TYPE: Chip

COMMODITY Silver Gold

**GRADE** 52.1000 Grams per tonne 0.9000 Grams per tonne

Lead 2.3800 Per cent 1.1800 Zinc Per cent COMMENTS: Average of several samples over a 40 metre strike length.

REFERENCE: Assessment Report 12733.

CAPSULE GEOLOGY

The property is underlain by Eagle Bay Formation rocks consisting of dark grey phyllites, siltstones and limestone of Eagle Bay Group Formation (Map 56).

The showing lies along a northerly trending contact between dark grey phyllite and siltstone and overlying limestone. The contact dips east at 15 to 25 degrees and is highly sheared and faulted.

A concordant lens of fine grained siliceous rock, generally

less than 1 metre thick, occurs within the limestone. Mineralization occurs within a thickened siliceous zone at the crest of a recumbent southwest-verging fold. Mineralization consists of galena, sphalerite, chalcopyrite and pyrite within pods and lenses of quartz, calcite and dolomite.

Irregular and discontinuous lenses of mineralized vein quartz also occur within the underlying metasediments. This mineralization is most common near the fault contact and is exposed in widths up to 8 metres.

Several chip samples over a strike length of 40 metres, across

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

the mineralized zone averaged 52.1 grams per tonne silver, 0.9 grams per tonne gold, 2.38 per cent lead and 1.18 per cent zinc (Assessment Report 12733). Sample widths are not specified, however, are likely from 1 to 4 metres.

#### **BIBLIOGRAPHY**

EMPR AR \*1961-48-49; 1968-168 EMPR ASS RPT \*4579, 4685, \*12733, \*13334, 14392, \*15483 EMPR EXPL 1983-161; 1984-121 EMPR FIELDWORK 1979, pp. 28-36; 1984, pp. 67-76 EMPR GEM 1973-115 EMPR MAP \*56 GSC MAP 48-1963 GSC OF 637 GCNL #228, 1985 PERS COMM Jacques Houle & Andris Kikanka, June 2002 WWW http://www.infomine.com/ Burton, A.D.K. (1984): Report on Kayjun Property, East Barriere Lake Area; Private Report to Primont Resources Ltd., location unknown Dawson, J.M. (1984): Report on the ADON Property, Adams Plateau-Barriere Distict, Kamloops Mining Division for Titan Resources Ltd., November 5, 1984, location unknown

Dickie, G.J., Preto, V.A. and Schiarizza, P.(in preparation 1986):

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Garratt, G. (1984): Report on the Kayjun (June) Showing, East Barriere Lake Area; Private Report to Northair Mines Ltd., location unknown Misener, D.J. and Mullan, A.W. (1980): Report on the Combined Airborne Magnetic and Electromagnetic Survey on the EBL and Kayjun Claim Groups, Kamloops Mining Division; Private Report to Western Mines Ltd., location unknown Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau-Clearwater Region in GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11 Scott, G.H. (1973): Report on the Geochemical Survey of the Kayjun Claim Group, East Barriere Lake, Kamloops M.D.; Private Report for Western Mines Ltd., location unknown EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 058

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 059

NAME(S): CC, C-C

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05W BC MAP:

LATITUDE: 51 19 30 N

LONGITUDE: 119 54 14 W ELEVATION: 710 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 3 (Assessment Report 6202).

COMMODITIES: Zinc. Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

Galena

Sphalerite

Chalcopyrite

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

Stratiform

Disseminated

Massive

NATIONAL MINERAL INVENTORY: 082M5 Cu3

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5689971

EASTING: 297681

Syngenetic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

Paleozoic

**Undefined Group** 

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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LITHOLOGY: Chlorite Schist

Limestone

Quartz Sericite Schist

Phyllite

Graphitic Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

INVENTORY

ORE ZONE: TRENCH

REPORT ON: N

CATEGORY: SAMPLE TYPE: Assay/analysis

Rock

YFAR: 1976

COMMODITY Silver

**GRADE** 

16.8000

Grams per tonne Per cent

Copper Lead

0.3400 1.7000

Per cent

Zinc

3.1000

Per cent

COMMENTS: 30 centimetres sample from trench.

REFERENCE: Assessment Report 6202.

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanics and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. The metavolcanics are intercalated with and overlain by limestone, graphitic argillite and phyllite.

The rocks trend northwest, with a prominent foliation dipping moderately to the southwest and locally striking 100 degrees with a

20 degree dip.
Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of the area quartz monzonite to granodiorite composition lies north of the area.

Mineralization at the CC showing comprises a thin band, 10 to 20 centimetres wide, of semi-massive pyrite, galena, sphalerite and chalcopyrite within a 1 to 2 metre horizon of siliceous pyritic schist enclosed within light silvery grey chlorite-sericite-quartz schist of felsic volcanic origin.

A 30 centimetre sample from a trench assayed 3.1 per cent zinc,

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 08:48:46 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

 $1.7~\mbox{per}$  cent lead,  $0.34~\mbox{per}$  cent copper and  $16.8~\mbox{grams}$  per tonne silver (Assessment Report 6202).

#### **BIBLIOGRAPHY**

EMPR AR 1929-225; 1966-144-145
EMPR ASS RPT 69, 70, 3333, \*6202, 6802, 6879, 11033, 14388
EMPR EXPL 1982-112,114; 1986-C115
EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76
EMPR MAP 53; \*56
EMPR OF 1999-2; 2000-7
EMR MP CORPFILE (Pacific Cassiar Limited; Vestor Explorations Ltd.; Seaforth Mines Ltd.; Craigmont Mines Ltd.)
GSC MAP 48-1963
GSC OF 637
Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 059

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 060

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

671

NAME(S): HARPER, ULTIMA, LUCKY BOY, WAH WAH, NB

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 20 30 N LONGITUDE: 119 51 34 W NORTHING: 5691703 EASTING: 300849

ELEVATION: 940 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: West sulphide band, Maps 1 & 2, (Assessment Report 6177).

Silver Gold COMMODITIES: Copper 7inc I ead

SIGNIFICANT: Pyrrhotite Pyrite Sphalerite Galena Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Stratabound Stratiform Disseminated Massive

CLASSIFICATION: Syngenetic TYPE: G06 Nor

Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Tabular

DIMENSION: 0100 x 0050 x 0008 Metres

COMMENTS: West sulphide band. STRIKE/DIP: 155/25W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Devonian GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Sericite Schist Phyllite

Gossan

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1983 Assay/analysis

> SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 24.0000 Grams per tonne

Gold 0.3700 Grams per tonne

Copper 2.1000 Per cent REFERENCE: Assessment Report 12442.

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanics and metasediments of the Devonian age part of the Eagle Bay Formation. The rocks consist of phyllites and schists derived from felsic to intermediate volcanic volcaniclastic rocks. The strata forms a homoclinal sequence with a moderate, uniform southwesterly dip. The Cretaceous Baldy Batholith lies to the north.

Mineralization occurs as stratabound bands of massive sulphides

Mineralization occurs as stratabound bands of massive sulphides consisting of pyrrhotite and pyrite and lesser chalcopyrite, sphalerite and galena. Two main sulphide bands, trending northwest and dipping southwest at 25 to 45 degrees, occur within quartz schist.

The westernmost sulphide band strikes over 100 metres, with up to 8 metre widths and over 50 metre depths. A 1 metre chip sample from an adit wall gave 0.41 per cent copper, 6.86 grams per tonne silver and 0.14 grams per tonne gold (Assessment Report 12442).

The easternmost sulphide band has a length of 210 metres, a vertical depth of at least 20 metres and variable widths. A grab sample at the northern end of the zone returned 2.1 per cent copper,

sample at the northern end of the zone returned 2.1 per cent copper, 24 grams per tonne silver and 0.37 grams per tonne gold (Assessment Report 12442). This band lies 175 metres northeast of the western band.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

In addition to the two main sulphide bands, a prominent gossan zone with sulphide outcrops and anomalous geochemical results lies 1000 metres southwest of the western sulphide band. Also, 300 metres northwest of the western band, a drill hole cut a 1 to 2 metre section assaying .93 per cent zinc and .18 per cent copper (Assessment Report 12442).

Drilling (Assessment Report 6177) in an area 400 metres northwest of the west sulphide band, intersected copper values from 0.15 per cent over 7.9 metres to 0.84 per cent over 4.9 metres.

#### **BIBLIOGRAPHY**

EM FIELDWORK 1998, pp. 297-306
EMPR AR 1927-189; 1962-60-61; 1963-59; 1965-159; 1966-145
EMPR ASS RPT 2627, 3716, \*6177, 11095, \*12442, \*12567, 13434, 14388, \*15802
EMPR EXPL 1976-E61-E62; 1982-116; 1983-160; 1986-C115
EMPR FIELDWORK 1978, pp. 31-37; 1984, pp. 67-76
EMPR GEM 1970-313-314; 1972-88
EMPR MAP 56
EMPR OF 1998-9; 1999-2; 2000-7; 2000-31
GSC MAP 48-1963
GSC OF 637
GSC SUM RPT 1921A, pp. 105, 106
Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau-Clearwater Area
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 060

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 061

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

673

NAME(S): RUTH

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

NORTHING: 5685957 EASTING: 305473

LATITUDE: 51 17 30 N LONGITUDE: 119 47 24 W ELEVATION: 640 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Fig. No. 350-3 (Assessment Report 13334); location of drilling (Property File Moore, 1966).

COMMODITIES: Silver Lead 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic TYPE: 105 Pc Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Phyllite

Limestone Siltstone Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1966 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

**GRADE** COMMODITY Silver

144.0000 Grams per tonne Gold 0.3400 Grams per tonne 0.1700 Per cent Copper Per cent Lead 4.7100 Per cent 7inc 8.8400

COMMENTS: 76 centimetre width. REFERENCE: Property File, (Moore T., 1966).

**CAPSULE GEOLOGY** 

The area is underlain by Devonian or older Eagle Bay Formation rocks consisting of dark grey phyllites, siltstones and limestone of unit EBGp (Map 56).

Scattered chalcopyrite, galena and sphalerite occurs in quartz

veins within metasediments.

A 76 centimetre drill core sample assayed 8.84 per cent zinc, 4.71 per cent lead, 0.17 per cent copper, 144 grams per tonne silver and 0.34 grams per tonne gold (Property File, Moore, 1966).

**BIBLIOGRAPHY** 

EMPR AR 1965-159; 1966-145

EMPR ASS RPT 4685, \*13334, 14392

EMPR MAP 56

EMPR OF 2000-7 EMPR PF (Moore, T. (1966): Barriere Lake Mines)

GSC MAP 48-1963

GSC OF 637

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL #228, 1985

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/05/20 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 061

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 062

NATIONAL MINERAL INVENTORY:

NAME(S): BAR-BARRIERE, TONY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

675

LATITUDE: 51 23 50 N

NORTHING: 5697894 EASTING: 300704

LONGITUDE: 119 51 54 W ELEVATION: 1000 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main showing, Fig. No. 235-2 (Assessment Report 10111).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite ALTERATION: Chlorite Sericite

Chloritic Sericitic

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown
CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Regular MODIFIER: Sheared

**DIMENSION:** 0150 x 0100 Metres STRIKE/DIP: 050/75N TREND/PLUNGE:

COMMENTS: Surface area of showing; attitude of mineralization.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous IGNEOUS/METAMORPHIC/OTHER **FORMATION** Baldy Batholith

LITHOLOGY: Quartz Monzonite Granodiorite

Quartz Vein Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

CAPSULE GEOLOGY

The property is underlain by quartz-monzonite and granodiorite of the Cretaceous Baldy Batholith. Later phase aplite dykes and quartz veins are common throughout the rock. Locally, the quartz monzonite is fractured, brecciated and altered. Locally, the quartz-

A 150 metres by 100 metre area, known as the Main showing, is a well fractured, brecciated and altered quartz-monzonite or granodiorite with disseminations and fracture coatings of MoS2. Alteration includes silicification, sericitization and chloritization. Grab samples indicated MoS2 content ranging from 0.15 to 0.35 per cent. A drill hole (DDH T 81-2) 700 metres to the east, intersected

similar mineralization with an assay of 0.03 per cent MoS2 over 15.2

metres (Assessment Report 10111).

**BIBLIOGRAPHY** 

EMPR AR 1964-99; 1966-144

EMPR ASS RPT \*8952, \*10111,\*10829 EMPR OF 2000-7

EMPR PF (Midgley, G.E. (1966): DDH Map)

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N DATE REVISED: 1986/05/20 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 063

NATIONAL MINERAL INVENTORY:

NAME(S): SITTING BULL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

676

LATITUDE: 51 20 40 N

NORTHING: 5692080 EASTING: 299121

LONGITUDE: 119 53 04 W ELEVATION: 760 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description (Annual Report 1927, p. 189).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Epigenetic

Noranda/Kuroko massive sulphide Cu-Pb-Zn 9S TREND/PLUNGE: TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au G06

DIMENSION: STRIKE/DIP: 090/29S

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Graphitic Argillite Quartz Chlorite Schist

Limestone Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1927 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

13.7000 Grams per tonne Silver

Copper 2.0000 Per cent

COMMENTS: 60 centimetre sample width. Trace gold.

REFERENCE: Annual Report, 1927.

CAPSULE GEOLOGY

The area is underlain by metavolcanics and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. The metavolcanics are intercalated with and overlain by limestone, graphitic argillite and phyllite.

The rocks trend northwest, with a prominent foliation dipping moderately to the southwest and locally striking east-west with a

29 degree dip to the south.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of quartz monzonite to granodiorite composition lies north of the area.

A 60 centimetre quartz vein mineralized with chalcopyrite occurs within schist. A sample across the 60 centimetres gave 2.0 per cent copper, 13.7 grams per tonne silver and trace gold (Annual Report 1927).

**BIBLIOGRAPHY** 

EMPR AR \*1922-146; \*1927-C189 EMPR ASS RPT 3333, 14388

EMPR EXPL 1986-C115

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 53; 56
EMPR OF 2000-7
GSC MAP 48-1963
GSC OF 637
Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):
Mineral Deposits of the Adams Plateau-Clearwater Area

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 063

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 064

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

REPORT: RGEN0100

678

NAME(S): NORTH STAR (NORTH SHOWING), ACE, ENERGITE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 21 15 N

NORTHING: 5693471 EASTING: 291428

LONGITUDE: 119 59 44 W ELEVATION: 1400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions (Annual Report 1935-D7-8, 1936-D36, 38-39).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Pyrite Chalcopyrite

ALTERATION: Ankerite

Silicific'n

ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Concordant Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic **Undefined Group** Eagle Bay Paleozoic Undefined Group Fennell

LITHOLOGY: Phyllite

Slate Siltstone Sandstone Limestone Chert Quartzite Quartz Vein

HOSTROCK COMMENTS: Mineralization consists of sulphide-bearing quartz veins which cut

sheared rocks along a faulted Fennell-Eagle Bay contact.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The property is underlain by Devonian to Permian age Fennell Formation rocks consisting of cherts and phyllites in the west and Mississippian age part of the Eagle Bay Formation rocks consisting of phyllites, siltstones and sandstones in the east. A 150 degree striking and steeply dipping fault, separating the two formations, has sheared and silicified the metasediments. The rocks generally strike 160 to 170 degrees and dip 50 to 90 degrees to the west, and in places, display rusty carbonate alteration. To the southeast is

a Mississippian limestone unit.

Mineralization consists of sphalerite and galena with minor pyrite and chalcopyrite in quartz veins within highly sheared phyllite pyritic quartzite and ferruginous limestone. The quartz veins are a few centimetres to a few metres wide and generally strike north-

northwest with near vertical dips.

**BIBLIOGRAPHY** 

EMPR AR 1927-188,190; \*1935-D7,8; \*1936-D36,38,39; 1939-93

EMPR ASS RPT 5039, 5363, 13766 EMPR EXPL 1975-57; 1976-63; 1978-E108; 1980-140; 1985-C105

EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76

EMPR GEM 1974-97 EMPR MAP 53; 56 EMPR OF 2000-7

GSC MAP 48-1963 GSC OF 637

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):
\*Mineral Deposits of the Adams Plateau-Clearwater Area
Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits
of the Adams Plateau-Clearwater Region in GSA Cordilleran Section
Meeting May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 064

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 065

NATIONAL MINERAL INVENTORY:

NAME(S): ENERGITE, ENARGITE, NORTH STAR (SOUTH SHOWING)

STATUS: Past Producer Underground MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

680

LATITUDE: 51 21 00 N NORTHING: 5693000 LONGITUDE: 119 59 34 W ELEVATION: 1540 Metres EASTING: 291603

LOCATION ACCURACY: Within 500M COMMENTS: Symbol (Map 53).

> COMMODITIES: Lead Silver 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

ALTERATION: Ankerite ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Concordant Hvdrothermal

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Po Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 165/50W DIMENSION: 0180 x 0120 Metres TREND/PLUNGE:

COMMENTS: Area of mineralized quartz veins; attitude of host rocks.

DOMINANT HOSTROCK: Metasedimentary

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

Mississippian ISOTOPIC AGE: 360 Ma

MATERIAL DATED: Conodont in limestone

Paleozoic Undefined Group Fennell

ISOTOPIC AGE: 360 Ma

LITHOLOGY: Phyllite

Chert Siltstone Slate Sandstone Limestone

HOSTROCK COMMENTS: Dating by Preto, et. al., 1980.

Fennell Fm rocks also occur in the area.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADF: Greenschist

CAPSULE GEOLOGY

The property is underlain by Devonian to Permian age Fennell Formation rocks consisting of cherts and phyllites in the west and Mississippian age Eagle Bay Formation rocks consisting of phyllites, siltstones and sandstones in the east. A fault striking 150 degrees and dipping steeply fault, separating the two formations, has sheared and silicified the metasediments. The rocks generally strike 160 to 170 degrees and dip 50 to 90 degrees to the west, and in places, display rusty carbonate alteration. To the east is a

Mississippian limestone unit. Mineralization consisting of galena and pyrite and lesser sphalerite and chalcopyrite, occurs within several quartz veins

within a northerly trending zone measuring about 200 by 120 metres. Individual veins and lenses vary from a few centimetres to several metres wide and vary in orientation, although northerly strikes and

moderate (40 to 50 degrees) easterly dips predominate.

**BIBLIOGRAPHY** 

EMPR AR 1927-188,190,191; \*1935-D7-8; \*1936-D36-39; 1939-93;

1954-A48

EMPR ASS RPT 5039, 5363, 9963, 12774, 13766

RUN DATE: 26-Jun-2003 MINFILE MAST RUN TIME: 08:48:46 GFOLOGICAL SUI

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 065

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 066 NATIONAL MINERAL INVENTORY: 082M5 Pb1

NAME(S): WHITE ROCK (L.4023)

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 17 50 N NORTHING: 5686875 LONGITUDE: 119 54 04 W ELEVATION: 1060 Metres **EASTING: 297752** 

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol (GSC Map 48-1963); centre of L. 4023.

COMMODITIES: Lead Silver 7inc Copper Gold

**MINERALS** 

Tetrahedrite Sphalerite Chalcopyrite

SIGNIFICANT: Galena ASSOCIATED: Quartz Calcite

ALTERATION: Azurite Malachite Oxidation

ALTERATION TYPE: Argillic MINERALIZATION AGE: Unknown

**DEPOSIT** 

Stockwork

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Po Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: 017/83E TREND/PLUNGE: DIMENSION: COMMENTS: Fault.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group Eagle Bay** 

LITHOLOGY: Dolomite

Marble Chlorite Phyllite Limestone Chlorite Schist

HOSTROCK COMMENTS: Tshinakin Member.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1950 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 92.6000 Grams per tonne

Gold 0.3400 Grams per tonne Lead 2.2000 Per cent Zinc 0.8000 Per cent

COMMENTS: 56 centimetre sample width. REFERENCE: Annual Report 1950.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older age Eagle Bay Formation rocks and the Tshinakin Limestone Member. The rocks include calcareous chlorite schist and fragmental schist derived

from mafic to intermediate volcanic and volcaniclastic rocks. The limestone is massive, light grey and finely crystalline.

Several parallel quartz veins of variable dimension, trending north-south and dipping steeply east, carry scattered patches of galena and tetrahedrite with minor azurite and malachite. The velocur within the schists and limestone and are associated with a The veins

north trending, steeply dipping fault zone.
A 56 centimetre sample assayed 2.2 per cent lead, 0.8 per cent zinc, 92.6 grams per tonne silver and 0.34 grams per tonne gold

(Annual Report 1950).

MINFILE NUMBER: 082M 066

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1921-347; \*1927-189; \*1928-212; \*1929-226; \*1930-191; \*1950-111-112

EMPR ASS RPT \*16190

EMPR FIELDWORK 1979, pp. 28-36; 1984, pp. 67-76

EMPR MAP 53; 56

GSC EC GEOL No. 8, p. 302

GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/11/09 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 066

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 067

NATIONAL MINERAL INVENTORY: 082M5 Cu2

PAGE:

REPORT: RGEN0100

684

NAME(S): ANACONDA, LYNX, IRON CAP, OK, LAVERNE KP5

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 19 45 N LONGITUDE: 119 55 04 W NORTHING: 5690473 EASTING: 296732

ELEVATION: 910 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Showing, Map 3 (Assessment Report 6202).

7inc Silver COMMODITIES: Copper I ead Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Galena Sphalerite

ALTERATION: Sílica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Stratiform Disseminated Massive

CHARACTER: Stratabound
CLASSIFICATION: Syngenetic
TYPE: G06 Nora Noranda/Kuroko massive sulphide Cu-Pb-Zn

DIMENSION: STRIKE/DIP: 090/18S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian-Mississipp. **Undefined Group** Eagle Bay

LITHOLOGY: Argillite

Limestone Phyllite Sericite Schist Chlorite Schist Granodiorite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by metavolcanics and metasediments of the Eagle Bay Formation of Devonian to Mississippian age. The  $\,$ volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. These are intercalated with and overlain by limestone, graphitic argillite and phyllite. The rocks trend east-west, with a prominent foliation dipping moder-

ately to the south.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the rocks. The Cretaceous Baldy Batholith of quartz

monzonite to granodiorite composition lies north of the area.

The Lynx showing consists of a 2 metre thick massive, pyrite lens with pyrrhotite, chalcopyrite, galena and sphalerite, within black

argillite and minor sericite schist.

About 300 metres to the south, old workings revealed an 8 metre silicified massive pyrite lens with minor chalcopyrite within quartzsericite and chlorite schist.

**BIBLIOGRAPHY** 

EMPR AR 1920-168; 1922-146; 1923-150; 1924-153; 1927-189-190;

1928-211; 1939-93 EMPR ASS RPT 69, 70, 3333, \*6202, 6879, 14388 EMPR EXPL 1976-E61; 1978-E107; 1982-112-113; 1986-C115

EMPR FIELDWORK 1984, pp. 67-76

EMPR MAP 53; 56

EMPR OF 1999-2; 2000-7

EMPR PF (\*1939 Report, 7 pages) GSC MAP 48-1963

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637
GSC SUM RPT 1921, Part A, pp. 105-106
GCNL #75, 1986
Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):
 Mineral Deposits of the Adams Plateau-Clearwater Area
Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits
 of the Adams Plateau-Clearwater Region in GSA Cordilleran Section
 Meeting May 1985, p. 16-10

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 067

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 068

NATIONAL MINERAL INVENTORY:

NAME(S): AXL 1, OCT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

686

LATITUDE: 51 03 30 N LONGITUDE: 119 35 24 W ELEVATION: 1850 Metres

NORTHING: 5659503 EASTING: 318502

LOCATION ACCURACY: Within 500M

COMMENTS: Trench, location Map (Assessment Report 7693).

COMMODITIES: Copper 7inc Lead Silver

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite

**DEPOSIT** 

Massive

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

DIMENSION: STRIKE/DIP: 170/15W TREND/PLUNGE:

COMMENTS: Attitude of strata.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Eagle Bay

**Undefined Group** 

LITHOLOGY: Schist Phyllitic Limestone Greenschist Graphitic Phyllite Chlorite Schist Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1979 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 8.9000 0.8900 Grams per tonne Copper Per cent Per cent Lead 0.0300 Per cent 0.1200

Zinc COMMENTS: The sample width is 0.5 metres. REFERENCE: Assessment Report 7693.

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Massive pyrite with chalcopyrite occurs within dark green uniform chlorite schist having a 170 degree strike and 15 degree westerly dip.

The zone is 0.5 metres thick and assayed 0.89 per cent copper, 0.03 per cent lead, 0.12 per cent zinc and 8.9 grams per tonne silver.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, pp. 223-246 EMPR ASS RPT 6513, \*7019, \*7693

EMPR EXPL 1977-E89; 1978-E103; 1979-110

EMPR MAP 56 EMPR OF 1999-2

GSC MAP 48-1963; 5320G

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/04/15 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 068

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 069

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5685949

EASTING: 297716

REPORT: RGEN0100

688

NAME(S): SILVER MINERAL, SILVER MINNOW

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05W BC MAP:

LATITUDE: 51 17 20 N

LONGITUDE: 119 54 04 W ELEVATION: 1300 Metres LOCATION ACCURACY: Within 1 KM COMMENTS: Descriptions.

> COMMODITIES: Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Calcite

**DEPOSIT** 

MINERALIZATION AGE: Unknown

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal TYPE: 105 F SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Chlorite Schist

Limestone

HOSTROCK COMMENTS: Tshinakin Member.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1925 SAMPLE TYPE: Rock

COMMODITY Silver GRADE

925.7000 Grams per tonne Gold 0.6900 Grams per tonne

COMMENTS: 61 centimetre sample width.

REFERENCE: Annual Report 1925, page 170.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older age part of the Eagle Bay Formation and the Lower Cambrian Tshinakin Limestone Member. The rocks include calcareous chlorite schist and fragmental schist derived from mafic to intermediate volcanic and The limestone is massive, light grey and volcaniclastic rocks.

finely crystalline.

Several parallel quartz veins of variable dimension, trending north-south and dipping steeply east, carry scattered patches of galena. The veins occur within the limestone and adjacent schist and are associated with a north trending fault zone.

A 61 centimetre sample assayed 50 per cent lead, 925.7 grams per tonne silver and 0.69 grams per tonne gold (Annual Report 1925).

**BIBLIOGRAPHY** 

EMPR AR 1923-150; 1924-153; \*1925-170; 1926-186; 1927-189; 1928-

212

EMPR FIELDWORK 1979, pp. 28-36

EMPR MAP 53; 56 GSC MAP 48-1963

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/05/16 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 069

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 070

NATIONAL MINERAL INVENTORY:

NAME(S): FORTUNA 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

690

LATITUDE: 51 21 30 N LONGITUDE: 119 57 44 W ELEVATION: 1570 Metres

NORTHING: 5693840 EASTING: 293767

LOCATION ACCURACY: Within 500M

COMMENTS: Trench, Fig. 3 (Assessment Report 14387).

COMMODITIES: Lead 7inc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite Galena Pyrrhotite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 040/90E TREND/PLUNGE:

COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartzite

Quartz Sericite Schist

Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1986 CATEGORY: Assav/analysis SAMPLE TYPE: Rock

GRADE

COMMODITY Silver 1001.0000 Grams per tonne Gold 0.3800 Grams per tonne 4,3200 Lead Per cent Per cent 33.0000 7inc

COMMENTS: 25 centimetre sample width. REFERENCE: Assessment Report 14387.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older part of the Eagle Bay Formation consisting of micaceous quartzite and sericite-quartz schist. Local foliation strikes 135 degrees with a 5 degree northeast dip. The Cretaceous Baldy Batholith lies 1 kilometre to the north.

Mineralization consists of pyrite, chalcopyrite, galena and sphalerite within a 040 degree striking, steep dipping quartz vein. The vein is 25 centimetres wide and a sample across it assayed 4.32 per cent lead, 33.0 per cent zinc, 1001 grams per tonne silver and 0.38 grams per tonne gold (Assessment Report 14387).

**BIBLIOGRAPHY** 

EMPR AR \*1927-188,190

EMPR ASS RPT 4136, 12200, \*14387, 14388

EMPR EXPL 1986-C115,C117 EMPR MAP \*53; 56

EMPR OF 2000-7 EMPR P 1987-2 GSC MAP 48-1963 GSC OF 637

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau-Clearwater Area

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 070

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Gold

MINFILE NUMBER: 082M 071

NATIONAL MINERAL INVENTORY:

NAME(S): KUNO

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M05W BC MAP: LATITUDE: 51 22 10 N

NORTHING: 5695028 EASTING: 294977

PAGE:

REPORT: RGEN0100

692

LONGITUDE: 119 56 44 W ELEVATION: 2000 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and rough map (Annual Report 1927-188, 190); this showing

may be further south than indicated.

COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: 105 Pc

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEINS REPORT ON: N

> YEAR: 1927 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

GRADE 357.0000 COMMODITY Silver

Grams per tonne 23.0000 Per cent I ead

COMMENTS: From three quartz veins over 24 metre width. Trace gold. REFERENCE: Annual Report 1927, page C190.

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older part of the Eagle Bay metasediments and metavolcanics. The Cretaceous Baldy

Batholith lies to the north.

Three quartz veins, carrying galena, occur over a 24 metre width within schist. A grab sample assayed 23 per cent lead, 357

grams per tonne silver, and trace gold.

**BIBLIOGRAPHY** 

EMPR AR \*1927-188,190 EMPR ASS RPT 14388 EMPR EXPL 1986-C115 EMPR MAP 53; 56 EMPR OF 2000-7 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 072

NATIONAL MINERAL INVENTORY:

NAME(S): FORTUNA 1, KIDZICKS

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

693

LATITUDE: 51 20 40 N

NORTHING: 5692233 **EASTING: 295252** 

MINING DIVISION: Kamloops

LONGITUDE: 119 56 24 W ELEVATION: 1400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol (MAP 53).

COMMODITIES: Lead Silver 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Magnetite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

TYPE: I05 Polyme DIMENSION: 0040 x 0003 Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 360/90E TREND/PLUNGE: Metres COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: DUMP

> CATEGORY: YEAR: 1987 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 3426.0000 Grams per tonne 0.3500 Grams per tonne Gold 0.0800 Per cent Copper 34.1000 Per cent Lead Zinc 0.1300 Per cent

REFERENCE: Assessment Report 16108.

**CAPSULE GEOLOGY** 

The area is underlain by Devonian age rocks of the Eagle Bay Formation consisting of flat lying chlorite-sericite-quartz schist overlain by siliceous pyritic sericite-quartz schist. The Cretaceous Baldy Batholith lies 1.5 kilometres to the north.

Mineralization consists of coarse-grained pods of galena with minor pyrite in quartz veins 2.4 to 3.0 metres dide and 30 to 46 metres long. The residue are still a series of the series of the series with series and the series of the series of the series with series and the series of the series of the series with series with series of the seri metres long. The veins strike north-south and dip vertical. A sample from the dump assayed 34.10 per cent lead and 3426 grams per

tonne silver (Assessment Report 16108).

**BIBLIOGRAPHY** 

EMPR AR \*1927-188,190

EMPR ASS RPT 14388, 14770, 16108

EMPR EXPL 1986-C115,C117 EMPR MAP \*53; 56

EMPR OF 2000-7 EMPR P 1987-2 GSC MAP 48-1963

GSC OF 637

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

\*Mineral Deposits of the Adams Plateau-Clearwater Area

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/10/09 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 072

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 073

NATIONAL MINERAL INVENTORY:

NAME(S): KUNIGUNDE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M05W BC MAP:

NORTHING: 5695553 EASTING: 297321

PAGE:

REPORT: RGEN0100

695

LATITUDE: 51 22 30 N

LONGITUDE: 119 54 44 W ELEVATION: 1700 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and rough map (Annual Report 1927-188, 190); this showing may be further south than indicated.

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Pc

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Mississippian **GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

**Undefined Group** 

LITHOLOGY: Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older part of the Eagle Bay Formation rocks and the Cretaceous Baldy Batholith.

A north-south striking quartz vein with scattered inclusions of

galena occurs within schist.

**BIBLIOGRAPHY** 

EMPR AR \*1927-188,190

EMPR MAP 53; 56 EMPR OF 2000-7 GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/15 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N GSB

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 074

NATIONAL MINERAL INVENTORY:

NAME(S): MAFALDA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M05W BC MAP: LATITUDE: 51 22 50 N

NORTHING: 5696171 EASTING: 297346

PAGE:

REPORT: RGEN0100

696

LONGITUDE: 119 54 44 W ELEVATION: 1700 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and rough map (Annual Report 1927-188, 190); this showing may be further south than indicated.

COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: 105 Pc

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by the Devonian or older part of the Eagle Bay Formation rocks and the Cretaceous Baldy Batholith. A north-south striking quartz vein, 50 centimetres wide, with

scattered inclusions of galena occurs within schist.

**BIBLIOGRAPHY** 

EMPR AR \*1927-188,190 EMPR MAP 53; 56 EMPR OF 2000-7

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/15 FIELD CHECK: N FIELD CHECK: N CODED BY: GSB REVISED BY: LDJ

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 075

NATIONAL MINERAL INVENTORY:

NAME(S): ACACIA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

697

NTS MAP: 082M04W BC MAP:

NORTHING: 5663554 EASTING: 300922

IGNEOUS/METAMORPHIC/OTHER

LATITUDE: 51 05 20 N LONGITUDE: 119 50 34 W ELEVATION: 1000 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: No definite location available.

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Galena

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** 

Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Phyllite

Quartz Sericite Biotite Schist

Quartzite

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Kootenay

CAPSULE GEOLOGY

The area is underlain by the Devonian or older part of the Eagle Bay Formation rocks consisting of phyllite, sericitic quartzite and

quartz biotite schist.

Two seams (10 to 20 centimetres wide) of lead-zinc

mineralization lies conformable within the schists.

In 2000, Eagle Plains Resources acquired 4800 hectares of claims about the Acacia showing. Mineralization at the showing is believed to be the strike extension of the package that hosts the volcanogenic massive sulphide Rea Gold deposit (082M 191) located 6.5 kilometres to the north. Eagle Plains completed an initial survey

of the property in 2000; futher work is planned in 2001.

**BIBLIOGRAPHY** 

EMPR AR \*1926-186 EMPR MAP 56

GSC MAP 48-1963 GSC OF 637

GCNL #118(June 20), 2000 N MINER July 31, 2000

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/25 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 076

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

698

NAME(S): AX

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5676964 EASTING: 306103 LATITUDE: 51 12 40 N LONGITUDE: 119 46 34 W ELEVATION: 1300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 5 (Assessment Report 13126).

COMMODITIES: Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Galena Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Concordant Disseminated

CHARACTER: Vein CLASSIFICATION: Replacement

TYPE: E14 S SHAPE: Irregular Sedimentary exhalative Zn-Pb-Ag 105 Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Faulted

DIMENSION: COMMENTS: Contact. STRIKE/DIP: 080/28N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Mississippian **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Eagle Bay

LITHOLOGY: Phyllite Limestone Greenstone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by metasediments and metavolcanics of the Devonian or older part of the Eagle Bay Formation. A lower, mainly volcanic unit, consists of greenstone, derived from mafic volcanics. An upper, mainly sedimentary unit, consists of sericite-quartz phyllite, limestone and quartzite. The formation strikes from 070

to 160 degrees and dips from 5 degrees to 40 degrees northeast.

Mineralization occurs along the contact between the limestone and underlying phyllites. The phyllites are graphitic close to the contact which is often marked by a layer of soft, light-grey clay gouge. The contact zone is mineralized with veins and pods of quartz, up to 2 metres thick containing sparse to abundant pyrite and

occassionally galena and chalcopyrite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13126

EMPR MAP 56 GSC MAP 48-1963 GSC OF 637

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/05/01 FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 077

NATIONAL MINERAL INVENTORY:

NAME(S): TRIDENT CR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Golden

NTS MAP: 082M16E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 57 00 N NORTHING: 5756010 EASTING: 426998

LONGITUDE: 118 03 44 W ELEVATION: 750 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Intersection of Trident Creek and Kinbasket Lake.

COMMODITIES: Niobium Thorium Uranium

**MINERALS** 

SIGNIFICANT: Pyrochlore Nepheline Sodalite Staurolite **Kyanite** 

Fluorite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Residual

Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Mesozoic IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal **FORMATION** 

LITHOLOGY: Nepheline Syenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay

COMMENTS: A nepheline syenite stock lies within the Kootenay Terrane

**CAPSULE GEOLOGY** 

Placer uranium, thorium and niobium occur in Trident Creek, possibly derived from the nepheline syenite body at the head of the

creek.

**BIBLIOGRAPHY** 

EMPR AR \*1959-104-105

EMPR AR "1959-104-105 EMPR FIELDWORK 1985, pp. 255-260 EMPR OF 1987-17, pp. 48-50; 1991-10 EMPR PF (\*Russel, F.T. (1956): Report on #223 Prospecting, 1956) GSC OF 551

GSC P 64-32

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/13 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 077

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 078

NATIONAL MINERAL INVENTORY: 082M16 Pb1

NAME(S): MOGUL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082M16E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

700

LATITUDE: 51 55 10 N LONGITUDE: 118 01 54 W ELEVATION: 900 Metres NORTHING: 5752581 EASTING: 429049

LOCATION ACCURACY: Within 500M

COMMENTS: From descriptions and Cominco Geology Map, (Property File).

COMMODITIES: Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Sedimentary Massive

Sedimentary exhalative Zn-Pb-Ag

TYPE: E14 S SHAPE: Irregular MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Horsethief Creek Upper Proterozoic Undefined Formation

LITHOLOGY: Quartzite

Mica Schist Argillite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

Rocks in the area are probable Upper Proterozoic Horsethief Creek Group consisting of crystalline limestone overlain by quartzite and underlain by metamorphosed black argillite. The rocks are iso-

clinally folded and dip about 50 degrees to the southwest.

The original discovery is in quartzite and quartz-mica schist The original discovery is in quartzite and quartz-mica schist in the apex of a sharp fold surrounded by crystalline limestone estimated to be 30 metres or more thick. Quartz masses roughly follow the bedding but also break across it in the fractured apex of the fold in quartzite. A length of about 12 metres of quartz lenses in quartzite is exposed on the northwesterly limb of the fold, in masses up to 1.8 metres wide. Coarsely cubic galena occurs in masses as much as 0.6 metre across.

Limestone replacement by sphalerite and galena, in 8 to 10centimetre bands, occurs in the northwesterly limb of the same

fold (Annual Report, 1951).

**BIBLIOGRAPHY** 

EMPR AR 1899-594; 1900-980; 1948-153; 1949-208; 1950-158; \*1951-

192; 1959-90,99,104

EMR MP CORPFILE (Kootenay Explorations Limited)

GSC MAP 12-1964

GSC OF 637 GSC P 64-32, pp. 27,35

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/03/13 REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 079

NATIONAL MINERAL INVENTORY:

NAME(S): **GRAHAM CREEK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M09W BC MAP:

LATITUDE: 51 42 40 N

LONGITUDE: 118 24 44 W ELEVATION: 1650 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol (Preliminary Map 25).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Residual

Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Upper Proterozoic

GROUP
Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5729852

EASTING: 402430

REPORT: RGEN0100

701

LITHOLOGY: Schist

Amphibolite Marble Quartzite Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

**CAPSULE GEOLOGY** 

Underlying rocks in the area belong to the Upper Proterozoic Horsethief Creek Group. They consist of calcareous pelitic schists, amphibolites, marbles and quartzites.

Gold occurs in quartz veins around the heads of McCulloch and Graham creeks. These veins are thought to have been the source of the placer gold. The placer gold occurs as coarse grains and nuggets close to the bedrock and as fine colours in the gravels and surface sort. The gold is also angular and slightly porous.

**BIBLIOGRAPHY** 

EMPR AR 1898-1061

EMPR EXPL 1983-164-165 EMPR MAP 25

GSC MAP 12-1964

GSC OF 637 GSC P 64-32, p. 34 GSC SUM RPT \*1928, Part A, pp. 158,192

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: LDJ DATE REVISED: 1986/03/11

MINFILE NUMBER: 082M 079

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 080

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

EASTING: 400882

REPORT: RGEN0100

702

NAME(S): STANMACK, OLE BULL, BONANZA KING (L.2658)

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

NTS MAP: 082M09W BC MAP: LATITUDE: 51 42 20 N NORTHING: 5729264

LONGITUDE: 118 26 04 W ELEVATION: 1900 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of Ole Bull shaft, Fig. 6 (Assessment Report 11860).

COMMODITIES: Gold Mica Silver Tungsten

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Gold Scheelite Chalcopyrite

Galena Tetrahedrite Mica

COMMENTS: Green chromium mica. (Fuchsite). Ankerite

ASSOCIATED: Quartz ALTERATION: Ankerite ALTERATION TYPE: Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Discordant Industrial Min.

CLASSIFICATION: Epigenetic TYPE: I01 Au IN2 Au-quartz veins Intrusion-related Au pyrrhotite veins

Undefined Formation

SHAPE: Irregular

HOST ROCK

Upper Proterozoic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Quartzite Schist Greenstone

Horsethief Creek

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

**RELATIONSHIP:** GRADE: METAMORPHIC TYPE: Regional

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1942 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Per cent Tungsten 9.1000

COMMENTS: May not have been assayed for other metals. REFERENCE: Property File (Newmarch, C.B., 1942).

CAPSULE GEOLOGY

Underlying rock types consist of metasedimentary rocks interlayered with mafic volcanic rocks. The metasediments consist of quartites, schists, phyllites, calcareous schists and carbonates. The metavolcanics are tholeiitic flows and mafic tuffs metamorphosed to greenstone and chloritic phyllite. The rocks exposed are correlated to Hoy's (Bulletin 71) Metavolcanic-Phyllite Division and Quartzite Schist Division of probable Lower Paleozoic Hamill Group and Upper Proterozoic Horsethief Creek Group (Assessment Report 11860).

Phase 2 and phase 3 folds are developed in an inverted stratigraphic panel. Predominant schistosity is east to southeast with dips commonly at 20 degrees east.

Two sets of quartz veins occur in the area. The commonly mineralized discordant veins strike 10 to 20 degrees and dip 70 to 85 degrees west. They range 0.15 to 4 metres in width. Barren veins, concordant with bedding, although with steeper dips, are up to 3metres thick.

The mineralized veins are composed essentially of milky quartz and often contain minor pyrite and green chrome mica and lesser

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

pyrrhotite. Scheelite occurs in some of the gold-bearing veins. The gold occurs both in the quartz veins and in the country rock immediately adjacent to the auriferous veins.

immediately adjacent to the auriferous veins.

Quartz veins in the Ole Bull shaft area lie within calcareous phyllites. A grab sample assayed 44.6 grams per tonne gold. A tungsten assay by Newmarch (1942) gave 9.1 per cent tungsten. A grab sample in the Ole Bull adit gave 371.0 grams per tonne silver (Assessment Report 11860).

#### **BIBLIOGRAPHY**

EM OF 1999-3
EMPR AR 1886-202; 1895-691; 1896-536; 1898-1059,1192; 1922-214-215; 1959-105-106
EMPR ASS RPT \*10393, \*11101, \*11860, \*13235
EMPR BULL 1, p. 119; 20, Part II, p. 17; 71
EMPR EXPL 1982-121; 1983-164-165; 1984-128-129
EMPR FIELDWORK 2000, pp. 231-252
EMPR MAP 25
EMPR OF 1991-17, 1999-3
EMPR PF (\*Newmarch, C.B. (1942): Ole Bull Tungsten)
GSC MAP 12-1964; 237A
GSC OF 637
GSC P 64-32, p. 33
GSC SUM RPT \*1928, Part A, pp. 154,155,158,159
GCNL Oct 25, 1982
IPDM March/April 1984, p. 11
N MINER April 26, 1984
W MINER April, 1984
WWW http://www.orphanboy.com/gstream.html

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/03/12 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 080

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 081

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5727445 EASTING: 399118

IGNEOUS/METAMORPHIC/OTHER

NTS MAP: 082M09W

LATITUDE: 51 41 20 N LONGITUDE: 118 27 34 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol (Preliminary Map 25).

COMMODITIES: Gold

MINERALIZATION AGE: Unknown

Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Upper Proterozoic

GROUP
Horsethief Creek

Undefined Formation

LITHOLOGY: Schist

Amphibolite Marble Quartzite Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

CAPSULE GEOLOGY

Underlying rocks in the area belong to the Upper Proterozoic Horsethief Creek Group. They consist of calcareous pelitic schists, amphibolites, marbles and quartzites.

**FORMATION** 

Gold occurs in quartz veins around the heads of McCulloch and Graham creeks. These veins are thought to have been the source of the placer gold. The placer gold occurs as coarse grains and nuggets close to the bedrock and as fine colours in the gravels and surface sort. The gold is also angular and slightly porous.

**BIBLIOGRAPHY** 

EMPR AR 1885-499; 1886-204; 1887-268; 1889-267,279; 1890-356, 363; 1893-1043; 1894-743; 1895-690; 1896-535; 1898-1057,1061; 1901-139; 1904-115-116; 1906-149-150; 1908-91; 1912-K143;

1917-151,193; 1924-204; 1925-259; 1926-270; 1928-311; 1929-330; 1931-147; 1934-E34; 1939-A110; 1940-97; 1950-105-106;

1960-85

EMPR ASS RPT 10393, Appendix 1

EMPR BULL 20, Part II, p. 17; 21, p. 23; 28, pp. 52-54, Fig. 3 EMPR EXPL 1982-121; 1983-164-165; 1984-128-129

EMPR MAP 25

GSC ANN RPT 1887-88, V. III, Part II, pp. 133R-134R GSC MAP 12-1964; 237A

GSC OF 637

GSC P 64-32, p. 34 GSC SUM RPT \*1928, Part A, pp. 154,156,158,192

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/11

CODED BY: GSB REVISED BY: LDJ

MINFILE NUMBER: 082M 081

FIELD CHECK: N FIELD CHECK: N

PAGE: 704 REPORT: RGEN0100

NAME(S): MCCULLOCK CR

STATUS: Past Producer REGIONS: British Columbia

BC MAP:

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer.

DEPOSIT

CLASSIFICATION: Residual

CHARACTER: Unknown

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 082

NATIONAL MINERAL INVENTORY: 082M15 Zn1

NAME(S): RUDDOCK CR (Q,R,U,V ZONES), IN, TO

STATUS: Developed Prospect REGIONS: British Columbia NTS MAP: 082M15W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

705

LATITUDE: 51 46 40 N LONGITUDE: 118 57 04 W ELEVATION: 1525 Metres NORTHING: 5738123 EASTING: 365399

MINING DIVISION: Kamloops

LOCATION ACCURACY: Within 500M

COMMENTS: V zone, (Bulletin 57, pp. 48-57, Fig. 9).

COMMODITIES: Zinc. Silver Fluorite **Barite** I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Galena Pyrite Chalcopyrite

Fluorite Barite Fluorite Barite

ASSOCIATED: Quartz **Epidote** MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound Disseminated Massive Industrial Min. Exhalative Replacement

CLASSIFICATION: Sedimentary TYPE: E14 Sedimentary S01 Sedimentary exhalative Zn-Pb-Ag Broken Hill-type Pb-Zn-Ag±Cu

SHAPE: Tabular

MODIFIER: Folded DIMENSION: 1000 x 2 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: U-V synform, axial plane strikes 005 degrees and dips 25 degrees west.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

Calc-silicate Gneiss Marble Mica Schist Calc-silicate Schist **Pegmatite** 

Granitic Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Monashee Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The property lies on the northwest flank of Frenchman Cap Dome in a complexly and isoclinally folded metasedimentary sequence. The core gneisses of the dome lie beneath gently, north dipping metasedimentary rocks, which grade upward into the overlying metasediments consisting of micaceous schist, calc-silicate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic rocks replace and impregnate the metasediments. The metasediments are tentatively correlative with the Hadrynian Windermere Group.

Three mineralized areas, referred to as the E, F, G, M Zone, (see 082M 084) the T Zone (see 082M 083) and the Q, R, V, U Zone, occur as contorted layers and lenses, several metres thick and are traced intermittently over a strike length of several kilometres within schist, siliceous calc-silicate gneiss, quartzite and marble. The principal sulphides are sphalerite, pyrrhotite, galena, pyrite and minor chalcopyrite, locally associated with barite and fluorite. Very fine-grained sphalerite and pyrrhotite with minor galena and rounded quartz eyes are common. Equally common are layers containing medium grained dark brown sphalerite with interstitial quartz and scattered quartz augen. Galena and sphalerite also occur as scattered

grains in marble, calcareous quartzite and fluorite.
In the sulphide layer, lenses of massive sulphides up to 1.5 metres thick are common. They are complexly folded within themselves on axis which plunge to the west parallel to the folds in the surrounding rocks. The folds in the sulphides, which are outlined by the banding and by discontinuous layers of schist, gneiss and quartzite, are irregular in form and usually disharmonic.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The Q, R and V Zones, which lie 4 kilometres west of the main E Zone, form a near continuous sulphide layer, outcropping for almost 1 kilometre, on the limb of a Phase 1 syncline. The U Zone lies 1 kilometre along strike to the east.

kilometre along strike to the east.

A major Phase 2 recumbent fold, closing to the south, is referred to as the U - V synform. Its axial plane strikes 5 degrees and dips 25 degrees to the west.

 $\bar{\text{In}}$  1999 Doublestar Resources Ltd. plans to acquire the property from Falconbridge Limited.

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GSC OF 637

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EMPR OF 2000-22
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/03/27 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 082

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 083 NATIONAL MINERAL INVENTORY: 082M15 Zn1

NAME(S): RUDDOCK CR (T ZONE), IT

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M15W

BC MAP:

LATITUDE: 51 46 10 N LONGITUDE: 118 55 34 W ELEVATION: 2150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of T zone, (Bulletin 57, pp. 48-57, Fig. 9).

COMMODITIES: Zinc. Silver Fluorite **Barite** I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Fluorite Pyrrhotite Galena Pyrite Chalcopyrite

Barite ASSOCIATED: Quartz Fluorite Barite **Epidote** 

ALTERATION: Epidote ALTERATION TYPE: Epidote MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated Massive

CLASSIFICATION: Sedimentary Exhalative Replacement Industrial Min.

TYPE: E14 SHAPE: Tabular S01 Sedimentary exhalative Zn-Pb-Ag Broken Hill-type Pb-Zn-Ag±Cu

MODIFIER: Folded

DIMENSION: 1000 x 2 Metres STRIKE/DIP: COMMENTS: T-synform, axial plane strikes 020 degrees and dips 25 degrees west. TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

Calc-silicate Gneiss

Marble

Calc-silicate Schist Mica Schist Peamatite Granitic Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains Kootenay

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The property lies on the northwest flank of Frenchman Cap Dome in a complexly and isoclinally folded metasedimentary sequence. core gneisses of the dome lie beneath gently, north dipping metasedimentary rocks, which grade upward into the overlying metasediments consisting of micaceous schist, calc-silicate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic rocks replace and impregnate the The metasediments are tentatively correlative with metasediments. the Hadrynian Windermere Group.

Three mineralized areas, referred to as the E, F, G, M Zone, (see 082M 084) the T Zone and the Q, R, V, U Zone, (see 082M 082), occur as contorted layers and lenses, several metres thick and are traced intermittently over a strike length of several kilometres within schist, siliceous calc-silicate gneiss, quartzite and marble. The principal sulphides are sphalerite, pyrrhotite, galena, pyrite and minor chalcopyrite, locally associated with barite and fluorite. Very fine-grained sphalerite and pyrrhotite with minor galena and rounded quartz eyes are common. Equally common are layers containing medium grained dark brown sphalerite with interstitial quartz and scattered quartz augen. Galena and sphalerite also occur as scattered grains in marble, calcareous quartzite and fluorite.

In the sulphide layer, lenses of massive sulphides up to 1.5 metres thick are common. They are complexly folded within themselves on axis which plunge to the west parallel to the folds in the surrounding rocks. The folds in the sulphides, which are outlined by

MINFILE NUMBER: 082M 083

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5737151 EASTING: 367099

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

the banding and by discontinuous layers of schist, gneiss and quartzite, are irregular in form and usually disharmonic.

The mineralized T Zone, lying 2 kilometres west-southwest of the main E Zone, is traced intermittently for 1 kilometre on the limb of a Phase 1 syncline. A major Phase 2 recumbent fold, closing to the south, is referred to as the T synform. Its axial plane strikes 20 degrees and dips 25 degrees to the west.

In 1999, Doublestar Resources Ltd. plans to acquire the property

from Falconbridge Limited.

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Section, GAC 1979 meeting, p. 18
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DATE CODED: 1985/07/24 DATE REVISED: 1986/03/27 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 083

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: <u>082M\_084</u> NATIONAL MINERAL INVENTORY: 082M15 Zn1

NAME(S): **RUDDOCK CREEK** 

STATUS: Developed Prospect MINING DIVISION: Kamloops REGIONS: British Columbia

NTS MAP: 082M15W BC MAP:

LATITUDE: 51 46 35 N

LONGITUDE: 118 54 04 W ELEVATION: 2300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main E zone (Bulletin 57, pp. 48-57, Fig. 9).

COMMODITIES: Zinc Lead Silver

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Galena Pyrite Chalcopyrite
ASSOCIATED: Quartz Fluorite Barite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated Massive

CLASSIFICATION: Sedimentary Exhalative

TYPE: S01 Broken Hill-type Pb-Zn-Ag±Cu SHAPE: Tabular

MODIFIER: Folded

DIMENSION: 240 x 150 x 15 Metres STRIKE/DIP: 025/35W TREND/PLUNGE:

F14

COMMENTS: Main E zone

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

 STRATIGRAPHIC AGE
 GROUP
 FORMATION
 IGNEOUS/METAMORPHIC/OTHER

 Proterozoic-Paleoz.
 Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

Calc-silicate Gneiss

Marble

Calc-silicate Schist Mica Schist Pegmatite Granitic Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: RUDDOCK CREEK REPORT ON: Y

CATEGORY: Indicated YEAR: 1982

QUANTITY: 5000000 Tonnes

COMMODITY GRADE
Lead 2.5000 Per cent

Zinc 7.5000 Per cent

COMMENTS: Drill indicated.

REFERENCE: CIM Bulletin, April 1982, page 119.

**CAPSULE GEOLOGY** 

The Ruddock Creek property lies on the northwest flank of Frenchman Cap Dome with the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex. The core gneisses of the dome lie beneath gently north dipping metasedimentary rocks consisting of micaceous schist, calc-silicate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic rocks

replace and impregnate the metasediments.

The structure in the area is dominated by repetitive folding, followed by faulting. Earlier phase 1 folds are isoclinal and obscure. Notably, one large isoclinal syncline, with the main mineralized zone (E zone) at the hinge, trending 285 degrees and plunging 28 degrees, is recognized. Later phase 2 folds are more open and well-displayed. The axis of the phase 1 fold is essentially parallel to the axis of the phase 2 folds, with axial planes striking 020 to 030 degrees and dipping 20 to 30 degrees west.

Two general types of faulting occur in the area. The first

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5737878

EASTING: 368844

Sedimentary exhalative Zn-Pb-Ag

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

type, along the G and M showings, are irregular but fairly continuous branching zones of mylonite striking north and dipping 20 to 50 degrees west. The second type are late block faults, the most important lying west of the E Zone and displacing the main orebody down on the west. On the average, the fault strikes north and dips 58 degrees west.

Three mineralized areas, referred to as the E, F, G, M zone, (see 082M 084), the T zone and the Q, R, V, U zone, (see 082M 082), occur as contorted layers and lenses, several metres thick and are traced intermittently over a strike length of several kilometres within schist, siliceous calc-silicate gneiss, quartzite and marble.

The principal sulphides are sphalerite, pyrrhotite, galena, pyrite and minor chalcopyrite, locally associated with barite and fluorite. Very fine-grained sphalerite and pyrrhotite with minor galena and rounded quartz eyes are common. Equally common are layers containing medium-grained dark brown sphalerite with interstitial quartz and scattered quartz augen. Galena and sphalerite also occur as scattered grains in marble, calcareous quartzite and fluorite.

In the sulphide layer, lenses of massive sulphides up to 1.5 metres thick are common. They are complexly folded within themselves on axes which plunge to the west parallel to the folds in the surrounding rocks. The folds in the sulphides, which are outlined by the banding and by discontinuous layers of schist, gneiss and quartzite, are irregular in form and usually disharmonic.

quartzite, are irregular in form and usually disharmonic.

The E zone (main showing), outcropping at 2300 metres elevation, is 240 metres long and widens from 15 metres across the strike at the east end to 60 metres across the open limbs at the west. The F zone, at 2000 metres elevation, occurs along strike 600 metres southwest of the E zone. The F zone is traced for 180 metres on surface. Five hundred metres west of the E zone, between 2240 and 2500 metres elevation, are a disjointed series of small mineralized showings referred to as the G zone. This zone continues 600 metres to the north to the M zone, which is at an elevation between 2470 and 2620 metres. This zone measures about 10 by 150 metres.

metres. This zone measures about 10 by 150 metres.

Drill indicated reserves at Ruddock Creek are 5 million tonnes grading 2.5 per cent lead and 7.5 per cent zinc (Canadian Institute of Mining and Metallurgy Bulletin, April 1982, page 119).

of Mining and Metallurgy Bulletin, April 1982, page 119).
In 1999, Doublestar Resources Ltd. acquired the property from Falconbridge Limited and began mapping in 2000.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/03/27 REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 085 NATIONAL MINERAL INVENTORY: 082M9 Cu1

NAME(S): MONTGOMERY, MONT

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 32 25 N NORTHING: 5710740 LONGITUDE: 118 19 28 W ELEVATION: 1625 Metres EASTING: 408150

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Fig. 4 (Assessment Report 10180).

COMMODITIES: Copper Silver Gold 7inc

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz Pyrite Chalcopyrite Sphalerite Gárnet **Epidote** Actinolite

ALTERATION: Silica **Epidote Epidote** 

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated Massive

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Syngenetic Besshi massive sulphide Cu-Zn

TYPE: G04 SHAPE: Tabular MODIFIER: Folded

DIMENSION: 0770 x 0375 x 0004 Metres STRIKE/DIP: 070/40N TREND/PLUNGE:

COMMENTS: Maximum exposure of sulphide bed (Assessment Report 10180, p. 20).

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau Index

LITHOLOGY: Mica Schist

Calc-silicate Gneiss

Amphibolite Phyllite Sericite Quartzite

Limestone Dolomite

Calcareous Phyllite Schistose Greenstone

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenav

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1981

SAMPLE TYPE: Channel

COMMODITY **GRADE** Silver 3.2000 Grams per tonne Gold 0.0140 Grams per tonne Copper 1.7600 Per cent 0.2410 Per cent Zinc

COMMENTS: Sample width 2.0 metres.

REFERENCE: Assessment Report 10180, Fig. 4.

CAPSULE GEOLOGY

The Montgomery showings are a series of lenses of massive sulfides and disseminated sulfides in micaceous chloritic schist and sericitic quartzite of the metavolcanic-phyllite division of the Lower Paleozoic Upper Index Formation. Thin limestone and impure dolomite layers, calc-silicate gneiss, calcareous phyllite and massive to schistose greenstone layers are common in the immediate vicinity of the showings. This succession, believed to be right way up, is immediately underlain by calc-silicate gneiss, calcareous schist, amphibolite and locally skarn adjacent to the Goldstream

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

pluton, and a thick succession of quartzite and pelitic schist of the quartzite-schist division. To the northeast it is overlain by more calcareous rocks and a thick marble of the carbonate-phyllite division (Economic Geology, Vol. 79, No. 5).

Mineralization consists of disseminated pyrrhotite occurrences

Mineralization consists of disseminated pyrrhotite occurrences over a distance of 1200 metres and massive sulphide beds composed largely of pyrrhotite and lesser chalcopyrite and pyrite. The stratabound massive sulphide mineralization, from 1 to 3.5 metres thick has been traced intermittently along strike for about 770 metres and through a vertical distance of 375 metres. The horizon strikes approximately west northwesterly and dips from 40 to 45 degrees north.

The Montgomery deposits are hosted by the same lithologic unit as the Goldstream deposit which is considered to be 'Besshi-type'. A 2.0 metre channel sample assayed 1.76 per cent copper, 0.24 per cent zinc, 3.2 grams per tonne silver, and 0.014 grams per tonne gold (Assessment Report 10180).

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EMPR MAP 25

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 086 NATIONAL MINERAL INVENTORY: 082M7 Zn1

NAME(S): COTTONBELT, COTTON BELT (L.2105), SHUSWAP, SNOW, BASS, TARTAR, QUEST, MOUNTAIN CHIEF

STATUS: Developed Prospect REGIONS: British Columbia Underground MINING DIVISION: Kamloops

NTS MAP: 082M07W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 26 50 N NORTHING: 5701136 LONGITUDE: 118 49 24 W EASTING: 373296

ELEVATION: 1850 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of main sulphide deposit (Map 43); also see Complex (082M 125)

and Copper King (082M 144).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Pyroxene Magnetite Galena Pyrrhotite **Garnet** Amphibole Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated Massive CLASSIFICATION: Sedimentary Exhalative

TYPE: S01 Broken Hill-type Pb-Zn-Ag±Cu E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular STRIKE/DIP: 145/35W TREND/PLUNGE: DIMENSION: 76 x Metres

COMMENTS: Main ore shoot exposed on surface; sulphide layer traced

intermittently 5 kilometres along strike.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Siliceous Calcareous Schist Garnet Sillimanite Schist

Quartzite Limestone Micaceous Schist Calcareous Schist

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: COTTONBELT REPORT ON: Y

> CATEGORY: QUANTITY: Unclassified YEAR: 1996

725000 Tonnes **COMMODITY GRADE** 

Silver 58.3000 Grams per tonne Per cent I ead 5.0000

Zinc 6.0000 Per cent COMMENTS: Lead and zinc are estimated; 11 per cent combined lead and zinc. REFERENCE: Information Circular 1996-1, pages 23, 25.

ORE ZONE: COTTON BELT REPORT ON: N

> CATEGORY: Unclassified YEAR: 1982

QUANTITY: 1000000 Tonnes COMMODITY **GRADE** 

Silver 50.0000 Grams per tonne Lead 6.0000 Per cent Zinc 2.0000 Per cent

COMMENTS: Less than 1 million tonnes. REFERENCE: CIM Bulletin, April 1982, page 119.

CAPSULE GEOLOGY

The property lies within the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex along the northwestern margin of the Frenchman

MINFILE NUMBER: 082M 086

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists and locally intruded by carbonatite.

The metasediments comprise the limbs of the Grace Mountain syncline, a tight isoclinal fold trending southeasterly.

The mineralized zones occur on both limbs of the syncline within the 'Cottonbelt Sequence', a heterogeneous package of dominantly calcareous rocks (Fieldwork, 1978). At the base of the Cottonbelt sequence is a buff-weathering carbonatite layer overlain by calcareous schists and a calcareous to relatively pure white quartzite. A distinctive grey-weathering, white limestone overlies the quartzite, which is overlain by interlayered micaceous and calcareous schists and an impure grey-weathering crumbly limestone. The sulphide layer, enveloped by a thin layer of very siliceous calcareous schist and garnet sillimanite schist, defines the top of the Cottonbelt sequence.

The mineralization comprises an oxide-sulphide layer, traced intermittently through a strike length of 5 kilometres in the western (upper) limb (Cotton Belt zone) of the Grace Mountain syncline and 2 kilometres in the lower limb (McLeod zone). It varies in thickness from a few tens of centimetres to approximately 2 metres.

Mineralization generally consists of coarse-grained sphalerite, magnetite, galena and minor pyrrhotite in a dark green, pyroxene-amphibole-quartz-garnet 'skarn' rock or, as layers within a lighter coloured, more siliceous calcareous gneiss, or as disseminated grains in a siliceous granular marble.

in a siliceous granular marble.

The mineralized zones are parallel with bedding in the metasediments and dip about 35 degrees southwest. Several adits, shafts and raises have exposed mineralization intermittently over a strike distance of 1650 metres. The main ore zone, as exposed on surface, is up to 3.7 metres wide and 76 metres long.

About 2.5 kilometres northwest of the main zone, within the same stratigraphic unit, are several smaller occurrences of sulphides (see Copper King (082M 144)). The McLeod zone (082M 125) lies about 460 metres northeast of the Cotton Belt zone.

metres northeast of the Cotton Belt zone.

Unclassified reserves of the Cotton Belt zone are less than 1 million tonnes grading 6 per cent lead, 2 per cent zinc and 50 grams per tonne silver (Canadian Institute of Mining and Metallurgy Bulletin, April 1982, page 119).

In 1995, with Explore B.C. Program support, CanQuest Resource Corporation completed geological and geophysical surveys and 1937 metres of diamond drilling in 27 holes, confirming the great lateral extent but limited and very variable thickness of the deposit due to intense and complex deformation of the hostrocks (Explore B.C. Program 95/96 - M70). Resources are estimated at 725,000 tonnes grading 11 per cent combined lead and zinc (about 5 per cent lead and 6 per cent zinc) and 58.3 grams per tonne silver (Information Circular 1996-1, pages 23, 25).

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EMPR OF 1992-1; 1994-8; 1998-10; 2000-22
EMPR P 1991-4, pp. 71-88
EMPR PF (*Allen, A.R. (1966): Report on the Cottonbelt Property;
    Canquest Resource Corporation Website (Mar 1999): Cottonbelt
    Property, 11 p.; See OK, 092K 008 - Canquest Resource Corporation Corporate Profile Report (circa 2000), 9 p.)
EMR MIN BULL MR 223 B.C. 74
EMR MP CORPFILE (Seymour Mining Corporation Limited; Cotton Belt
   Mines Limited; Great Northern Petroleum & Mines Ltd.)
GSC EC GEOL 20, p. 304; 1, p. 506
GSC MAP 12-1964
GSC OF 637
GSC P 64-32, p. 28
```

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

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CIM Vol.75, No.840, pp. 119,121,123 (Hoy, T. 1982)
EMJ July 1952, Vol.153, No.7, p. 156
GCNL Oct.25, 1983
Kovacik, J.C. (1977): Report on the Shuswap Joint Venture Project,
Cottonbelt Claims; internal company report for Metallgesellschaft
Canada Ltd.
Levin, P., McClaren, M. and Dickinson, R. (1976): Geological report
on the Cottonbelt Pb/Zn occurrence 60 miles N. of Revelstoke, B.C.;
internal company report for Metallgesellschaft Canada Ltd./United
Mineral Services Ltd.
W MINER Feb. 1979, p. 15
WWW http://www.canquest.bc.ca/cottonbe.htm

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1996/11/08 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 086

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 087

NATIONAL MINERAL INVENTORY:

Albitic

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716

 $\mbox{NAME(S): } \underline{\textbf{STERLING}}_{\mbox{ROBINA}}, \mbox{STIRLING, HARDPAN}$ 

STATUS: Showing MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082M08W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 23 00 N LONGITUDE: 118 24 24 W NORTHING: 5693393 EASTING: 402112

ELEVATION: 603 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Diamond Drill Hole 81-2, Fig. 2 (Assessment Report 9329).

Silver COMMODITIES: Molybdenum Lead 7inc Gold

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Galena Sphalerite Pyrrhotite

ASSOCIATED: Quartz Albite Rutile ALTERATION: Fuchsite
ALTERATION TYPE: Quartz-Carb. Carbonate Silica Albite Chlorite Sericitic Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant Disseminated

CLASSIFICATION: Replacement TYPE: \* Unknown Pegmatite

Unknown

SHAPE: Irregular DIMENSION: 0040 x 0012 STRIKE/DIP: 015/35W TREND/PLUNGE: Metres

COMMENTS: Dimension: Surface exposure and width indicated by drilling; length

unknown.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cambrian Lardeau Undefined Formation

LITHOLOGY: Quartzite

Limestone

Quartz Chlorite Muscovite Schist Graphitic Schist Chlorite Muscovite Magnetite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> Assay/analysis YEAR: 1981 CATEGORY:

SAMPLE TYPE: Drill Core COMMODITY

**GRADE** Per cent Molybdenum 4.6700

COMMENTS: 2 metre width. REFERENCE: Assessment Report 9329.

**CAPSULE GEOLOGY** 

The showings are underlain by Lardeau Group metasediments consisting of sericitic impure quartzite, quartz-chlorite-muscovite schist, graphite schist, crystalline limestone and chlorite-muscovite-magnetite schist. The rocks have a general strike of 015 degrees and

a 30 degree northwest dip.

Molybdenite and galena occurs in concordant pegmatite-like sills and in quartz and quartz-albite veins. Pyrite and pyrrhotite are disseminated throughout the rocks and traces of chalcopyrite and sphalerite occur.

Fuch site, albite, and rutile are associated with molybdenum and feldspars are locally altered to epidote, sericite, and chlorite (sausseritization).

**BIBLIOGRAPHY** 

EMPR AR 1902-299; 1931-148; 1932-180,181

EMPR ASS RPT 539, \*9329

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL \*9, pp. 70-73 EMPR EXPL 1980-141-142, Fig. E-1 EMPR FIELDWORK \*1981, p. 56 EMPR GEM 1970-464; 1971-441 GSC EC GEOL \*20, pp. 46,302-303 GSC MAP 12-1964; 1045A-M3 GSC OF 637 GSC P 64-32, p. 34

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/03/03 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 087

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 088

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5699319 EASTING: 399329

REPORT: RGEN0100

718

NAME(S): **KEYSTONE 1** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 26 10 N

LONGITUDE: 118 26 54 W ELEVATION: 640 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization, Dwg. 1 (Assessment Report 9721).

COMMODITIES: Zinc. Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz Pyrite Chalcopyrite Sphalerite

Chlorite Sericite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive

CLASSIFICATION: Replacement

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Faulted

STRIKE/DIP: 090/30S DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Lardeau Undefined Formation

LITHOLOGY: Chlorite Schist

Quartz Sericite Schist

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The property is underlain by metasedimentary and metavolcanic

rocks of the Lardeau Group.

The showing consist of a conformable layer of massive sulphides within quartz-chlorite schist. The layer strikes 090 degrees and dips between 0 and 30 degrees to the south. Sulphide mineralization includes massive pyrrhotite, pyrite with minor chalcopyrite and sphalerite. The layer varies in thickness from 6 to 20 centimetres and is

about 12 metres long. The extremities appear to be faulted.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6097, \*6704, \*9721, 14351, 16089

EMPR OF 1999-2 GSC MAP 12-1964; 237A

GSC OF 637 GSC P 64-32

GSC SUM RPT 1929, Part A

WWW http://www.infomine.com/

DATE CODED: 1985/07/24 DATE REVISED: 1987/11/09 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 089 NATIONAL MINERAL INVENTORY: 082M8 Zn2

NAME(S): **KEYSTONE**, KS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 27 50 N NORTHING: 5702268 LONGITUDE: 118 20 34 W ELEVATION: 2100 Metres EASTING: 406722

LOCATION ACCURACY: Within 500M

COMMENTS: Main adit symbol 2, (Bulletin 71, pp. 28-31, Fig. 2).

COMMODITIES: Lead 7inc Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz Sphalerite Galena Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Vein CLASSIFICATION: Replacement Stratabound Massive

Epigenetic

Sedimentary exhalative Zn-Pb-Ag 105 Polymetallic veins Ag-Pb-Zn±Au

TYPE: E14 SHAPE: Tabular TREND/PLUNGE:

DIMENSION: STRIKE/DIP: 045/15S COMMENTS: Strike and dip of metasediments.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

**FORMATION** STRATIGRAPHIC AGE Cambrian IGNEOUS/METAMORPHIC/OTHER Lardeau Index

LITHOLOGY: Limestone

Quartzite Pelitic Schist Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: YEAR: 1976 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Silver GRADE 17.8000 2.0000 Grams per tonne Gold Grams per tonne Per cent Copper 0.2700 Per cent Lead 1.0000 Per cent Zinc 0.2500

COMMENTS: One metre sample width. REFERENCE: Assessment Report 6235.

CAPSULE GEOLOGY

The Keystone property is underlain by quartzites, phyllites and schists of probable Lower Paleozoic Lardeau Group and isolated inliers of the Badshot limestone. Showings on the property consist of con-

of the Badshot limestone. Showings on the property consist of conformable replacements in limestone and discordant fault controlled vein type occurrences with a quartz gangue.

The main showing is at an elevation of 2120 metres and has been exposed by trenching to reveal a band approximately 1 metre by 15 metres of replaced limestone. Mineralization consists dominantly of pyrrhotite, sphalerite, galena, pyrite and minor chalcopyrite. A one metre sample assay yielded 1.0 per cent lead, 0.25 per cent zinc. 0.27 per cent copper. 2.0 grams per tonne gold, and 17.8 grams zinc, 0.27 per cent copper, 2.0 grams per tonne gold, and 17.8 grams per tonne silver (Assessment Report 6235).

A second trench, 400 metres northwest of the main showing, exposes a crosscutting mineralized quartz vein within quartz-chloritesericite phyllite. The vein contains coarse grained pyrite and minor sphalerite and galena.

A lead-zinc showing, 650 metres south of the main showing, occurs

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

in limestone. A grab sample assayed 0.31 per cent lead, 0.2 per cent zinc and 6 grams per tonne silver (Assessment Report 10768). A showing, 700 metres northeast of the main showing, consists of a quartz vein with pyrrhotite, sphalerite and galena. A grab sample yielded 0.48 per cent lead, 0.15 per cent zinc and 26 grams per tonne silver.

#### **BIBLIOGRAPHY**

EMPR AR 1898-1059; 1905-148,152; 1912-144; 1929-330 EMPR ASS RPT \*6187, 6235, \*6612, \*7177, 10768 EMPR BULL \*71, pp. 28-31 EMPR EXPL 1976-E65-66; 1977-E95-96; 1978-E110; 1979-E111; 1982-119 EMPR MAP 25 GSC MAP 12-1964; 237A

GSC OF 637 GSC P 64-32, p. 32 GSC SUM RPT 1928, Part A, pp. 154,188-189

 DATE CODED:
 1985/07/24
 CODED BY:
 GSB
 FIELD CHECK:
 N

 DATE REVISED:
 1986/03/03
 REVISED BY:
 LDJ
 FIELD CHECK:
 N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 090 NATIONAL MINERAL INVENTORY: 082M8 Cu1

NAME(S): STANDARD BASIN, STANDARD

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 23 05 N NORTHING: 5693345 LONGITUDE: 118 14 44 W ELEVATION: 2100 Metres EASTING: 413326

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol (Bulletin 71, pp. 27-31, 44-45, Fig. 2).

COMMODITIES: Copper Gold 7inc Talc Silver

Asbestos

**MINERALS** SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite Talc

Asbestos

ASSOCIATED: Quartz ALTERATION: Talc Dolomite Serpentine Carbonate Chlorite Mica

ALTERATION TYPE: Talc Serpentin'zn Carbonate Chloritic

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Stratabound Massive

CLASSIFICATION: Volcanogenic Hydrothermal TYPE: G04 Besshi massive sulphide Cu-Zn Hydrothermal Replacement Industrial Min. M06

Ultramafic-hosted asbestos

M07 Ultramafic-hosted talc-magnesite SHAPE: Regula MODIFIER: Folded Regular

COMMENTS: Mineralized layer traced intermittently over a strike length of 1500

metres on the east limb of an antiform.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau Index

LITHOLOGY: Greenstone

**Phyllite** Serpentinite Limestone Chlorite Schist

Deposit hosted in mafic metavolcanics and phyllite of the upper Index HOSTROCK COMMENTS:

Formation (Geological Survey of Canada Paper 83-1A).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenav

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADF: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1976

SAMPLE TYPE: Grab COMMODITY

GRADE Silver 29.0000 Grams per tonne Gold 1.0000 Grams per tonne Copper 9.9800 Per cent 0.8400 Per cent

COMMENTS: Sample of massive, fine-grained pyrite and chalcopyrite.

REFERENCE: Geology in British Columbia, 1976, page 36.

CAPSULE GEOLOGY

The Standard property, on Standard Peak, is 41 kilometres north of Revelstoke in the Selkirk Mountains, northeast of the Columbia  $\,$ River. The property has been worked discontinuously since 1896 as

a copper-silver-zinc-gold prospect.

Ultramafic pods lie in a metasedimentary phyllite unit, within the upper Index Formation of the lower Paleozoic Lardeau Group (Geological Survey of Canada Paper 83-1A). The pods, consisting of coarse-grained, brown weathering talc-chlorite-serpentine-dolomite, are repeated as part of the Standard anticline. The anticline

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

consists of metamorphosed volcanics and sediments, crystalline limestone, pyritic graphitic schists, grey sericite schists and hornblende-feldspar-chlorite schists.

Massive sulphide mineralization, consisting of a series of layers and lenses of massive pyrrhotite and pyrite with minor chalcopyrite and sphalerite, is most dominant within the greenstones on both sides of the Standard antiform. On the east limb, mineralization can be traced intermittently through a strike length of 1500 metres. Drill holes have intersected massive sulphide sections from 0.2 to 2 metres thick.

Talc occurs admixed with carbonate and serpentine, sometimes with chrome-mica veining, along broad zones of alteration in greenstone. In the No. 2 and No. 3 adits "pure", light green talc is reported to occur in shears in serpentine, along with a lesser amount of slip-fibre asbestos.

A grab sample of massive fine-grained pyrite and chalcopyrite assayed 1 gram per tonne gold, 29 grams per tonne silver, 0.84 per cent zinc and 9.98 per cent copper (Geology in British Columbia, 1976 p. 36).

#### **BIBLIOGRAPHY**

```
EMPR AR 1898-1059; 1899-671; 1900-809; 1901-1016; 1902-139,190; 1904-115; 1905-151; 1906-137,252; 1907-218; 1912-144; 1917-181; 1919-150; *1921-155-156; 1926-155

EMPR ASS RPT *6070, *6187, 11140

EMPR BULL 71, pp. 27-31, 41-45, Fig. 2

EMPR EXPL 1976-66; 1977-95-96

EMPR FIELDWORK 1976, pp. 17-22

EMPR GEOL *1976, pp. 36-40

EMPR MAP 25

EMPR OF 1988-19; 1995-25; 1999-2

EMPR PF (Hughes, B.B. (1977): Summary of Drilling Done on the Standard Property)

GSC MAP 12-1964; 237A

GSC OF 481

GSC P 64-32; 83-1A, pp. 203-206

GSC SUM RPT 1928, Part A, pp. 162-165

Hoy, T., Gibson, G. and Berg, N.W., 1984 (EG V. 79, No. 5, pp. 789, 792,796,799-800)

Placer Dome File
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/02/25 REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 091 NATIONAL MINERAL INVENTORY: 082M8 Zn4

NAME(S): ROSEBERRY, SALISBURY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 18 40 N NORTHING: 5685082 LONGITUDE: 118 10 44 W ELEVATION: 1680 Metres EASTING: 417834

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol on Map 12-1964.

COMMODITIES: Gold Silver Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Pyrrhotite Tetrahedrite Sphalerite Galena

ALTERATION: Járosite Malachite Scorodite Azurite Carbonate

Goethite Sericite

ALTERATION TYPE: Silicific'n Oxidation Sericitic Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Irregular

**HOST ROCK** DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE FORMATION **GROUP** IGNEOUS/METAMORPHIC/OTHER Badshot

Lower Cambrian Lardeau

> LITHOLOGY: Graphitic Quartz Phyllite Banded Limestone Sericite Phyllite Quartzite

HOSTROCK COMMENTS: Includes Hamill Formation of Lower Cambrian age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by northwest striking, easterly dipping, isoclinally folded sediments and metasediments of the Badshot and

Hamill Formations.

The Hamill Formation contains quartzites, quartz-sericite, chlorite-sericite, and graphitic quartz phyllites. The Badshot

Formation consists of banded limestones.

A mineralized zone in the Hamill quartzite contains oxidized and leached pyrite lenses with jarosite staining and sericite alteration. A second zone, several hundred metres northeast of the first zone, contains erratic sulphide pods of tetrahedrite, galena, pyrite, sphalerite, malachite, azurite, scorodite, and jarosite occupying shear zones within the Badshot limestone. Soil and rock samples taken from these zones indicate anomalous values of gold, silver, lead,

zinc, and copper.

**BIBLIOGRAPHY** 

EMPR AR 1896-537; 1898-1059,1060; 1899-671,846; 1900-809;

1917-151; 1933-212

EMPR ASS RPT 614, 12616, \*14405 EMPR EXPL 1982-118; 1986-C121

EMR MP CORPFILE (Westairs Mines Ltd.)

GSC MAP 12-1964; 237A

GSC P 64-32, p. 33 GSC SUM RPT \*1928, Part A, p. 159

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 091

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 092

NATIONAL MINERAL INVENTORY:

NAME(S): HAIL COLUMBIA

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10E BC MAP:

UTM ZONE: 11 (NAD 83)

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NORTHING: 5723473 EASTING: 382698

MINING DIVISION: Revelstoke

LATITUDE: 51 39 00 N LONGITUDE: 118 41 44 W ELEVATION: 550 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS:

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Residual

Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex **FORMATION** 

LITHOLOGY: Schist

Gravel Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Selkirk Mountains

**CAPSULE GEOLOGY** 

Placer gravel up to 5 metres thick overlies blue clay one metre thick which rests on bedrock. Best values came from boulder-clay

that overlies the gravel.

**BIBLIOGRAPHY** 

EMPR AR 1937-E43-44; 1938-E45; 1939-A110; 1940-A97

GSC MAP 12-1964

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/11 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 093

NATIONAL MINERAL INVENTORY:

NAME(S): **ROUGE**, MAD RIVER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M12E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

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LATITUDE: 51 42 20 N LONGITUDE: 119 31 24 W ELEVATION: 1300 Metres NORTHING: 5731304 EASTING: 325651

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Rouge Claims (Property File, White, 1982).

COMMODITIES: Lead Silver Gold 7inc Copper

**MINERALS** 

Galena

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 Polyme SHAPE: Regular DIMENSION: 0035 x 0005

STRIKE/DIP: 140/30W TREND/PLUNGE: Metres

COMMENTS: Quartz sulphide vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Granitic Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1935 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY 631.0000 15.5000 Silver Grams per tonne Per cent I ead

3.7000 Per cent 7inc

REFERENCE: Property File: Plan, Mad River Group showings, 1935.

**CAPSULE GEOLOGY** 

The area is underlain by the Shuswap Metamorphic Complex. Pyrite and galena occur in a northwest trending, southwest dipping quartz-sulphide lens within a quartz-feldspar-muscovite granite

gneiss.

A 2 metre chip sample assayed 3.3 per cent lead, 113.5 grams per tonne silver and 0.03 per cent copper, and trace gold (Property File, White, 1982). A 2.4 by 2.4 metre chip sample assayed 5.9 per cent lead and 391 grams per tonne silver and a grab sample assayed 15.5 per cent lead, 3.7 per cent zinc and 631 grams per tonne silver (Property File; Plan, Mad River Group Showings, 1935).

**BIBLIOGRAPHY** 

EMPR AR 1887-273; 1888-313; 1889-289; 1890-376; 1894-750; 1901-

1083

EMPR PF (\*White, G.P.E. (1982): Memorandum, Map and Sample Results;

\*(1935): Plan, Mad River Group Showings)

GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 094 NATIONAL MINERAL INVENTORY: 082M1 Zn4

NAME(S): **LEAD KING**, EUREKA (L.9124), ADAIR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 13 35 N NORTHING: 5675574 LONGITUDE: 118 05 54 W ELEVATION: 1830 Metres EASTING: 423307

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 5, Map 12-1984 (GSC Paper 84-32, p. 30).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ALTERATION TYPE: Silicific'n Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement

Sedimentary exhalative Zn-Pb-Ag

TYPE: E14 S SHAPE: Irregular MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Cambrian **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Lardeau Badshot

LITHOLOGY: Limestone Dolomite

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The showings occur in northeasterly dipping limestones and dolomites. The carbonates and adjoining phyllites to the southeast are isoclinally folded and highly sheared.

Four or five lenses of sphalerite and galena are exposed along the dolomite band for about 60 metres and are concentrated in a poorly

defined zone a few metres wide.

**BIBLIOGRAPHY** 

EMPR AR 1898-1060; 1899-672; 1900-809; 1910-248; 1917-152; \*1959-

117-118

EMPR ASS RPT \*5724, 6522 EMPR EXPL 1975-E56

EMR MP CORPFILE (Le Man's Resources Ltd.)

GSC MAP 12-1964, 4404G GSC OF 637

GSC P 84-32, p. 30 GSC SUM RPT 1928, Part A, p. 190 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/02/27 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 094

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 095 NATIONAL MINERAL INVENTORY: 082M1 Zn8

NAME(S): **COPELAND CREEK**, BONGO

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 09 40 N
LONGITUDE: 118 27 59 W
ELEVATION: 2100 Metres
LOCATION ACCURACY: Within 500M NORTHING: 5668763 EASTING: 397463

COMMENTS: Fig. 2, (Bulletin 57, pp. 37, 58).

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite

**DEPOSIT** 

**HOST ROCK** 

Massive

CHARACTER: Vein
CLASSIFICATION: Epigenetic
SHAPE: Regular

MODIFIER: Fractured DIMENSION: 0046 x 0002

STRIKE/DIP: 015/70E TREND/PLUNGE: Metres

COMMENTS: Attitude of fracture.

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Gneiss

**Granitic Gneiss** Lamprophyre

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence lies on the southern flank of the Frenchman Cap Dome, along the eastern margin of the Shuswap Metamorphic Complex. Underlying rocks include dominantly granite orthogneiss and minor paraneiss of the core of the dome.

Mineralization occurs along a fracture which strikes 015 degrees and dips 70 degrees east. The mineralized core is up to 2 metres wide and extends along the western slope of a cliff for approximately 46 metres. Masses of galena and sphalerite up to 60 centimetres thick lie on either side of a lamprophyre dyke. The dyke is highly altered, suggesting that the sulphide mineralization is later than the dyke.

**BIBLIOGRAPHY** 

EMPR BULL 57, pp. 37,58 EMPR MAP 43

GSC MAP 12-1964; 4404G

GSC OF 637 GSC P 64-32

PR REL International Arimex Resources Inc., November 28, 2002

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/02/20 FIELD CHECK: N

MINFILE NUMBER: 082M 095

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 096

NATIONAL MINERAL INVENTORY: 082M1 Zn7

NAME(S): HIREN CREEK, BINGO

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

728

LATITUDE: 51 05 02 N LONGITUDE: 118 22 54 W ELEVATION: 1120 Metres

NORTHING: 5660062 EASTING: 403226

MINING DIVISION: Revelstoke

LOCATION ACCURACY: Within 500M

COMMENTS: (Bulletin 57, pp. 37, 57-58, Fig. 2).

COMMODITIES: Lead Fluorite 7inc

**MINERALS** 

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite Pyrite Fluorite

**DEPOSIT** 

CHARACTER: Vein Disseminated
CLASSIFICATION: Epigenetic Industrial Min.
TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Regular MODIFIER: Faulted

DIMENSION: 0006 x 0002 STRIKE/DIP: 360/75W TREND/PLUNGE: Metres

COMMENTS: Attitude of fracture.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Marble Mica Schist Dolomite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Monashee

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The occurrence lies on the southern flank of the Frenchman Cap Dome, along the eastern margin of the Shuswap Metamorphic Complex. Underlying rocks include calc-silicate gneiss and marble comprising

part of the domal covering gneisses.

A north trending fracture, adjacent to a major north trending fault, dips 75 degrees west and transects grey mica schist and a layer of buff-weathered fine-grained dolomite. Galena, sphalerite and pyrite are disseminated over a 2 by 6 metre area west of the fracture. South of this showing are masses of purple fluorite.

**BIBLIOGRAPHY** 

EMPR BULL \*57, pp. 37,57-58 EMPR MAP 43

EMPR OF 1992-16

GSC MAP 12-1964; 4404G GSC OF 637

GSC P 64-32 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/02/20 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIFLD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 097

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5723981 EASTING: 387515

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

729

NAME(S): WEST COLUMBIA, COLUMBIA RIVER

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 39 20 N LONGITUDE: 118 37 34 W ELEVATION: 500 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: From descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Residual

Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

**FORMATION** 

TERRANE: Monashee

**CAPSULE GEOLOGY** 

The area is underlain by metasediments of the Shuswap Metamorphic

Complex.

**BIBLIOGRAPHY** 

EMPR AR 1889-267,279; 1894-743; 1895-691

EMPR BULL \*28, p. 53, Fig. 3 GSC MAP 12-1964 GSC OF 637

GSC P 64-32, p. 34

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N

REVISED BY: LDJ DATE REVISED: 1986/03/11 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 098

NATIONAL MINERAL INVENTORY:

NAME(S): MONARCH

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

730

NTS MAP: 082M10E BC MAP: LATITUDE: 51 40 00 N

NORTHING: 5725204 EASTING: 388119

LATITUDE: 51 40 00 N LONGITUDE: 118 37 04 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Near the mouth of Goldstream Creek on east side of the Columbia River,

112 kilometres north of Revelstoke.

COMMODITIES: Asbestos Talc

**MINERALS** 

SIGNIFICANT: Asbestos Talc ASSOCIATED: Magnetite Actinolite

ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratabound CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: M07 Ultramafic-hosted talc-magnesite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Formation

LITHOLOGY: Talc Schist

Serpentinite Graphitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

#### **CAPSULE GEOLOGY**

The area is underlain by probable Lower Paleozoic Lardeau Group metasediments and metavolcanics.

Serpentine layers occur in talc and graphitic schists. Some of the serpentine contains stringers and veinlets of asbestos of actinolitic variety. The rocks strike north-westerly and dip 25 to 40 degrees northeast. Limestone occurs a short distance to the east of the showing.

Exposures in three crosscut tunnels show graphitic and talc schists with serpentine layers. Several "layers" of talcose material are reported. The rocks strike northwest and dip moderately northeast. At the No. 1 adit, 50 metres above the Columbia River, a 2.1 metre width of "fair quality" talc is reported. Impurities include fine-grained magnetite. An analysis of this material yielded the following percentages (O'Grady, 1922).

 Silica
 61.0

 Fe-oxide
 4.9

 Alumina
 0.6

 Magnesia
 32.0

 Lime
 trace

 Loss on ignition
 1.0

Similar material obtained from further within the same tunnel were analysed and found not to be composed of talc.

Some of the serpentine contains stringers and veinlets of asbestos of actinolitic variety.

**BIBLIOGRAPHY** 

EMPR AR \*1922-215 EMPR ASS RPT 15484 EMPR OF 1988-19; 1995-25 GSC MAP 12-1964 GSC OF 637 GSC P 64-32, p. 34

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT 1928, p. A193

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1988/01/12 REVISED BY: MM FIELD CHECK: N

MINFILE NUMBER: 082M 098

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 099

NAME(S): **A & E** 

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP: LATITUDE: 51 19 30 N

LONGITUDE: 118 09 14 W ELEVATION: 2000 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Map symbol GSC Map 12-1964 (GSC Paper 64-32, pp. 31-32).

COMMODITIES: Zinc. Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Arsenopyrite Tetrahedrite

Pyrrhotite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratabound Massive

CLASSIFICATION: Replacement

TYPE: E14 S SHAPE: Irregular Sedimentary exhalative Zn-Pb-Ag

COMMENTS: Width of zone is variable.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Cambrian Lardeau Badshot

LITHOLOGY: Limestone Marble

Slate Sericite Schist

HOSTROCK COMMENTS: Near the contact with black slate of the Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The showings consist of two principle zones of mineralization. The southwestern zone occurs at the contact of northeast-dipping Badshot marble lying structurally on black slate of the Lardeau Group. Sixty to 90 centimetre lenses of pyrite, sphalerite and galena have replaced the limestone near the contact. Smaller veins

intersect the main zone at small angles.

The second zone, 60 metres stratigraphically higher, consists of pyrrhotite, sphalerite, and galena with minor tetrahedrite and arsenopyrite. It occurs in limestone which contains a thin bed of grey sericite schist. The zone has been traced for 46 metres vary-

ing from 76 to 183 centimetres in width.

**BIBLIOGRAPHY** 

EMPR AR 1929-330; 1930-259; 1931-148; \*1933-211-212; 1964-136

EMPR ASS RPT 10664, 12616, \*14405 EMPR BULL 1, pp. 119-120 EMPR EXPL 1982-118; 1986-C121

GSC MAP 12-1964; 237A

GSC OF 637 GSC P \*64-32, pp. 31-32 GSC SUM RPT 1928, Part A, pp. 171,173

EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 099

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5686599

EASTING: 419600

NATIONAL MINERAL INVENTORY: 082M8 Zn3

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 100

NATIONAL MINERAL INVENTORY: 082M16 Pb1

NAME(S): KINBASKET, TIMBASKET

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M16E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

733

LATITUDE: 51 56 00 N LONGITUDE: 118 02 54 W ELEVATION: 850 Metres LOCATION ACCURACY: Within 500M

NORTHING: 5754143 **EASTING: 427925** 

MINING DIVISION: Golden

COMMENTS:

COMMODITIES: Lead 7inc

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite

DEPOSIT

CHARACTER: Stratabound
CLASSIFICATION: Replacement Sedimentary
TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Upper Proterozoic

GROUP
Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

Quartzite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Rocks in the area are probable Upper Proterozoic Horsethief Creek Group consisting of crystalline limestone overlain by quartzite and underlain by metamorphosed black argillite. The rocks are isoclinally folded, striking northwest and dipping about 50 degrees to the southwest.

"Limestone in the northwesterly limb of a fold is acutely dragfolded and appears to terminate in a series of sharp fingers about 300 metres northwest of the Mogul showing. Continuity farther to the northwest had not been established, but it is probable that the limestone is greatly thinned by squeezing. Replacement by sphalerite and galena occurs over much of this distance, in thin bands up to 10 centimetres wide, and in local aggregates of such bands across widths of a few metres. Mineralization is apparently concentrated in the dragfold 'fingers'

(Annual Report 1951).

**BIBLIOGRAPHY** 

EMPR AR 1893-1064,1066; 1894-749; 1895-673; 1896-533,593; 1899-594,673; 1900-980; 1902-133; 1921-164,346; 1948-153; 1949-208; 1950-158; \*1951-192; \*1959-90,99,104

EMPR PF (\*Russel, F.T. (1956): Report on #223 Prospecting 1956) EMR MP CORPFILE (Kootenay Explorations Limited)

GSC MAP 12-1964

GSC OF 637

GSC P 64-32, pp. 27,35 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/13

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 101

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5697649

EASTING: 405865

REPORT: RGEN0100

734

NAME(S): CARBONATE CHIEF, JENNY 1 - 4, JEN 1, JEN 2, JEN 4, JEN 5,

LISE 1, LISE 2, LISE 6

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke NTS MAP: 082M08W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 25 20 N

LONGITUDE: 118 21 14 W ELEVATION: 1950 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trench, Figure 6C (Assessment Report 10768). Location is poorly

defined in older references.

COMMODITIES: Gold 7inc Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Stratabound

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: E14 Se

105 Sedimentary exhalative Zn-Pb-Ag Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Lardeau **Undefined Formation** Lower Cambrian Hamill Undefined Formation

LITHOLOGY: Quartzite

Schist Phyllite

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The area is underlain by quartzite and metavolcanic phyllite rocks of the Lardeau Group. Small crosscutting to irregular quartz veins contain pyrite, pyrrhotite, galena, sphalerite, chalcopyrite, and possibly molybdenite.

A stratabound zone related to a limestone horizon contains pyrrhotite, pyrite, sphalerite, galena, and chalcopyrite. Rock and soil samples from the porperty indicate that gold, silver, lead, zinc, and copper are present in anomalous concentrations.

**BIBLIOGRAPHY** 

EMPR AR 1898-1059; 1921-155 EMPR ASS RPT \*10768, 11517 EMPR EXPL 1982-119 GSC MAP 12-1964; 279A

GSC OF 637

GSC P 64-32, p. 33 GSC SUM RPT 1929, part A, p. 159

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1986/03/06 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 102

NATIONAL MINERAL INVENTORY: 082M1 Zn6

PAGE:

REPORT: RGEN0100

735

 $\label{eq:NAME} \mbox{NAME(S): } \underbrace{\mbox{\bf FRISBY RIDGE}}_{\mbox{\scriptsize JOHN}} \mbox{\rm BIG SLIDE AREA} \,, \, \mbox{NORA} \,,$ 

STATUS: Showing MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082M01W UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5666521 EASTING: 409956

LATITUDE: 51 08 35 N LONGITUDE: 118 17 14 W ELEVATION: 1690 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Northeast end of sulphide layer, (Bulletin 57-8, 40-41, Fig. 2).

COMMODITIES: Zinc I ead Silver

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Pyrrhotite Pyrite

Barite Calcite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Concordant Disseminated Massive

CLASSIFICATION: Sedimentary TYPE: E14 Sedir Syngenetic

Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular MODIFIER: Folded DIMENSION:

STRIKE/DIP: TREND/PLUNGE: 200/45

COMMENTS: Eastern end of Copeland Synform.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Quartzite Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Disseminated galena, sphalerite, pyrrhotite and pyrite occur as discontinuous layers in calc-silicate gneiss of the cover rocks of the Monashee Complex. The layer is less than 30 centimetres

thick and can be traced for 1000 metres on surface.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*1788

EMPR BULL 57, pp. 8,40-41 EMPR MAP 43 GSC MAP 12-1964; 4404G

GSC OF 637 GSC P 64-32 EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1986/02/20 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082M 103

NATIONAL MINERAL INVENTORY:

NAME(S): FRENCH CR

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082M09W BC MAP:

LATITUDE: 51 39 10 N

LONGITUDE: 118 26 04 W ELEVATION: 750 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol, Preliminary Map 25.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Residual Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE
Upper Proterozoic

GROUP
Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5723395

**EASTING: 400767** 

REPORT: RGEN0100

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LITHOLOGY: Schist

Marble **Amphibolite** Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

**CAPSULE GEOLOGY** 

Underlying rocks in the area belong to the Upper Proterozoic Horsethief Creek Group. They consist of calcareous pelitic schists,

amphibolites, marbles and quartzites.

Gold occurs in quartz veins around the heads of McCulloch and Graham Creeks. These veins are thought to have been the source of the placer gold. The placer gold occurs as coarse grains and nuggets, close to the bedrock and as fine colours in the gravels and surface soil. The gold is also angular and slightly porous.

**BIBLIOGRAPHY** 

EMPR AR 1885-499; 1886-203,204; 1887-268,269; 1889-267,279; 1890-356; 1893-1043; 1894-743; 1895-689, 1896-534,536;

1898-1057,1058,1059,1061; 1906-149,150; 1908-91; 1912-K14; 1917-151; \*1922-213,214; 1924-204; 1925-259; 1926-

270; 1928-311; 1929-330; 1930-258; 1931-147; 1934-E34

EMPR BULL 21 p. 23; 28 pp. 52-53, Fig. 3 EMPR MAP 25

GSC ANN RPT 1887-88, v. III, part II, pp. 133R-134R

GSC MAP 12-1964; 237A

GSC OF 637

GSC P 64-32, p. 34 GSC SUM RPT \*1928, part A, pp. 158,192

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/11

CODED BY: GSB REVISED BY: LDJ FIFLD CHECK: N

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 104

NAME(S): **BET**, FLUKE, EVELYN, VENUS

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M03E

BC MAP:

LATITUDE: 51 03 40 N
LONGITUDE: 119 14 54 W
ELEVATION: 1880 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Shaft?

Gold COMMODITIES: Silver 7inc Tin I ead

MINERALS
SIGNIFICANT: Galena Sphalerite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic

GROUP Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

737

LITHOLOGY: Chlorite Schist

Limestone Diorite Dike Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

NATIONAL MINERAL INVENTORY: 082M3 Ag1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5659026 EASTING: 342451

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1927

CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY

Silver I ead

**GRADE** 2400.0000 Grams per tonne Per cent 28.0000 17.0000 Per cent

7inc

COMMENTS: Also traces of gold. REFERENCE: Annual Report 1927, page 201.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian age chloritic schists and minor limestone, that are probably equivalent to the Eagle Bay Forma-

tion.

Foliation in the schist strike 055 to 085 degrees and dips 42 degrees

north.

h. The rocks are intruded by diorite dykes.

Mineralization occurs as replacement of limestone and marble bands. A sample of ore assayed 28 per cent lead, 17 per cent zinc, 2400 grams per tonne silver, and trace gold.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, pp. 307-320 EMPR AR \*1927-201; 1929-217,218; 1930-188; 1931-105,106;

1932-145; 1964-99,100 EMPR ASS RPT \*609, 3819, 3821, 4031, \*5133, 6230, 6857, 12836, 12849, \*13240

EMPR EXPL 1976-58,59; 1978-101

EMPR FIELDWORK 1984, pp. 67-76

EMPR GEM 1972-85

EMR MP CORPFILE (Edoran Oil Corp. Ltd., Commercial Oil & Gas Ltd., Invex Resources Limited, Rapid Canadian Resource

Corporation)

GSC MAP 48-1963

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637 Vollo, N.B. (1984a): Report on the KE claims in Rapid Canadian Resource Corporation Prospectus, 21/08/84

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1986/04/04

MINFILE NUMBER: 082M 104

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 105

NAME(S): SAUL, FLUKE, KE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M03W BC MAP:

LATITUDE: 51 02 30 N LONGITUDE: 119 15 24 W ELEVATION: 1860 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Assessment Report 13240.

COMMODITIES: Lead 7inc Copper Tin Silver

Gold

**MINERALS** SIGNIFICANT: Galena Sphalerite Chalcopyrite Pyrite Stannite

ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Replacement

TYPE: 105 SHAPE: Regular Polymetallic veins Ag-Pb-Zn±Au E14 Sedimentary exhalative Zn-Pb-Ag

STRIKE/DIP: 085/85S TREND/PLUNGE: DIMENSION:

COMMENTS: North vein.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Basalt

Tuff Limestone Chlorite Schist Marble

HOSTROCK COMMENTS: Probably Eagle Bay Fm.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

**CAPSULE GEOLOGY** 

The property is underlain by Cambrian aged basalt, tuffite, and minor limestone that is probably equivalent to the Eagle Bay Formation. The sequence strikes southwesterly, dips to the northwest at low to moderate angles and forms the southeast limb of a syncline.

Mineralization consists of two quartz filled veins, 13 metres apart, in green chloritic schist. The south vein, 35 metres in length and 20 to 30 centimetres wide, strikes 065 and dips near vertical. The north vein, 12 metres in length and 10 centimetres wide, strikes 085 and dips 85 degrees south.

The veins are mineralized with galena and sphalerite with

minor pyrite, chalcopyrite and "tin" minerals.

Mineralization also occurs as replacement of limestone and

marble bands.

**BIBLIOGRAPHY** 

EMPR AR \*1964-99,100

EMPR ASS RPT \*609, 3819, 3821, 4031, \*5133, 6230, 6857, 12836,

12849, \*13240 EMPR EXPL 1978-101

EMPR GEM 1972-85; \*1974-95

EMR MP CORPFILES (Edoran Oil Corp. Ltd., Commercial Oil & Gas Ltd., Invex Resources Limited, Rapid Canadian Resource

Corporation)

GSC EC GEOL 28, p. 82 GSC MAP 48-1963

MINFILE NUMBER: 082M 105

PAGE:

NATIONAL MINERAL INVENTORY: 082M3 Pb1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5656882 EASTING: 341801

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637 American Mineralogist, V. 38, 1953, p. 548 Vollo, N.B. (1984a): \*Report on the KE claims in Rapid Canadian Resource Corporation Prospectus, 21/08/84 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/04 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 105

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 106

NATIONAL MINERAL INVENTORY:

NAME(S): **<u>REG</u>**, EXHALITE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 082M12E BC MAP: LATITUDE: 51 35 55 N

NORTHING: 5719534 **EASTING: 321777** 

LONGITUDE: 119 34 24 W ELEVATION: 1190 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Skarn, Map by Newmont Exploration of Canada Limited, 1985, Property

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Pyrrhotite Sphalerite Magnetite ASSOCIATED: Quartz ALTERATION: Quartz
ALTERATION TYPE: Quartz-Carb. Calcite Mariposite Actinolite Hornblende Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement Skarn

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Phyllite

Argillite Calc-silicate Skarn Andesite Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1985 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip COMMODITY

**GRADE** Per cent Copper 0.0190

COMMENTS: Two metre sample width. REFERENCE: Assessment Report 13557.

CAPSULE GEOLOGY

The area is underlain by a highly contorted and metamorphosed assemblage of felsic to intermediate volcanics, limestone, shale, and minor conglomerate of the Paleozoic Eagle Bay Formation. Rock

units include siliceous metasediments overlain by andesite, chlorite schist, argillite, phyllite and carbonate.

Disseminated chalcopyrite, pyrite, pyrrhotite, sphalerite, manganese and magnetite occur in a calc-silicate horizon within argillite and phyllite. A 2.0 metre chip sample assayed 0.019 per cent copper (Assessment Report 13557). About 1350 metres to the west-southwest, an actinolite hornblende skarn contains

chalcopyrite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6933, \*13557 EMPR EXPL 1978-113; 1985-108-109; 1985-C108

EMPR OF 1986-5

EMPR PF (Map by Newmont Exploration of Canada Limited, 1985) GSC MAP 48-1963

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 106

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 107

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5668563 EASTING: 299364

TREND/PLUNGE:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

REPORT: RGEN0100

743

NAME(S): STAKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04W BC MAP:

LATITUDE: 51 08 00 N

LONGITUDE: 119 52 04 W ELEVATION: 730 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, Plate 2 - Assessment Report 6679.

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: 105 DIMENSION: Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Strata.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Phyllite

Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY

I ead

7inc

YEAR: 1977

STRIKE/DIP: 090/40N

Per cent 0.7200 0.4300 Per cent

REFERENCE: Assessment Report 6679.

**CAPSULE GEOLOGY** 

The area is underlain by Devonian and/or Mississippian Eagle Bay Formation rocks consisting of intermediate to felsic metavolcanics with a general strike of 090 degrees and dip of 40

**GRADE** 

degrees north.

A quartz vein within the chlorite schists is mineralized with galena and sphalerite and minor pyrite and chalcopyrite. A grab sample contained 0.72 per cent lead and 0.43 per cent zinc.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6679, 13041 EMPR EXPL 1978-E107; 1984-123

EMPR MAP 56

GSC MAP 48-1963 GSC OF 637

WWW http://www.orphanboy.com/gstream.html

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: LDJ DATE REVISED: 1986/04/30

MINFILE NUMBER: 082M 107

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 108

NATIONAL MINERAL INVENTORY:

NAME(S): **FOGGY 3** 

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 31 50 N LONGITUDE: 119 57 54 W ELEVATION: 1920 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Gossan area, Drawing 193-4 (Assessment Report 7813).

COMMODITIES: Silver I ead 7inc

Copper

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

Gold

NORTHING: 5712995 EASTING: 294350

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

ALTERATION: Limonite

Sphalerite

Pyrite

Chalcopyrite

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

Chlorite Sericite Sericitic

Carbonate

**FORMATION** 

Eagle Bay

RELATIONSHIP:

**GRADE** 

0.0300

Oxidation

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal TYPE: G06 Noran

Noranda/Kuroko massive sulphide Cu-Pb-Zn

105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group

LITHOLOGY: Quartz Sericite Schist

Phyllite Chert Gossan

Chlorite Sericite Schist Sericite Quartzite Crystal Tuff Porphyritic Flow Basalt Gabbro

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

Per cent

YEAR: 1979

**COMMODITY** 

CATEGORY: Assay/an SAMPLE TYPE: Drill Core Assay/analysis

27.5000 Grams per tonne 0.1400 Grams per tonne

0.2500 Per cent 0.1100 Per cent

Copper Lead

Silver

Gold

Zinc

COMMENTS: 10.5 metre width. REFERENCE: Assessment Report 8530.

**CAPSULE GEOLOGY** 

Foghorn Mountain is underlain by metavolcanics derived largely from intermediate crystal-lithic tuffs and porphyritic flows of the Devonian to Mississippian Eagle Bay Formation. The rocks are pale to medium green chlorite-sericite schists, quartz-sericite schist, chert phyllite and sericitic quartzite. These comprise a relatively flat lying plate, occurring as a gentle north plunging synform. To the west, separated by an east-dipping thrust fault, are basalt, gabbro chert and minor sediments of the Fennell Formation. The Middle Cretaceous Baldy Batholith lies to the south.

A large hydrothermally altered zone (gossan) of heavily limonitic sericite schist contains disseminated and massive pyrite

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

and minor galena, sphalerite and chalcopyrite. A sample of selected pieces of white quartz with minor pyrite assayed 0.10 per cent copper and 18 grams per tonne silver (Assessment Report 7813). A drill hole intersected 5 metres assaying .02 per cent lead and 0.02 per cent zinc (Assessment Report 7757). Another hole, 200 metres to the south, intersected 10.5 metres of  $27.5~\rm grams$  per tonne silver, 0.11 per cent lead, 0.03 per cent zinc, 0.25 per cent copper and 0.14 grams per tonne gold (Assessment Report 8530).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 7404, \*7757, 7813, \*8530, 9716, 11381 EMPR EXPL 1979-114-115; 1983-168 EMPR MAP 53; 56 EMPR OF 1986-5; 1999-2 GSC MAP 48-1963 GSC OF 637 EMPR PF (Foghorn Mountain Property, April 29, 1988, Prospectus, Gold Spring Resources Ltd.)

FIELD CHECK: N DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1987/01/10 REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 109

NATIONAL MINERAL INVENTORY:

NAME(S): VM

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

746

LATITUDE: 51 30 50 N

NORTHING: 5710512 EASTING: 310461

LONGITUDE: 119 43 54 W ELEVATION: 1430 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralization, Plate 2 (Assessment Report 6878).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Pyrite** Pyrrhotite

Feldspar ALTERATION: Malachite Limonite

Manganite Chlorite Sericite

Chloritic

Sericitic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

STRATIGRAPHIC AGE

Devonian Undefined Group **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

GRADE: Greenschist

LITHOLOGY: Quartz Sericite Phyllite

Chlorite Phyllite Graphitic Phyllite Chert

Quartz Sericite Schist Sericite Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanics and metasediments of the Devonian to Mississippian Eagle Bay Formation. Copper mineralization  ${\sf Copper}$ occurs in quartz-sericite phyllite derived largely from felsic to intermediate volcanics. Other rock units include chloritic phyllite, dark grey graphitic phyllite, quartz-sericite schist, sericitic quartzite and chert. The strata strikes northeast and dips gently to the north. A north northeast trending fault separates quartzfeldspar augen gneiss to the east.

RELATIONSHIP:

Chalcopyrite, pyrite and minor pyrrhotite occurs as disseminations along foliation planes and fractures. Low grade mineralization occurs over about 500 metres, with selected trench samples assaying up to 0.43 per cent copper.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2988, 3195, \*3525, \*6878

EMPR EXPL 1978-112-113

EMPR FIELDWORK 1985, p. 93 EMPR GEM 1970-297; 1971-442; 1972-90

EMPR OF 1986-5

EMPR PF (Maps by N.B. Vollo, 1971) GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/21 REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 110

NATIONAL MINERAL INVENTORY: 082M5 Cu1

NAME(S): **B & B**, NLSS, LESLY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

747

LATITUDE: 51 19 50 N NORTHING: 5690377 EASTING: 303123

MINING DIVISION: Kamloops

LONGITUDE: 119 49 34 W ELEVATION: 960 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill Hole, map 6 (Assessment Report 7254).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Chlorite Pyrite Pyrrhotite Quártz Sericite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive Disseminated

CHARACTER: Stratiform CLASSIFICATION: Volcanogenic TYPE: G06 Norano SHAPE: Irregular

Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Undefined Group Eagle Bay

LITHOLOGY: Graphitic Argillite Intermediate Meta Volcanic

Chlorite Schist

Phyllite

Quartz Sericite Schist

Limestone Dioritic Dike Skarn Granodiorite Dike

HOSTROCK COMMENTS: Minor amounts skarnified limestone.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1979 Assay/analysis

SAMPLE TYPE: Drill Core

COMMODITY Copper Per cent

COMMENTS: 1.5 metre sample width.

REFERENCE: Assessment Report 7254.

#### CAPSULE GEOLOGY

The property is underlain by a sequence of interlayered and interlaminated chlorite schist, phyllite, quartz-sericite schist and minor amounts of skarnified limestone. These rocks are tentatively included within the Paleozoic Eagle Bay Formation (Map 56). The sequence is likely derived from mafic to intermediate volcanic and volcaniclastic rocks.

The metavolcanics and metasediments are intruded by diorite to granodiorite dykes ranging from a few centimetres to tens of metres in thickness.

Pyrite, chalcopyrite and pyrrhotite mineralization is disseminated and semi-massive within felsic to intermediate metavolcanics and graphitic argillite. Mineralization occurs along the south shore of North Barriere Lake and was intersected in a drill hole 750 metres south east of the lake. The best intersection in the drill hole was 0.16 per cent copper over 1.5 metres at 82 metres depth (Assessment Report 7254).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*2679, 3431, 3884, 4685, \*7254 EMPR EXPL 1978-E108 EMPR FIELDWORK 1979, pp. 28-36 EMPR GEM 1970-314; 1971-438,439; 1972-87,88 EMPR MAP \*56 EMPR OF 1999-2; 2000-7 GSC MAP 48-1963 GSC OF 637 Dickie. Gul: Preto War and Schismin Dickie, G.J.; Preto, V.A. and Schiarizza, P. (in preparation):
Mineral Deposits of the Adams Plateau - Clearwater area.
Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau - Clearwater Region; GSA Cordilleran Section Meeting, May 1985, pp. 16-1 to 16-11

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/05/06 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 110

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 111

NATIONAL MINERAL INVENTORY:

NAME(S): VIC 1

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

749

LATITUDE: 51 03 00 N LONGITUDE: 119 42 54 W ELEVATION: 425 Metres

NORTHING: 5658893 EASTING: 309709

LOCATION ACCURACY: Within 500M

COMMENTS: Trench, Map 3 (Assessment Report 2650); also grab sample location

plate 2 (Assessment Report 6680).

COMMODITIES: Lead Silver Copper 7inc

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite Pyrite

ASSOCIATED: Chlorite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Disseminated

CLASSIFICATION: Volcanogenic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

DIMENSION: STRIKE/DIP: 090/44N TREND/PLUNGE: COMMENTS: Foliation.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Chlorite Schist

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1977 CATEGORY: Assay/analysis SAMPLE TYPE: Rock

COMMODITY **GRADE** 

2.7500 Per cent ead

COMMENTS: 10 centimetre width; also minor copper, silver, and zinc values.

REFERENCE: Assessment Report 6680.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian to Mississippian rocks of the Eagle Bay Formation. The rocks consist of phyllites and schists (Unit EBA, Map 56), derived from felsic to intermediate volcanic and volcaniclastic rocks. The strata strikes 070 to 110

degrees and dips 25 to 45 degrees north.

The Vic 1 showing is located 400 metres north of the Beca showing (082M 055). A 10 centimetre pyrite-galena bed, assaying 2.75 per cent lead with minor copper, zinc and silver, occurs within chloritic schist.

**BIBLIOGRAPHY** 

EMPR ASS RPT 1114, \*2650, 4504, \*6680, 11353, 12959, 13138 EMPR EXPL 1984-115; 1985-C99

EMPR GEM 1970-317 EMPR MAP \*56

EMPR OF 1999-2 GSC MAP 48-1963; 5320G

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 112

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

750

NAME(S): VAL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 22 20 N
LONGITUDE: 119 52 24 W
ELEVATION: 950 Metres
LOCATION ACCURACY: Within 500M NORTHING: 5695138 EASTING: 300015

COMMENTS: Occurrence, Figure 2 (Assessment Report 3298).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown Pyrite Pyrrhotite

DEPOSIT

CHARACTER: Disseminated
CLASSIFICATION: Unknown
TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Baldy Batholith STRATIGRAPHIC AGE GROUP Cretaceous **FORMATION** 

LITHOLOGY: Quartz Monzonite Granitic Dike

Biotite Granite Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The area is underlain by Mid-Cretaceous Baldy Batholith rocks consisting of biotite granite, pegmatite, monzonitic granite and

aplitic granite dykes.

Molybdenite occurs as disseminations and blebs in reddish

brown monzonitic granite.

About 1800 metres to the west are contacts between felsic dykes and intrusives which are mineralized with pyrite, pyrrho-

tite and chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR 1969-169

EMPR ASS RPT 1669, \*3298

EMPR GEM 1971-439,440 EMPR OF 2000-7 GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/06 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 113

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

751

NAME(S): VIC 21, BECA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

NORTHING: 5657636 EASTING: 310248 LATITUDE: 51 02 20 N

LONGITUDE: 119 42 24 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop, Map 3 (Assessment Report 3321).

COMMODITIES: Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite

**DEPOSIT** 

CHARACTER: Concordant Disseminated
CLASSIFICATION: Volcanogenic
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

<u>GRO</u>UP STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Schist

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1971 SAMPLE TYPE: Rock

COMMODITY **GRADE** Silver 4.0000

Grams per tonne Copper 0.0100 Per cent Per cent 0.0400 Lead Per cent Zinc 0.1500

REFERENCE: Assessment Report 3321.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian to Mississippian rocks of the Eagle Bay Formation. The rocks consist of phyllites and schists derived from felsic to intermediate volcanic and volcaniclastic rocks. The strata strikes 070 to 110 degrees and dips 25 to 45 degrees north.

The Vic 21 showing occurs as disseminated galena and sphalerite conformable along bedding within the metavolcanics. A nearby geochemical sample assayed 4 grams per tonne silver, 0.15 per cent zinc, 0.04 per cent lead and 0.01 per cent copper.

**BIBLIOGRAPHY** 

EMPR ASS RPT 1114, 2650, \*3321, 4504, 6680, 7040 EMPR EXPL 1978-E102, E103; 1979-109, 110

EMPR GEM 1971-437 EMPR MAP \*56 EMPR OF 1999-2

GSC MAP 48-1963; 5320G GSC OF \*637

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/23 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 114

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

NORTHING: 5706884

EASTING: 316602

REPORT: RGEN0100

752

NAME(S): HILLTOP, LUCKY STRIKE

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082M05E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 29 00 N LONGITUDE: 119 38 29 W ELEVATION: 1460 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing #1, Map 4 (Assessment Report 3430).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Pyrrhotite **Bornite** Covellite

Pyrolusite ASSOCIATED: Quartz

ALTERATION: Chlorite ALTERATION TYPE: Silicific'n K-Feldspar **Bornite** Covellite

Pyrite Potassic Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Lower Cambrian Eagle Bay

LITHOLOGY: Chlorite Schist

Greenstone Limestone

Quartz Feldspar Chlorite Gneiss Sericite Chlorite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YFAR: 1971

COMMODITY **GRADE** 0.7200 Per cent

Copper COMMENTS: 2.4 metre chip sample width.

REFERENCE: Assessment Report 3430.

CAPSULE GEOLOGY

The area is underlain largely by Lower Cambrian metamorphic rocks of the Eagle Bay Formation in contact with the Cretaceous Baldy Batholith. Four distinct units include quartz-feldspar chlorite gneiss, sericite chlorite phyllite, limestone and green chlorite schist to massive greenstone. All units normally strike northeast and dip northwest at moderate angles. Major north trending and minor northwest trending faults displace the units.

Copper mineralization, with accompanying silicification, pyritization and potassium feldspar alteration, occurs in the stratigraphically lower zone of the chlorite schist to greenstone unit, just east of its faulted contact with the intrusive. Chalcopyrite, pyrite and lesser pyrolusite, pyrrhotite, bornite and covellite occur as disseminations and fracture fills in largely brecciated and sheared host rocks. Seven showings occur within a 650 by 250 metre area. A 2.4 metre chip sample of showing #1 assayed 0.72 per cent copper (Assessment Report 3430).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3430, 5929, \* EMPR EXPL 1976-63; 1978-109 EMPR FIELDWORK 1985, p. 90

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

PAGE:

REPORT: RGEN0100

753

**BIBLIOGRAPHY** 

EMPR GEM 1971-437-438; 1972-90 EMPR OF 1986-5; 2000-7 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/21 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 115

NAME(S): HILLTOP 9

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05E BC MAP:

LATITUDE: 51 29 07 N LONGITUDE: 119 37 04 W ELEVATION: 1390 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing #8, Map 4 (Assessment Report 3430).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Epidote

ALTERATION: Epidote

**Pyrite** Garnet Garnet

Pyrrhotite Diópside Diopside Skarn

Calcite

Chlorite

ALTERATION TYPE: Epidote
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement TYPE: K01 Cu skarn

Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE

**Undefined Group** Lower Cambrian

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5707042 EASTING: 318248

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

754

LITHOLOGY: Limestone

Chlorite Schist Skarn

Greenstone

Quartz Feldspar Chlorite Gneiss Sericite Chlorite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

CATEGORY:

COMMODITY

Copper REFERENCE: Assessment Report 3430. RELATIONSHIP:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

Assay/analysis

SAMPLE TYPE: Rock

0.1400

Per cent

REPORT ON: N

YEAR: 1971

CAPSULE GEOLOGY

Metamorphic rocks consisting of quartz-feldspar chlorite gneiss, sericite chlorite phyllite, limestone and chlorite

gneiss, sericite chlorite phyllite, limestone and chlorite schist to greenstone of the Lower Cambrian part of the Eagle Bay Formation lie adjacent to the Cretaceous Baldy Batholith.

A pod of skarn, 18 by 9 metres, occurs within massive crystalline limestone. It consists of epidote, diopside, calcite, chlorite and garnet with minor pyrrhotite, pyrite and chalcopyrite. A sample assayed 0.14 per cent copper (Assessment Report 3430).

About 500 metres to the east, pods and lenses of pyrrhotite with minor pyrite and traces of chalcopyrite occur in highly fractured and sheared chlorite schist

fractured and sheared chlorite schist.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3430

EMPR GEM 1971-437-438; 1972-90

EMPR OF 1986-5; 2000-7 GSC MAP 48-1963

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/21 CODED BY: GSB

REVISED BY: LDJ

MINFILE NUMBER: 082M 115

FIELD CHECK: N

FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 116

NATIONAL MINERAL INVENTORY:

NAME(S): RIO, CAN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M06E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

755

LATITUDE: 51 19 30 N LONGITUDE: 119 11 04 W ELEVATION: 1040 Metres

NORTHING: 5688233 EASTING: 347800

LOCATION ACCURACY: Within 500M

COMMENTS: Upper limit of mineralized float, Fig. 2 and mineralized granitic dyke. (Assessment Report 9169).

COMMODITIES: Tungsten

Copper

MINERALS
SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

Scheelite

Pyrrhotite

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement TYPE: K05 W skarn

Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Schist

Limestone Quartz Monzonite Skarn Granitic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The property is underlain by Shuswap Metamorphic Complex rocks consisting of quartz-biotite schist with local bands of

marmorized limestone.

A probably Cretaceous porphyritic biotite quartz monzonite intrudes the metasediments developing a garnet-diopside and

scheelite-pyrrhotite-chalcopyrite skarn.

Mineralization occurs in numerous boulders up to 1000 metres along Canyon Creek. Similar mineralization occurs with a rusty

granitic dyke at 1040 metres elevation.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9169 EMPR EXPL 1980-141 EMPR GEM 1971-441 EMPR OF 1991-17 GSC MAP 48-1968 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/01 CODED BY: GSB REVISED BY: LDJ

MINFILE NUMBER: 082M 116

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 117

NATIONAL MINERAL INVENTORY:

NAME(S): **FENNELL ZONE**, BEX

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

756

LATITUDE: 51 17 10 N

NORTHING: 5685205 EASTING: 309033

LONGITUDE: 119 44 19 W ELEVATION: 1020 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trench, Figure 3 (Assessment Report 2232).

COMMODITIES: Copper Gold Molybdenum Nickel

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Sphalerite Marcasite Molybdenite

ASSOCIATED: Hematite Hornblende Tourmaline Garnet Magnetite

ALTERATION: Hematite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Disseminated Massive

CLASSIFICATION: Unknown SHAPE: Tabular DIMENSION: 0200 x 0035 x 0020 Metres STRIKE/DIP: 120/20W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Upper Devonian

**Undefined Group** Spapilem-Deadfall Creeks Unnamed/Unknown Informal

ISOTOPIC AGE: 126 +/- 4 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite

LITHOLOGY: Quartzite

Phyllite Calc-silicate Schist

Para Gneiss Hornfels

Staurolite Garnet Mica Schist

Amphibolite Grit

HOSTROCK COMMENTS: Dating from Okulitch, 1979.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by probable Lower Cambrian to Hadrynian age Spapilem Creek-Deadfall Creek Succession (unit SDQ Map 56). The rocks consist of quartzite, micaceous quartzite, grit and phyllite, with lesser staurolite-garnet-mica schist, calc-silicate schist and amphibolite. These rocks are cut by Late Devonian orthogneiss and sillimanite bearing paragneiss (unit Dgnp). To the north east the rocks are cut by post-tectonic granitic rocks of the Mid-Cretaceous Baldy Batholith.

The mineralized zone lies within paragneiss rocks consisting of highly argillaceous hornfels with lesser interbands and lenses of arenaceous material yielding impure quartzites and feldspatic gneisses. Sulphide mineralization occurs in the upper 20 metres of a 30 metre thick bed of hornfels dipping west at 17 to 22 degrees. The hornfels is bounded by 7 to 8 metre quartzite beds.

Mineralization consists of pyrrhotite, chalcopyrite and pyrite. Five grab samples across the surface exposed zone ranged from 0.04 to 0.56 per cent copper (Assessment Report 6720).

Pyrrhotite, hematite, pyrite, marcasite, chalcopyrite, and sphalerite were recognized in the main showing area. Drill holes returned assays of up to 0.82 per cent copper over 1.62 metres and 0.87 per cent nickel over 15 centimetres. Two quartz veins, 13 centimetres and 20 centimetres wide, assayed 0.17 and 0.34 grams

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

per tonne gold respectively. Up to 0.005 per cent molybdenum was associated with copper values.

### **BIBLIOGRAPHY**

EMPR MAP 56 EMPR MAP 30

EMPR OF 2000-7

GSC MAP 48-1963

GSC OF 637

Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau - Clearwater Region; GSA Cordilleran Section Meeting, May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/02 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 117

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 118

NATIONAL MINERAL INVENTORY:

NAME(S): STEEP, PAT 2, ADAM

STATUS: Prospect REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

758

NTS MAP: 082M04E 082M04W BC MAP: LATITUDE: 51 00 20 N

NORTHING: 5654031 EASTING: 307384

LONGITUDE: 119 44 44 W ELEVATION: 640 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Pit #3, Map 1 (Assessment Report 3510).

COMMODITIES: Zinc. Silver Gold I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Sphalerite Galena Chalcopyrite Silver

Gold Mägnetite Bismuth Telluride ASSOCIATED: Amphibole Plagioclase Epidote Garnet

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Skarn

G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: J01 Polymetallic manto Ag-Pb-Zn G0 SHAPE: Tabular COMMENTS: Skarn zone is several hundred metres wide and at least 10 kilometres

along strike.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Sicamous

LITHOLOGY: Argillaceous Limestone

Calcareous Phyllite Quartz Porphyry Schist

Calc-silicate Garnet Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau

TERRANE: Kootenay

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1988 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

**GRADE** COMMODITY Per cent Zinc 1.5000 Copper 0.3800 Per cent Gold 5.8000 Grams per tonne Lead 0.6900 Per cent

Silver COMMENTS: Maximum assay values.

REFERENCE: Miller et al, 1988.

CAPSULE GEOLOGY

The Steep property is located on the west side of Adams Lake, approximately 55 kilometres northeast of Kamloops. The regional geology is described by Okulitch (1979) (Geological Survey of Canada Open File 637), and by Schiarizza and Preto (Preliminary Map 65, Paper 1987-2). The mineralization is hosted by northeast-dipping argillaceous limestones and black calcareous phyllites of the Sicamous Formation, close to their contact with the structurally overlying Eagle Bay assemblage. The Sicamous Formation was assigned a Late Triassic age by Okulitch (1979), but is now though to be of Paleozoic age (Okulitch, 1985). It is inferred to be a facies equivalent of part of the Early Cambrian to Mississippian Eagle Bay assemblage (Schiarizza and Preto, 1984, 1987). Eagle Bay rocks, which sit structurally above the Sicamous Formation in the vicinity of the Steep property, comprise Devonian felsic metavolcanics and associated metasediments together with Devonian orthogneiss presumed

22.0000

Grams per tonne

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

to be comagnatic with the metavolcanics. Quartz porphyry schists which occur locally within the skarn-altered Sicamous Formation are thought by Schiarizza and Preto (1987) to be feeder sills related to the overlying metavolcanic rocks.

the overlying metavolcanic rocks.

Recent exploration work on the property, including some diamond drilling, has been conducted by National Resources Explorations Limited, and a summary of the skarn minerlization and geochemistry has been presented by Miller et al (1988). A concordant zone of skarn alteration that reaches several hundred metres in width is traceable for a least 10 kilometres along strike. It includes calc-silicate and garnet-rich skarn; the former is up to 80 metres thick, and mainly comprises fine-grained amphibole, plagioclase, and epidote with lesser amounts of biotite, sphene, chlorite, apatite, plagioclase and potassium feldspar. Minor amounts of pyroxene have been identified in thin section although it is mainly altered to chlorite and epidote (D. Miller, personal communication, 1989).

Pyrrhotite average 5 per cent and is the dominant sulphide.

Pyrrhotite average 5 per cent and is the dominant sulphide. Layers of massive phrrhotite and minor magnetite occur together locally. Other sulphides include pyrite, chalcopyrite and rare sphalerite and galena which may form fine intergrowths with the pyrrhotite. Miller et al (1988) reports that the gold forms minute grains, 5 to 15 microns in diameter, which generally occurs with the pyrrhotite. The gold is also associated with minute grains of native bismuth and bismuth tellurides. Mineralization tends to be found close to the outer margin of the skarn zone.

close to the outer margin of the skarn zone.

Soil sampling suggests that the areas of higher gold values coincide with anomalous values of arsenic and copper, and to a lesser extent with lead and zinc. The best drillhole intersection recorded 3 metres of 5.8 grams per tonne gold. However maximum assay values for other elements were 22 grams per tonne silver, 2000 parts per million arsenic, 272 parts per million bismuth, 3830 parts per million copper, 6910 parts per million lead, 1.5 per cent zinc and 173 parts per million antimony (Miller et al, 1988). A visual examination of the assay results suggests that gold has a relatively poor correlation with silver, arsenic, antimony and lead but a strong positive correlation with bismuth. Copper, lead, zinc, arsenic and antimony all exhibit a good positive correlation with each other.

The age and origin of the Steep property minerlization is

Ine age and origin of the Steep property minerization is unknown, and it is uncertain whether it represents an intrusion-related, epigenitic skarn, or a syngenetic, exhalitive "stratiform skarn" deposit.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*3510, 6672, 12640, 16651, \*19514
EMPR EXPL 1984-115
EMPR GEM 1972-86
EMPR MAP 56
EMPR P 1987-2; \*1989-3, p. 95; 1992-1
EMPR PF (\*Miller, D.C., et al (1988): Report on the Geology and Mineralogy of the Steep Gold-skarn Property, Kamloops Mining Division, British Columbia, unpublished report for National Resource Explorations Limited, May 10, 1988, 13 pages)
GSC MAP 48-1963
GSC OF 637
CJES Vol. 22, pp. 1409-1424 (1985 (Okwitch, A.V.): Paleozoic Plutonian in Southeastern B.C.)

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/11/19 REVISED BY: ICLW FIELD CHECK: Y

MINFILE NUMBER: 082M 118

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 119

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

760

NAME(S): PAT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5653391 EASTING: 307945 LATITUDE: 51 00 00 N LONGITUDE: 119 44 14 W ELEVATION: 425 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 1 (Assessment Report 3510).

COMMODITIES: Asbestos

**MINERALS** 

Asbestos

SIGNIFICANT: Serpentine
ALTERATION: Serpentine
ALTERATION TYPE: Serpentin'zn
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Industrial Min. TYPE: M06 Ultran

Ultramafic-hosted asbestos

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Greenstone

Phyllite Gneiss Chlorite Schist

HOSTROCK COMMENTS: Okulitch, 1979: Permian Kaslo Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Thompson Plateau

**CAPSULE GEOLOGY** 

The area is underlain by Devonian or older Eagle Bay Formation rocks consisting of chlorite schist, phyllites, siliceous gneiss and greenstone.

Serpentine occurs within greenstone as sparse short, 0.3 to 0.6

centimetre, asbestos fibres.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3510

EMPR FIELDWORK 1980, pp. 15-23

EMPR GEM 1972-86 EMPR MAP 56 EMPR OF 1995-25 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/25 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 120

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

761

NAME(S): PINE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 02 00 N
LONGITUDE: 119 47 24 W
ELEVATION: 1400 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 5657236 EASTING: 304383

COMMENTS: No definite location available.

COMMODITIES: Copper Zinc I ead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Galena Sphalerite Pyrrhotite

Sericite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Replacement Skarn

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn J01 Polymetallic manto Ag-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

FORMATION Eagle Bay STRATIGRAPHIC AGE Devonian GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartz Sericite Schist

Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The area is underlain by Devonian age rocks of the Eagle Bay Formation consisting of sericitic-quartzo-feldspathic schist and gneiss derived from felsic intrusive rocks.

Chalcopyrite, galena and sphalerite occur in fracture within the metavolcanics. Pyrrhotite and minor chalcopyrite occurs in

**BIBLIOGRAPHY** 

EMPR ASS RPT 6890, 15908 EMPR EXPL 1977-E92

EMPR GEM \*1972-87 EMPR MAP 56 EMPR OF 2000-31 GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/11/09 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 121

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5713712 EASTING: 324657

REPORT: RGEN0100

762

NAME(S): REG 7

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12E BC MAP:

LATITUDE: 51 32 50 N

LONGITUDE: 119 31 44 W ELEVATION: 1120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample site, Map 2 (Assessment Report 13557).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown **Pyrite** 

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Lower Cambrian Eagle Bay

LITHOLOGY: Quartzite

Chlorite Sericite Quartz Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent 0.0900 Copper

COMMENTS: 1.5 metre sample width.

REFERENCE: Assessment Report 13557.

**CAPSULE GEOLOGY** 

The area is underlain by Lower Cambrian part of the Eagle Bay Formation consisting of quartzite, grit and chlorite-sericite-quartz

schist. Disseminated chalcopyrite and pyrite occurs in sericitic quartzite. A 1.5 metre sample assayed 0.09 per cent copper (Assess-

ment Report 13557).

**BIBLIOGRAPHY** 

EMPR ASS RPT 13557 EMPR EXPL 1985-108-109

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/23 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 122

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5717701 EASTING: 325566

REPORT: RGEN0100

763

NAME(S): ROB

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12E BC MAP:

LATITUDE: 51 35 00 N
LONGITUDE: 119 31 04 W
ELEVATION: 1280 Metres
LOCATION ACCURACY: Within 5 KM COMMENTS: Old claim centre.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Pyrrhotite Chalcopyrite

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Undefined Group Eagle Bay

LITHOLOGY: Andesite

Chlorite Schist Quartz Sericite Schist

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Disseminated pyrite, pyrrhotite and chalcopyrite occur in andesite, chlorite schist and quartz-sericite schist of the Lower Cambrian part of the Eagle Bay Formation.

**BIBLIOGRAPHY** 

EMPR GEM 1972-91 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N

REVISED BY: LDJ DATE REVISED: 1987/01/23 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 123

NATIONAL MINERAL INVENTORY: 082M13 W1

PAGE:

UTM ZONE: 11 (NAD 83)

Unnamed/Unknown Informal

REPORT: RGEN0100

764

NAME(S): DIMAC, SILENCE LAKE, GOTCHA,

BOULDER

STATUS: Past Producer Open Pit MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M13E

BC MAP: LATITUDE: 51 50 00 N LONGITUDE: 119 41 34 W NORTHING: 5745930 EASTING: 314470

ELEVATION: 1140 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Workings approximately 32 kilometres northeast of Clearwater

(Assessment Report 7607).

COMMODITIES: Tungsten Wollastonite

**MINERALS** 

SIGNIFICANT: Scheelite Wollastonite

Idocrase

ASSOCIATED: Quartz Calcite Pyrrhotite Wollastonite Diopside Garnet Actinolite Idocrase ALTERATION: Quartz Calcite Garnet Diopside Actinolite

ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Disseminated Massive Concordant

Wollastonite

CLASSIFICATION: Skarn Industrial Min.

TYPE: K05 SHAPE: Tabular W skarn K09 Wollastonite skarn

MODIFIER: Folded Faulted

x 50 DIMENSION: 120 x 60 STRIKE/DIP: 050/55N TREND/PLUNGE: Metres

COMMENTS: Approximate dimensions of the skarn zone. Attitude of the northern

skarn zone.

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

Proterozoic-Paleoz. Cretaceous-Tertiary

ISOTOPIC AGE: 65 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Muscovite

LITHOLOGY: Calc-silicate

Calcareous Biotite Schist

Biotite Schist **Biotite Quartzite** Skarn Biotite Quartz Monzonite Quartz Monzonite

Granodiorite Quartz Diorite Pegmatite

HOSTROCK COMMENTS: Age date by Ryan, B.C. (1979). The stock is probably related to the

Cretaceous Raft batholith which occurs to the north.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville PHYSIOGRAPHIC AREA: Shuswap Highland

Pre-mineralization

RELATIONSHIP: Syn-mineralization METAMORPHIC TYPE: Contact Regional GRADE: Amphibolite

COMMENTS: Eastern border of the Interior Plateau.

INVENTORY

REPORT ON: Y ORE ZONE: TAILINGS POND

> CATEGORY: Indicated YEAR: 1984

QUANTITY: 18142 Tonnes

COMMODITY **GRADE** Tungsten Per cent

COMMENTS: In tailings pond. Grade given is 0.3 per cent Wo3. Conversion used is 1.2611 to obtain W.

REFERENCE: Filing Statement 21/84, Troudor Resources Inc.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE: OPEN PIT MATERIAL REPORT ON: Y

> YEAR: 1984 CATEGORY: Indicated

QUANTITY: 9071 Tonnes **GRADE** 

COMMODITY Tungsten 0.9500 Per cent

COMMENTS: Open pit material. Grade given is 1.2 per cent Wo3. Conversion used

is 1.2611 to obtain W.
REFERENCE: Filing Statement 21/84, Troudor Resources Inc.

ORE ZONE: STOCKPILE REPORT ON: Y

> CATEGORY: YEAR: 1984 Indicated QUANTITY:

1360 Tonnes COMMODITY **GRADE** 

Per cent Tunasten 1.1800

COMMENTS: Stockpile. Grade given is 1.5 per cent Wo3. Conversion used is

1.2611 to obtain W. REFERENCE: Filing Statement 21/84, Troudor Resources Inc.

ORE ZONE: OPEN PIT REPORT ON: Y

> CATEGORY: Indicated YEAR: 1984

QUANTITY: 4535 Tonnes COMMODITY **GRADE** 

Per cent Tungsten 0.9500

COMMENTS: In open pit. Grade given is 1.2 per cent Wo3. Conversion used is

1.2611 to obtain W.

REFERENCE: Filing Statement 21/84, Troudor Resources Inc.

### **CAPSULE GEOLOGY**

The Dimac mine is located 4 kilometres north of Silence Lake, the open pit is on the west side of Maxwell Creek. The deposit was mined for tungsten during 1981 and 1982.

The area is underlain by northeast trending roof pendants in a

granitic stock of probable Late Cretaceous or Early Tertiary age.
The stock is probably related to the Cretaceous Raft batholith, 14
kilometres to the south. The stock intrudes northwest dipping
metasediments of the Precambrian to Paleozoic(?) Shuswap Metamorphic Complex (Monashee gneiss) that have been isoclinally folded and regionally metamorphosed to amphibolite facies. Fracturing, shearing and alteration are evident in drill holes.

The property covers the area of contact between metasediments and a post-metamorphic stock with associated skarns. The metasediments consist of calcareous and noncalcareous biotite schist, biotite quartzite and skarn. The stock consists of biotite-quartz monzonite, quartz monzonite, granodiorite, quartz diorite and pegmatite. Contacts between the various rock types, and layering

within them, trends northeast and dips northwest.

Calc-silicate adjacent to intrusive rocks has been altered to three major types of skarn: 1) the scheelite-bearing quartz-garnetdiopside-idocrase skarns 2) the scheelite and pyrrhotite-bearing quartz-garnet-actinolite-idocrase-diopside skarns and 3) the barren wollastonite-garnet-diopside-calcite skarns. Five northwest trending bands of skarn, of which three contain coarse-grained scheelite mineralization, occur over an area 50 by 120 metres. The northern band (band 1) strikes 050 degrees and dips 55 degrees northwest. In the vicinity of the open pit, two northeast trending metasedimentary screens, the `upper band' to the west and the `lower band' to the east, are engulfed in intrusive rocks. Skarn type 1 hosts economic mineralization in the `upper band', type 2 in the `lower band' and type 3 primarily in the `upper band' but also in the `lower band'.

The mineralization is primarily located along the intrusive contact of the quartz monzonite with the metasediments. A northwest trending, southeast dipping fault is interpreted to cut off the skarn bands to the north.

Skarn bands 1 and 3 may, respectively, represent the upper and lower limbs of an overturned, nearly isoclinal synform. Alternative ly, bands 3 and 4 may represent a northeast plunging antiform related to the earlier isoclinal folding.

The mining operation exposed a 15 to 20 metre section of siliceous skarn containing up to 35 per cent wollastonite. Poor rock exposure along strike prevents detailed examination, but outcrops of wollastonite skarn were identified 170 metres south-southwest of the main showing.

In the pit, wollastonite occurs in calc-silicate zones which strike northeast and dip 60 to 70 degrees northwest. Individual beds

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

are up to 100 centimetres across and consist of massive fresh-looking white wollastonite with fibres up to 3 centimetres long. Clusters of red-brown garnet, up to 6 centimetres across, commonly form 20 to 30 per cent of the total volume. Thin (10 to 100 centimetres) quartzite beds are intercalated with the calc-silicates. A sample analyzed by image analysis contained 75.9 per cent wollastonite (Open File 1991-17).

A total of 18350 tonnes of tungsten ore was produced from this deposit (Open File 1991-17). Indicated reserves of the stockpile are 1360 tonnes grading 1.5 per cent Wo3; indicated reserves in the open pit is 4535 tonnes grading 1.2 percent Wo3; indicated reserves of open pit material is 9071 tonnes grading 1.2 per cent Wo3; indicated reserves in the tailings pond are 18,142 tonnes grading 0.3 per cent Wo3; conversion used for all calculations is 1.2611 to obtain W (Filing Statement 21/84, Troudor Resources Inc.). The wollastonite potential has not been evaluated.

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EMPR EXPL 1978-115,116; 1979-117; 1980-145,146
EMPR FIELDWORK 1978, pp. 93,94; 1988, pp. 493-495; 1991, pp. 247,248
EMPR GEM 1972-94; 1973-117,118
EMPR MAP 65, 1989
EMPR OF *1991-17; 1992-1; 1992-9; 1998-8-M, pp. 1-74
EMPR PF (*United Mineral Services Ltd. (1977): A Geological
Evaluation and Preliminary Economic Evaluation of the Gotcha 2 Mineral Claim; *Elwell, J.P. (1978): Percussion Drilling
Results and Preliminary Cost Study, Gotcha Property;
*Dickinson, R.A. and McClaren, M. (1978): Documentation
Physical Work, Gotcha, Gotcha 2, Max 1 and Max 2 - MEIP
Contract No. 6; *Ryan, B.D. (1979): A Report of Detailed
Geological Mapping Program with Proposed Drill Program, Gotcha
Tungsten Property; *United Mineral Services Ltd. (1979): A
Summary Report and Compilation of Data, Gotcha Tungsten Property;
*Dickinson, R.A. (1980): Diamond Drilling Summary, Gotcha Claims)
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EMR MP CORPFILE (Dimac Resource Corp.)
GSC MAP 48-1963
GSC OF 637
CMJ Oct. 1981
GCNL #241, 1977; #40, 1978; #50,#75, 1979; #163, 1981; #118,#139,
#172, 1982; #154, 1983
IPDM May/June 1984
MIN REV May/June 1984
MIN REV May/June 1983, p. 52
N MINER Sept.10, 1981; July 8,29, 1982; Jan.19, 1984
W MINER Oct. 1981
```

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/08/14 REVISED BY: PSF FIELD CHECK: Y

MINFILE NUMBER: 082M 123

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 124

NATIONAL MINERAL INVENTORY:

NAME(S): ART

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

767

NORTHING: 5665412 EASTING: 293010

LATITUDE: 51 06 10 N
LONGITUDE: 119 57 24 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Map 1 (Assessment Report 4449).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

Sericite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Unknown

HOST ROCK DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP Paleozoic **Undefined Group**  **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Quartzite

Phyllitic Sandstone

HOSTROCK COMMENTS: Okulitch, 1979: Carboniferous Milford Group.

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Thompson Plateau TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The area is underlain by Devonian or older Eagle Bay Formation

rocks consisting of phyllitic sandstone and grit, phyllite and

quartzite.

Scattered galena mineralization is associated with a quartz-

stockwork within quartz-sericite rocks.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*4449, 13298

EMPR MAP 56 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/25

CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

Silver

Stratiform

MINFILE NUMBER: 082M 125

NAME(S): COMPLEX, ZAN, MCLEOD, NEVADA, T, COTTONBELT, CAMP MCLEOD, GRAND MOGUL, STEEPLE JACK,

FAGLE'S NEST

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M07W BC MAP:

LATITUDE: 51 27 30 N

LONGITUDE: 118 49 54 W ELEVATION: 1450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: South east end of sulphide deposit - Preliminary Map 43; see also

Cottonbelt (082M 086) and Copper King (082M 144).

Lead

COMMODITIES: Zinc

Copper

SIGNIFICANT: Galena

Garnet

Sphalerite

Pyrrhotite

**Biotite** 

Magnetite Pyroxene

Amphibole

Pyrite

Chalcopyrite ASSOCIATED: Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

**MINERALS** 

CHARACTER: Vein

Stratabound CLASSIFICATION: Replacement

Industrial Min.

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

DIMENSION: 0020 x 0004

Metres

STRIKE/DIP: 155/40W COMMENTS: Varies in width 1.0 to 4.1 metres and at least 20 metres long and

**FORMATION** 

possibly 600 metres long.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic

LITHOLOGY: Calc-silicate Quartzite

Limestone Marble Carbonatite Pelitic Schist Calcareous Schist

Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Monashee Mountains

RELATIONSHIP: Post-mineralization

GRADE: Amphibolite

PAGE:

NATIONAL MINERAL INVENTORY: 082M7 Zn2

Iron

Massive

MINING DIVISION: Kamloops

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

UTM ZONE: 11 (NAD 83)

Gold

NORTHING: 5702386

**EASTING: 372748** 

REPORT: RGEN0100

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INVENTORY

ORE ZONE: OUTCROP

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1966

**GRADE** COMMODITY

Silver

97.0000 Grams per tonne 5.3700 Lead Per cent

Zinc 6.5100 Per cent COMMENTS: Average of 21 surface chip samples across 1.4 metres along zone.

REFERENCE: Property File (Report by A.R. Allen, 1966).

CAPSULE GEOLOGY

The property lies within the Shuswap Metamorphic Complex along the northwestern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists and locally intruded by carbonatite.

The metasediments comprise the limbs of the Grace Mountain

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

syncline, a tight isoclinal fold trending southeasterly. The mineralized zones occur on both limbs of the syncline within the "Cottonbelt sequence", a heterogeneous package of dominantly calcareous rocks (Fieldwork, 1978). At the base of the Cottonbelt sequence is a buff-weathering carbonatite layer overlain by calcareous schists and a calcareous to relatively pure white quartzite. A distinctive grey-weathering, white limestone overlies the quartzite, which is overlain by interlayered micaeous and calcareous schists and an impure grey-weathering crumbly limestone. The sulphide layer, enveloped by a thin layer of very siliceous calcareous schist and a garnet sillimanite schist, defines the top of the Cottonbelt sequence.

The stratabound mineralization comprises an oxide-sulphide layer traced intermittently through a strike length of 5 kilometres in the western (upper) limb (Cottonbelt zone) of the Grace Mountain syncline and 2 kilometres in the lower limb (Copper King and McLeod zones). It varies in thickness from a few tens of centimetres to approximately 2 metres. Mineralization generally consists of disseminated to massive coarse-grained sphalerite, magnetite, galena and minor pyrrhotite in a dark green, pyroxene-amphibole-quartzgarnet "skarn" rock or, as layers within a lighter coloured, more siliceous calcareous gneiss or as disseminated grains in a siliceous granular marble.

The McLeod zone lies about 460 metres northeast of the Cottonbelt zone (082M 086). The zone is intermittently exposed for a length of 600 metres. The hanging wall is chiefly dark biotite gneiss and the footwall crystalline limestone. Mineralized sections of the zone contain galena, sphalerite and magnetite with lesser pyrite and chalcopyrite. Twenty-one surface chip samples along the exposed length of the zone, returned an average of 5.37 per cent lead, 6.51 per cent zinc, 97 grams per tonne silver across an average of 1.4 metres (Property File Report by Allen, A.R., 1966).

Twenty-one surface chip samples along the exposed length of the zone, returned an average of  $5.37~{\rm per}$  cent lead,  $6.51~{\rm per}$  cent zinc, 92 grams per tonne silver across an average of 1.4 metres (Property File Report by Allen, A.R., 1966).
CanQuest Resource Corporation surveyed the area from 1994 to

1996. See Cottonbelt (082M 086) and Copper King (082M 144).

### **BIBLIOGRAPHY**

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EMPR AR 1906-175; 1907-131-133; 1908-123; 1909-141; 1910-128, 129; 1911-182; 1912-184; 1913-181,182,203,204; 1917-236; 1918-236; 1919-191; 1922-149,151,152; 1927-197

EMPR ASS RPT 486, 2637, 4367, 5953, 6207, *6377, *13822, *14034, 23568, 23985, 24367, 24841

EMPR BULL *80, p. 83

EMPR EXPL 1976-64; 1977-94; 1985-C107
EMPR FIELDWORK *1978, pp. 18-23
EMPR GEM 1970-318; 1973-116
EMPR MAP *43
EMPR OF 1994-8
EMPR PF (*Allen, A.R. (1966): Report on Cottonbelt Property) EMR MP CORPFILE (Great Northern Petroleums & Mines Ltd.)
GSC MAP 12-1964
GSC OF 637
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WWW http://www.canquest.bc.ca/cottonbe.htm
EMPR OF 2000-22
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DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 125

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 126

NATIONAL MINERAL INVENTORY:

NAME(S): TRIDENT MOUNTAIN KYANITE, MT. NEPTUNE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082M16E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

770

LATITUDE: 51 54 33 N LONGITUDE: 118 06 30 W ELEVATION: 2260 Metres NORTHING: 5751516 EASTING: 423760

LOCATION ACCURACY: Within 1 KM

COMMENTS: North part of Area 2, Figure 4, Open File 1988-26.

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Quartz

Garnet **Biotite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Vein Disseminated Lavered

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists SHAPE: Tabular

MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Horsethief Creek Hadrynian Undefined Formation

LITHOLOGY: Kyanite Garnet Biotite Schist

Quartz Kyanite Vein

HOSTROCK COMMENTS: Formation is lower aluminous pelite division.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

In the Trident Mountain area, 15 kilometres east-southeast of Mica Creek kyanite is extremely abundant in pelitic schists and quartz-kyanite segregation veins; kyanite often comprises in excess of 10 per cent of the rock. This area is underlain by the Lower Aluminous Pelite division of the Horsethief Creek Group (Perkins, 1983), a unit which commonly contains abundant aluminosilicate

minerals.

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 11; 1991-10

GSC MAP 12-1964

GSC P 64-32

\*Perkins, M.J. (1983): Structural Geology and Stratigraphy, Big Bend of the Columbia River, Selkirk Mountains, British Columbia; unpublished Ph.D. thesis, Carleton University, Ottawa, Ontario,

239 pages

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/12/11 REVISED BY: I D.I FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 127

NATIONAL MINERAL INVENTORY:

NAME(S): NSP

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

771

NORTHING: 5685213 EASTING: 317275

LATITUDE: 51 17 20 N LONGITUDE: 119 37 14 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Geology, Exploration and Mining 1972-89.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform Disseminated

CLASSIFICATION: Unknown DIMENSION: STRIKE/DIP: 135/40W TREND/PLUNGE: COMMENTS: Foliation.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Spapilem-Deadfall Creeks Unnamed/Unknown Informal Upper Devonian

ISOTOPIC AGE: 98 +/- 4 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartzite

Grit Phyllite

Calc-silicate Schist Quartz Biotite Gneiss

HOSTROCK COMMENTS: Dating by Okulitch, 1979.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The area is underlain by probable Lower Cambrian to Hadrynian age Spapilem Creek-Deadfall Creek Succession (unit SDQ Map 56). The rocks consist of quartzite, micaceous quartzite, grit and phyllite, with lesser staurolite-garnet-mica schist, calcsilicate schist and amphibolite. These rocks are cut by Late Devonian orthogneiss (unit Dgn). To the north the rocks are cut by post-tectonic granitic rocks of the Mid-Cretaceous Baldy Batholith.

Chalcopyrite occurs as disseminations and in thin  $\operatorname{quartz}$ stringers parallel to the foliation in quartz-biotite gneiss.

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 225-236 EMPR GEM 1972-89; 1973-115,116

EMPR MAP 56 EMPR OF 2000-7 GSC MAP 48-1963 GSC OF 637

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/05/05 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Silver

MINFILE NUMBER: 082M 128

NATIONAL MINERAL INVENTORY:

Gold

NAME(S): GABRO, SONJA 11

MINING DIVISION: Kamloops

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12E BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 51 39 30 N LONGITUDE: 119 39 04 W ELEVATION: 450 Metres NORTHING: 5726367 EASTING: 316632

LOCATION ACCURACY: Within 1 KM

COMMENTS: Geology, Exploration and Mining 1972-91.

COMMODITIES: Copper Cobalt

Tungsten

PAGE:

REPORT: RGEN0100

772

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Scheelite Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Cretaceous Raft Batholith

LITHOLOGY: Gabbro

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Barkerville

**CAPSULE GEOLOGY** 

The area is underlain by the Early Cretaceous Raft Batholith. Gold, copper, silver and cobalt occur in quartz carbonate veins  $\,$ in a gabbroic intrusive rock in the river bed of the North Thompson River. Copper and tungsten mineralization occurs on the south side of Forestry Road 30, above the river.

**BIBLIOGRAPHY** 

EMPR EXPL \*1978-E113; \*1979-114; \*1980-143,144

EMPR GEM 1972-91 EMPR OF 1991-17 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 129 NATIONAL MINERAL INVENTORY: 082M4 Ag3

NAME(S): A, SILVER KING

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5661537 EASTING: 322274 LATITUDE: 51 04 40 N

LONGITUDE: 119 32 14 W ELEVATION: 1700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of claim; no evidence of mineral occurrence location.

COMMODITIES: Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Eagle Bay

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

This showing is described as a replacement deposit in limestone of the Eagle Bay Formation. However no original evidence

exists as a reference.

**BIBLIOGRAPHY** 

EMPR ASS RPT 4048, 14410

EMPR EXPL 1986-C109
EMPR GEM \*1971-436; \*1972-86

EMR MP CORPFILE (Orell Copper Mines Ltd.) GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 129

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 130

NATIONAL MINERAL INVENTORY:

NAME(S): BROKEN RIDGE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M05W BC MAP:

NORTHING: 5691771 EASTING: 299108

PAGE:

REPORT: RGEN0100

774

LATITUDE: 51 20 30 N

LONGITUDE: 119 53 04 W ELEVATION: 790 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Broken Ridge Prospect, Fig. No. 357-3 (Assessment Report 14707).

COMMODITIES: Copper 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Galena Sphalerite

Magnetite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Stratiform Disseminated Massive

CLASSIFICATION: Volcanogenic Syngenetic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn STRIKE/DIP: 090/30S DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Calc-silicate

Quartz Sericite Schist Granodiorite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1985 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver 4.2000 Grams per tonne Copper 0.1500 Per cent Per cent

COMMENTS: 8.0 metre sample width REFERENCE: Assessment Report 14707.

7inc

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanics and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. The metavolcanics are intercalated with and overlain by limestone and graphitic argillite and phyllite.

0.0100

The rocks trend northwest, with a prominent foliation dipping moderately to the southwest.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of quartz monzonite to granodiorite composition lies north of the area.

The Broken Ridge showing consists of disseminated to massive pyrite-pyrrhotite-chalcopyrite mineralization with minor galena, sphalerite or magnetite within dark green actinolitic (calc-silicate) schist intercalated with sericite-quartz schist. The zone is about 2 metres wide, strikes east-west and dips 30 degrees south, conforming to local stratigraphy. An 8.0 metre chip sample assayed 0.15 per cent copper, 0.01 per cent zinc and 4.2 grams per tonne silver (Assessment Report 14707).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

EMPR ASS RPT 3333, 14388, \*14707 EMPR EXPL 1971-440; 1976-E62; 1982-113,114; 1986-C115,C120 EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76 EMPR MAP \*53; 56 EMPR OF 1999-2; 2000-7; 2000-31 GSC MAP 48-1963 GSC OF 637 Dickie, G.J.. Preto, V.A. and Schiarizza P. (in preparation Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau - Clearwater area Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau - Clearwater Region; GSA Cordilleran Section Meeting, May 1985, pp. 16-1 to 16-11

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1987/07/30 FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 131

NATIONAL MINERAL INVENTORY:

NAME(S): MAY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

776

LATITUDE: 51 20 15 N LONGITUDE: 119 53 24 W ELEVATION: 840 Metres

NORTHING: 5691323 EASTING: 298703

LOCATION ACCURACY: Within 500M

COMMENTS: May Prospect, Fig. No. 357-3 (Assessment Report 14707).

COMMODITIES: Copper Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Galena Sphalerite

Magnetite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Stratiform Disseminated Massive

CLASSIFICATION: Volcanogenic Syngenetic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Calc-silicate

Quartz Sericite Schist

Granodiorite Argillite Phyllite Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1985 Assay/analysis

**COMMODITY GRADE** Silver Grams per tonne 5.0000 0.4000 Copper Per cent

Per cent 0.0300 7inc

REFERENCE: Assessment Report 14707.

CAPSULE GEOLOGY

The area is underlain by metavolcanics and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. The metavolcanics are intercalated with and overlain by limestone

and graphitic argillite and phyllite.

The rocks trend northwest, with a prominent foliation dipping

moderately to the southwest.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of quartz monzonite to granodiorite composition lies

north of the area.

The May showing consists of disseminated to massive pyritepyrrhotite-chalcopyrite mineralization with minor galena, sphalerite or magnetite within dark green actinolitic (calc-silicate) schist intercalated with sericite-quartz schist. A chip sample assayed over 0.4 per cent copper, 0.03 per cent zinc and 5.0 grams

per tonne silver (Assessment Report 14707).

**BIBLIOGRAPHY** 

EMPR ASS RPT 3333, 14388

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR EXPL 1971-440,441; 1976-E62; 1982-114; 1986-C115 EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76 EMPR MAP \*53; 56 EMPR OF 1999-2; 2000-7 GSC MAP 48-1963 GSC OF 637 Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau - Clearwater area Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau - Clearwater Region; GSA Cordilleran Section Meeting, May 1985, pp. 16-1 to 16-11

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 131

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 132

NATIONAL MINERAL INVENTORY:

NAME(S): MARS CR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

778

NTS MAP: 082M08W BC MAP:

NORTHING: 5689635 EASTING: 404749

LATITUDE: 51 21 00 N

LONGITUDE: 118 22 04 W ELEVATION: 835 Metres LOCATION ACCURACY: Within 1 KM COMMENTS: Paper 1982-1-57.

COMMODITIES: Zinc Cadmium I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite COMMENTS: Zinc with secondary hydrozincite.

ALTERATION: Hydrozincite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Sedimentary

Sandstone Pb

TYPE: E05 SHAPE: Tabular MODIFIER: Folded

STRIKE/DIP: 170/25E TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Cambrian Lardeau Undefined Formation

LITHOLOGY: Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1981 Assay/analysis

**COMMODITY GRADE** Cadmium 0.0100 0.1500 Per cent Per cent I ead

7inc REFERENCE: Fieldwork 1981, page 57.

**CAPSULE GEOLOGY** 

The showing is underlain by sericite-chlorite schist, sericite-quartz-albite schist, biotite-chlorite schist and minor amounts of sericitic quartzite. The rocks strike 170 degrees and

2.2300

Per cent

dip 25 degrees east.

Sphalerite and pyrite, in a manganese-dioxide-stained siliceous metasediments, occur in one metre bands over an exposed

strike length of 10 metres.

Analysis of a grab sample gave 2.23 per cent zinc, 0.15 per cent lead, and 0.01 per cent cadmium (Fieldwork 1981, page 57).

**BIBLIOGRAPHY** 

EMPR ASS RPT 11778

EMPR FIELDWORK \*1981, p. 57

GSC MAP 12-1964 GSC OF 637 GSC P 64-32

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1987/11/17 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 133

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5710699 EASTING: 313749

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

779

NAME(S): SIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12E BC MAP:

LOCATION ACCURACY: Within 1 KM COMMENTS: Old claim centre.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated
CLASSIFICATION: Unknown
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group

**FORMATION** Eagle Bay

LITHOLOGY: Sericite Schist

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Disseminated chalcopyrite is reported in sericite schist of

the Devonian to Mississippian Eagle Bay Formation. No other

information is available.

**BIBLIOGRAPHY** 

EMPR GEM 1971-442

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/21 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 134

NATIONAL MINERAL INVENTORY: 082M12 Cu3

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5710794 EASTING: 295225

REPORT: RGEN0100

780

NAME(S): **KEYSTONE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP:

LATITUDE: 51 30 40 N
LONGITUDE: 119 57 04 W
ELEVATION: 1890 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Annual Report 1925-152.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Devonian-Mississipp. **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

Cretaceous **Baldy Batholith** 

LITHOLOGY: Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1925

> SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent Copper 2.4000

COMMENTS: 10 metre sample width.

REFERENCE: Annual Report 1925, page 152.

**CAPSULE GEOLOGY** 

A zone of copper mineralization occurs along the contact between granite of the Cretaceous Baldy Batholith and schists of the Devonian to Mississippian part of the Eagle Bay Formation. A value of 2.4 per cent copper was reported to occur across 10 metres (Annual Report 1925-152).

**BIBLIOGRAPHY** 

EMPR AR 1924-152 GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/02/04 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 135

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

781

NAME(S): **SAN**, POP, LEEMAC, WR, LUCKY BEAR, ZEB

STATUS: Past Producer Underground MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 21 30 N LONGITUDE: 119 44 34 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 500M COMMENTS: Trench 3, plate No. 2 and 3 - Assessment Report 5939. NORTHING: 5693245 EASTING: 309043

COMMODITIES: Silver 7inc I ead Gold Copper

MINERALS
SIGNIFICANT: Pyrite
Ouartz
Ouartz Galena Sphalerite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Syngenetic
TYPE: I05 Poly
SHAPE: I05 Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 025/45W TREND/PLUNGE:

COMMENTS: Quartz vein.

**HOST ROCK** DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Devonian Undefined Group Eagle Bay

Cretaceous **Baldy Batholith** 

LITHOLOGY: Granite

Quartzite Mica Schist Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

A strongly porphyritic, reddish granite of the Cretaceous Baldy Batholith intrudes Upper Paleozoic metasediments consisting

of mica schists, quartzites, argillites and slates.

Mineralization occurs within the granite near the contact
with the metasediments. Pyrite and minor galena, sphalerite and chalcopyrite occurs as blebs and streaks in a sheared quartz vein up to 1.1 metre wide along a 100 metre north east strike. A 1 metre sample gave 278 grams per tonne silver, 0.47 per cent lead,

0.39 per cent zinc and trace gold.

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 193-206, 225-236; 2001, pp. 237-246

EMPR AR 1966-145,248
EMPR ASS RPT \*807, \*5939, \*7532, \*12115, 18182
EMPR EXPL 1976-E63; 1979-111; 1983-158

EMPR GEM 1970-315,316

EMPR OF 2000-7 GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/05/06 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 136

NATIONAL MINERAL INVENTORY:

NAME(S): MOSQUITO, BUG, MAX

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

782

LATITUDE: 51 51 30 N LONGITUDE: 119 40 24 W ELEVATION: 1400 Metres

NORTHING: 5748661 EASTING: 315911

ELEVATION: 1400 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Main showing, Drawing No. MC 76-9 (Assessment Report 6071).

COMMODITIES: Copper Molybdenum Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Amphibole

Pyrite Chalcopyrite Epidote Actinolite

Molybdenite Magnetite

ALTERATION: Epidote
ALTERATION TYPE: Epidote
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Syngenetic

Disseminated

\_ASSIFICATION: Syngenetic SHAPE: Irregular

COMMENTS: Main showing.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Proterozoic-Cambrian FORMATION IGNEOUS/METAMORPHIC/OTHER
Shuswap Metamorphic Complex

LITHOLOGY: Amphibolite

Schist

Granitic Gneiss

Quartz Feldspar Pegmatite

Quartz Diorite

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville

METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1975

SAMPLE TYPE: Chip

 COMMODITY
 GRADE

 Silver
 2.4000
 Grams per tonne

 Gold
 0.1700
 Grams per tonne

 Copper
 0.2400
 Per cent

Copper
COMMENTS: 10 metre sample width.
REFERENCE: Assessment Report 5836.

**CAPSULE GEOLOGY** 

The property is underlain by rocks of the Shuswap Metamorphic Complex of unknown but probable Paleozoic age. The rocks comprise granite gneiss, biotite-muscovite-quartz schist, amphibolite, muscovite-chlorite schist and marble. They are interbedded in layers from 1 to 15 metres thick and strike north to northwesterly and dip from vertical to 35 degrees east. Quartz-feldspar pegmatite and quartz-diorite are both conformable to and disruptive of the normal bedding and schistosity.

Sulphide mineralization, consisting of disseminations, blebs and layers of pyrite, pyrrhotite and chalcopyrite, occurs within amphibolite and schists. Within the amphibolite, chalcopyrite occurs with epidote and magnetite in locally rich pods up to 10 metres long by 3 metres across. A 10 metre wide chip sample of the main showing assayed 0.24 per cent copper, 2.4 grams per tonne silver and 0.17 grams per tonne gold (Assessment Report 5836).

Intermittent sulphide mineralization occurs over a 500 metre strike length in a north northwest direction. Molybdenite is noted in a few localities in pegmatite dykes.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 5189, \*5836, \*6071, 7561, \*11093 EMPR EXPL 1976-E74; 1979-117,118; 1982-123,124 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 136

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 137

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - MAIN BOULDER** 

STATUS: Prospect REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

784

NTS MAP: 082M13E BC MAP: LATITUDE: 51 55 00 N

NORTHING: 5754926 **EASTING: 322262** 

LONGITUDE: 119 35 04 W ELEVATION: 1100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drilling area, Plate 2 (Assessment Report 8317).

COMMODITIES: Zinc. I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrrhotite Galena Chalcopyrite **Pyrite** Amphibole Cálcite Diopside

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Disseminated Massive

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Irregular MODIFIER: Folded

STRIKE/DIP: 115/41N TREND/PLUNGE: DIMENSION: 0120 x 0020 Metres

COMMENTS: Mineralized zone.

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex STRATIGRAPHIC AGE Proterozoic-Cambrian GROUP **FORMATION** 

LITHOLOGY: Calc-silicate Gneiss

Amphibolite Quartzite

Quartz Feldspar Hornblende Gneiss

Marble Granitic Intrusive Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville
METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1979

COMMODITY

**GRADE** Copper 0.0400 4.8800 Per cent Lead Per cent Zinc 23.4500 Per cent

COMMENTS: 0.6 metre sample width. REFERENCE: Fieldwork 1979, pages 23-27.

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary rocks of the Shuswap Metamorphic Complex consisting of quartz-feldspar-hornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble of unknown but probable Paleozoic age. pegmatites and granitic intrusives. The metasediments are cut by

The general structure of the area is composed of an eastfacing succession folded into a broad open, east-plunging synformal structure. Locally the structures are complex resulting in dip reversals and repetition and omission of lithologies. Sphalerite, pyrrhotite and minor galena occur in a northeast trending massive sulphide layer generally less than 1 metre thick. The layer is confined to a calcareous horizon consisting of calc-silicate gneiss and carbonates which is structurally

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

underlain by well-layered hornblende gneiss and amphibolite and overlain by quartz-feldspar gneiss and pelitic schist.

The Main Boulder showing is probably a continuation of the same sulphide horizon that occurs in the New showing (082M 224), inferring the presence of a fault in the creek separating them. Structural complexities at the Main Boulder showing hinder tracing a small trenched outcrop of massive sulphides for more than a few metres.

A 0.6 metre chip sample assayed 23.45 per cent zinc, 4.88 per cent lead and 0.04 per cent copper (Fieldwork, 1979).

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*5189, \*5192, \*6756, \*6909, \*7299, \*7644, \*8317, 16030, 25641

EMPR BULL \*80, p. 87

EMPR EXPL 1976-E75; 1978-E116; 1979-E118; 1980-146,147

EMPR FIELDWORK \*1979, pp. 23-27

EMPR GEM 1974-99

EMPR PF (\*White, G. (1974): Reports (3) on the CK Property; Geologic notes in letter to N.C. Carter from T. Hoy, 1979)

GSC MAP 48-1963
GSC OF 637

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 137

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 138 NATIONAL MINERAL INVENTORY: 082M4 Zn2,Cu1

 $\mathsf{NAME}(\mathsf{S}) \colon \: \underline{\mathsf{CU} \: \mathsf{1}}, \, \mathsf{ZINC}, \, \mathsf{BOWLER} \: \mathsf{CREEK}$ 

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 00 20 N

LONGITUDE: 119 30 14 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of zinc zone, Fig. 1 (Assessment Report 11254).

COMMODITIES: Silver 7inc Lead Copper Iron

Gold Molybdenum Cadmium

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite Magnetite Pyrite

Pyrrhotite ASSOCIATED: Chlorite ALTERATION: Pyrrhotite Quartz **Epidote Epidote** ALTERATION TYPE: Silicific'n **Epidote** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive

CHARACTER: Concordant Disseminated
CLASSIFICATION: Volcanogenic Industrial Min.
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn
SHAPE: Tabular

Metres DIMENSION: 1600 x 0600 Metres STRIKE/DIP: 060/20N

COMMENTS: Area of exposed sulphide zones.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Andesite Tuff

Rhyolite Ignimbrite Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

RELATIONSHIP: GRADE: Greenschist METAMORPHIC TYPE: Regional

INVENTORY

ORE ZONE: CU 1 REPORT ON: Y

REFERENCE: Property File - Black, 1976; Assessment Report 13381, page 17.

CATEGORY: YEAR: 1985 Indicated

148000 Tonnes QUANTITY: **GRADE** COMMODITY Silver 49.7000 Grams per tonne Cadmium 0.2500 Per cent Copper 0.1900 Per cent Molybdenum 0.1400 Per cent 0.5300 Per cent Lead 2.4300 Per cent

CAPSULE GEOLOGY

The property is underlain by north east trending metavolcanics of the Cambrian to Ordovician part of the Eagle Bay Formation. The  $\,$ metavolcanics consist of bedded andesitic fragmentals and flows, siliceous tuffites with some rhyolite ignimbrites, tuffs, and fragmentals. The andesite and tuffite contain abundant siliceous and/or cherty layers. Small amounts of pyrite, pyrrhotite, chalcopyrite and sphalerite are disseminated in the rocks. Northeast-north trending quartz feldspar porphyry dykes cut the metavolcanics.

Numerous zones of massive galena, sphalerite, pyrrhotite, pyrite and magnetite with minor chalcopyrite occur in conformable chlorite and/or epidote rich layers. Layers of massive sulphides are 4 metres or more.

MINFILE NUMBER: 082M 138

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5653427 EASTING: 324336

TREND/PLUNGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The zinc zone covers an area measuring about 1600 by 600 metres in an east northeast trend with 20 to 35 degree dips to the northwest. This zone lies about 1 kilometre southeast of the BC zone  $(082M\ 139)$ .

A drillhole intersected 1.53 per cent lead, 1.09 per cent zinc and 10.9 grams per tonne silver over 1.13 metres (Assessment Report 14681). Indicated reserves are 148,000 tonnes grading 49.7 grams per tonne silver, 0.25 per cent cadmium, 0.19 per cent copper, 0.14 per cent molybdenum, 0.53 per cent lead and 2.43 per cent zinc (Property File - Black, 1976; Assessment Report 13381, page 17).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 138

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 139 NATIONAL MINERAL INVENTORY: 082M4 Zn2,Cu1

NAME(S): CU 5, BC, BOWLER CREEK

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 00 40 N

LONGITUDE: 119 30 54 W ELEVATION: 1600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of BC zone, Fig. 1 (Assessment Report 11254).

COMMODITIES: Zinc. Silver Copper I ead Iron

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Sphalerite Magnetite

Galena ASSOCIATED: Quartz Chlorite **Epidote Epidote** 

ALTERATION: Pyrrhotite
ALTERATION TYPE: Silicific'n **Epidote** MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated Massive

CHARACTER: Concordant
CLASSIFICATION: Volcanogenic Industrial Min.

TYPE: G06 SHAPE: Tabular Noranda/Kuroko massive sulphide Cu-Pb-Zn

DIMENSION: 1400 x 0400 STRIKE/DIP: 060/20N TREND/PLUNGE: Metres

COMMENTS: Area of exposed sulphide zones; mineralized lenses up to 1.5 metres.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Group Eagle Bay

LITHOLOGY: Andesite

Tuff Rhyolite Ignimbrite Porphyritic Dike

7inc

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: CU 5 REPORT ON: Y

> CATEGORY: Indicated YEAR: 1985

QUANTITY: 181000 Tonnes

COMMODITY Silver 54.9000 Grams per tonne 0.2000 Copper Per cent Lead 1.0000 Per cent

2.7200 Per cent REFERENCE: Assessment Report 13381, page 17; Property File - Black, 1976.

CAPSULE GEOLOGY

The property is underlain by north east trending metavolcanics of the Cambrian to Ordovician part of the Eagle Bay Formation. The metavolcanics consist of bedded andesitic fragmentals and flows, siliceous tuffites with some rhyolite ignimbrites, tuffs, and fragmentals. The andesite and tuffite contain abundant siliceous and/or cherty layers. Small amounts of pyrite, pyrrhotite, chalcopyrite and sphalerite are disseminated in the rocks. Northeast north trending quartz feldspar porphyry dykes cut the metavolcanics.

Numerous zones of massive galena, sphalerite, pyrrhotite, pyrite and magnetite with minor chalcopyrite occur in conformable chlorite and/or epidote rich layers. Layers of massive sulphides are 4 metres or more.

The BC zone covers an area measuring about 1400 metres by 400 metres in an east-northeast trend with 15 degrees to 30 degrees dips to the northwest. This zone lies about 1 kilometre northeast of the

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5654071 EASTING: 323577

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Zinc zone (082M 138). The best drill intersection (Diamond Drill Hole Harry 1-85) assayed 1.2 per cent zinc, 1.0 grams per tonne silver and .08 per cent copper over 0.84 metres (Assessment Report 14681). A drillhole (Diamond Drill Hole Harry 3-85), 250 metres south west of the first, intersected 0.3 per cent zinc, 7.9 grams per tonne silver and 0.16 per cent copper over 0.27 metre. Indicated reserves are 181,000 tonnes grading 54.9 grams per tonne silver, 0.2 per cent copper, 1.0 per cent lead and 2.72 per cent zinc (Assessment Report 13381, page 17; Property File - Black, 1976).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 139

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Sphalerite

MINFILE NUMBER: 082M 140

NAME(S): ORO, MK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 03 40 N

LONGITUDE: 119 30 54 W ELEVATION: 1690 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill Hole, Map (Assessment Report 4932, 6420).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Pyrrhotite Pyrite

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Sedimentary

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP** 

Cambrian **Undefined Group** 

**FORMATION** Eagle Bay

7inc

IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 082M4 Cu2

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5659630 EASTING: 323767

REPORT: RGEN0100

790

LITHOLOGY: Phyllite

Limestone Porphyritic Dike Andesitic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay
METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Adams Plateau

GRADE: Greenschist

#### CAPSULE GEOLOGY

The area is underlain by Lower Cambrian rocks of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends. The ORO showing occurs within thinly bedded light and dark argillaceous phyllites cut by andesite and hornblende porphyry dykes.

Mineralization consists of disseminated and veinlets of pyrite, pyrrhotite and chalcopyrite with very minor sphalerite in a drill

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GSC OF 637

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CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/04/11 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 141 NATIONAL MINERAL INVENTORY: 082M9 Cu2

NAME(S): **GOLDSTREAM**, GOLDSTREAM MINE

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 37 30 N NORTHING: 5720298 LONGITUDE: 118 25 44 W ELEVATION: 700 Metres EASTING: 401091

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper Silver Gold 7inc Cadmium

Antimony

**MINERALS** SIGNIFICANT: Pyrrhotite Chalcopyrite Sphalerite Pyrite

ASSOCIATED: Quartz Calcite Chlorite ALTERATION: Malachite Azurite Hydrozi COMMENTS: Sulphides occur in an altered envelope. Hydrozincite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

Stratabound Disseminated

CHARACTER: Stratiform Massive
CLASSIFICATION: Volcanogenic
TYPE: G04 Besshi massive sulphide Cu-Zn
SHAPE: Tabular
MODIFIER: Sheared
DIMENSION: 1500 x 400 x 3 Metres

STRIKE/DIP: 110/35N TREND/PLUNGE:

COMMENTS: Goldstream deposit.

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Lower Cambrian Lardeau Undefined Formation

LITHOLOGY: Sericitic Quartzite

Calcareous Phyllite

Chloritic Phyllite Quartzitic/Quartzose Phyllite

Greenstone Pelitic Schist Limestone Calc-silicate Gneiss **Biotite Gneiss** Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: GOLDSTREAM REPORT ON: Y

> CATEGORY: YEAR: 1996 Proven

QUANTITY: 22000 Tonnes **GRADE** COMMODITY

Copper 3.5000 Per cent 2.1500 Per cent

COMMENTS: Reserves estimated as of January 1, 1995.

REFERENCE: Information Circular 1997-1, page 10.

CAPSULE GEOLOGY

The Goldstream property is underlain by Lower Cambrian and younger metasediments and metavolcanics of the Lardeau Group. It is flanked on the west by the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex and on the east by Hadrynian Horsethief Creek

Group rocks.

The metasedimentary and metavolcanic rocks comprise five major lithologic packages. The lowest unit consists of dominantly pelitic and calcareous schists and marble and lies to the east of the property. This unit is overlain by a succession of rocks consisting

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

of four main divisions (Bulletin 71).

The lower quartzite-schist division consists dominantly of pelitic schist and micaceous quartzite. The overlying calc-silicate gneiss division is comprised of calcareous phyllite and quartzite, marble and biotite gneiss. The metavolcanic-phyllite division, consisting of massive greenstone units, chloritic phyllite, ultramafic pods and dark calcareous to pelitic schists, is the host for the Goldstream deposit. The final carbonate-phyllite division consists of dolomite and limestone.

The dominant structure in the area are large, tight to isoclinal, east dipping to recumbent phase 2 folds. The average strike in the deposit area is 290 degrees with 35 degree northeast

The Goldstream deposit is a thin, conformable sheet of massive sulphides in sericitic quartzite and calcareous and chloritic phyllite within the metavolcanic-phyllite division. Regional structures suggest the succession is inverted, with the oldest rocks in the hanging wall of the deposit.

The massive sulphide layer averages from 1 to 3 metres in thickness, has a strike length of 400 metres and continues down plunge for 1500 metres, dipping at 30-35 degrees. Near its western and eastern limits it splits into two layers separated by a narrow zone of quartzitic phyllite. The contacts of the sulphide zone with hanging wall and footwall rocks vary from sharp to gradational and from smooth to highly contorted and brecciated.

The sulphide layer consists mainly of intimately intermixed pyrrhotite, chalcopyrite and sphalerite with numerous subrounded inclusions of quartz, phyllite and carbonate. The layer has a pronounced lateral zonation with zinc (zinc + copper) increasing to the east. No vertical zonation is apparent within the layer.

The metal contents of hanging wall rocks are variable, with copper and zinc value ranging from 0.1 to 2.5 per cent and silver averaging 2 to 7 grams per tonne. Grades and thickness of mineralization is less in the footwall.

The Goldstream mine was reactivated and milling of ore began on May 2, 1991 with commercial production beginning June 1, 1991. the end of November 1991, 237,532 tonnes of ore had been milled and 8,380,527 kilograms of copper recovered. Although zinc was not yet being recovered, a smelting contract was signed with Cominco Ltd., and zinc recovery was expected to begin by March 31, 1992. Preproduction mineable reserves were calculated to be 1,859,555 tonnes averaging 4.81 per cent copper and 3.06 per cent zinc, sufficient for a 5 year mine life. Drilling early in 1991 traced the deposit to further depths, adding reserves (George Cross News Letter No.5 (January 8), 1992).

Since mine start-up in May 1991, to the end of September 1992, some 571,496 tonnes of ore had been milled and 19,051,200 kilograms of copper in concentrates shipped to Nippon Mining Co. in Japan. Copper recovery continues to average 91 per cent with the production of a copper concentrate containing about 24 per cent copper. The zinc circuit started in April 1992 and is producing a zinc concentrate which is being sold to Cominco Ltd.'s smelter at Trail, B.C. Zinc recovery is 22 per cent producing a concentrate with an average grade of 47 per cent zinc. To the end of September 1992, 816,480 kilograms of zinc has been sold (George Cross News Letter No. 202 (October 20), 1992)).

The proven reserves at the mine were recalculated as of April 1993 and stand at 1.436 million tonnes grading 4.48 per cent copper, 3.03 per cent zinc and 8.2 grams per tonne silver. There are 840,000 tonnes above the 350-metre interval, with the remainder within the 350-100 metre interval (George Cross News Letter No.93 (May 14), 1993; Information Circular 1994-1, page 7).

Reserves as of January 1, 1994—1, page 7).

Reserves as of January 1, 1994 were repoted to be approximately 1 million tonnes grading 4.31 per cent copper, 2.94 per cent zinc and 12 grams per tonne silver (Information Circular 1994—19, page 7).

Reserves estimated by the company were approximately 600,000 tonnes grading 4.2 per cent copper, 2.3 per cent zinc and 18.0 grams per tonne silver as of January 1, 1995. In mid-July 1995, milling operations were temporarily shut down following slow ramp development and poorer than expected ore recovery in the 250-metre panel. Milling resumed in September and is scheduled to continue until January 31, 1996 when the economic limits of the existing orebody will have been reached (Information Circular 1995-9, page 7)

In 1995, partly with Explore B.C. Program support, Bethlehem Resources Corporation, a subsidiary of Imperial Metals Corporation, completed a surface and underground diamond drilling program with a threefold objective: deep drilling east of the orebody, test the western extension of the Goldstream stratigraphy, and test the stratigraphy below the ore horizon. The program consisted of 2

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

surface and 4 underground holes totalling 1611.77 metres. None of the holes intersected economic mineralization. The two surface holes intersected the mine stratigraphy east and west of the orebody but no massive sulphides. Deep drilling by the four underground holes intersected a garnet- bearing sulphide horizon at the lower contact of the greenstone unit. This zone contains up to 50 per cent pyrrhotite and has a skarn-like mineralogy with garnets, epidote and tremolite within the sulphide horizon but was found not to be of economic grade (Explore B.C. Program 95/96 - A105). The mine was closed in January, 1996.

Reserves stand at 22,000 tonnes grading 3.5 per cent copper and 2.15 per cent zinc (Information Circular 1997-1, page 10).

Production from 1983 to 1996 totalled 2,224,387 tonnes yielding 26,228,450 grams of silver, 42,363 grams of gold, 78,269,389 kilograms of copper and 7,988,112 kilograms of zinc.

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EMPR OF 1998-10
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1996/11/13 REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 142 NATIONAL MINERAL INVENTORY:

NAME(S): TRIO

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M14W BC MAP:

LATITUDE: 51 50 30 N

LONGITUDE: 119 20 04 W ELEVATION: 1300 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showings, Map 1 (Assessment Report 5125).

COMMODITIES: Copper Silver Gold Molybdenum 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Molybdenite Pyrite Malachite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Replacement **Epigenetic** SHAPE: Irregular DIMENSION: 15 x

x 6 STRIKE/DIP: TREND/PLUNGE: Metres COMMENTS: Main showing.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Quartz Sericite Schist

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1973 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** Silver 85.0000 Grams per tonne Gold 0.0300 Grams per tonne Copper 7.8500 Per cent Per cent

COMMENTS: Traces of molybdenum.

7inc

REFERENCE: Assessment Report 5125.

CAPSULE GEOLOGY

The property is underlain by the Proterozoic Shuswap Metamorphic

Complex with granite to quartz monzonite intrusives.

The main showing is a 15 by 6 metre zone containing malachite, pyrite and chalcopyrite within quartz sericite schist.

0.0300

About a kilometre south are several molybdenite showings within quartz veins in granite. One location contained silver, lead, zinc and molybdenite mineralization with a grab sample assaying 7.85 per cent copper, 0.03 per cent zinc, 85 grams per tonne silver, 0.03 grams per tonne gold and less than .001 per

cent molybdenum.

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GSC MAP 48-1963

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/07/30 FIELD CHECK: N

MINFILE NUMBER: 082M 142

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UTM ZONE: 11 (NAD 83)

NORTHING: 5746005 EASTING: 339185

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 143

NATIONAL MINERAL INVENTORY:

NAME(S): PET, SILVERBELL

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

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795

NTS MAP: 082M04E BC MAP: LATITUDE: 51 02 40 N

NORTHING: 5657824 EASTING: 322341

LONGITUDE: 119 32 04 W ELEVATION: 1600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Assessment Report 10794, p. 9.

COMMODITIES: Lead Zinc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrrhotite Pyrite Chalcopyrite ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Disseminated

CLASSIFICATION: Unknown

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

DIMENSION: STRIKE/DIP: 060/30N TREND/PLUNGE:

COMMENTS: Approximate attitude of strata.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Phyllite

Tuff Gossan Porphyritic Dike Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Granulite

INVENTORY

ORE ZONE: GOSSAN REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1982

 SAMPLE TYPE:
 Rock

 COMMODITY
 GRADE

 Silver
 38.4000

 Silver
 38.4000
 Grams per tonne

 Gold
 1.8000
 Grams per tonne

 Copper
 0.0900
 Per cent

 Lead
 2.9900
 Per cent

 Zinc
 5.5400
 Per cent

COMMENTS: Traces of tungsten. 2.1 metre wide sample.

REFERENCE: Assessment Report 10794.

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

A mineralized gossan, 100 by 10 metres, occurs within silicified tuffs and phyllites along a north 060 degree trend. Mineralization consists of pyrite, pyrrhotite, sphalerite, galena, and minor chalcopyrite. A 2.1 metre wide sample gave 2.99 per cent lead, 5.54 per cent zinc, 0.09 per cent copper, 38.4 grams

per tonne silver and 1.8 grams per tonne gold.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, pp. 307-320 EMPR ASS RPT 5919, 7019, \*10794, 11264

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1976-E59; 1982-110

EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76

EMPR MAP 56

EMPR OF 1999-2

GSC MAP 48-1963; 5320G

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/04/14

CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 144

NATIONAL MINERAL INVENTORY: 082M7 Cu1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5703328

EASTING: 372192

PAGE:

REPORT: RGEN0100

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NAME(S): COPPER KING, VEGAS, SNAKE EYES, COPPER QUEEN, CHALCOCITE, QUEST,

COTTONBELT

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M07W

BC MAP: LATITUDE: 51 28 00 N LONGITUDE: 118 50 24 W ELEVATION: 1200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Northwest end of sulphide deposit - Preliminary Map 43 - also see

also Cottonbelt (082M 086) and Complex (082M 125).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown Pyrite Sphalerite Bornite Chalcocite Sillimanite Garnet

**DEPOSIT** 

CHARACTER: Vein Stratabound Disseminated

CLASSIFICATION: Replacement

TYPE: E04 Sediment-hosted Cu SHAPE: Tabular

DIMENSION: Metres

STRIKE/DIP: 156/40W TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Quartzite

Marble Gneiss Schist Carbonatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The property lies within the Shuswap Metamorphic Complex along the northwestern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists, and locally intruded by carbonatite.

The mineralized zones occur on both limbs of the syncline within the "Cottonbelt sequence", a heterogeneous package of dominantly calcareous rocks (Fieldwork, 1978). At the base of the Cottonbelt sequence is a buff-weathering carbonatite layer overlain by calcareous schists and a calcareous to relatively pure white quartzite. A distinctive grey-weathering, white limestone overlies the quartzite, which is overlain by interlayered micaeous and calcareous schists and an impure grey-weathering crumbly limestone. The sulphide layer, enveloped by a thin layer of very siliceous calcareous schist and a garnet sillimanite schist, defines the top of the Cottonbelt sequence.

The main copper showing suggests a zone comprising several bands of quartz mineralized with chalcopyrite and minor bornite, sphalerite and pyrite alternating with beds of mica-schist and crystalline limestone. The chalcopyrite occurs as blebs and

disseminations in the quartz.

A sample taken in 1913 assayed trace gold, 6.8 grams per tonne silver, and 7.3 per cent copper (Annual Report 1913, page 203).

CanQuest Resource Corporation surveyed the area from 1994 to 1996. See Cottonbelt (082M 086) and Complex (082M 125).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

EMPR AR 1907-131,132,133; 1909-139,140,141; 1912-184, \*1913-181, 182,202,203; 1917-236; 1918-236; 1919-191; 1922-149,151,152 EMPR ASS RPT 486, 958, 1768, 2637, 4367, \*5952, 6207, 6377, \*14034, 23568, 23985, 24367, 24841 EMPR BULL \*80, p. 83 EMPR EXPL 1976-64,65; 1977-94; 1985-C107 EMPR FIELDWORK \*1978, pp. 18-23 EMPR GEM 1970-318; 1973-116 EMPR MAP 43 EMPR MAP 43 EMPR OF 1994-8
EMR MP CORPFILE (Great Northern Petroleums & Mines Ltd.) GSC MAP 12-1964 GSC OF 637 WWW http://www.canquest.bc.ca/cottonbe.htm

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 145

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

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NAME(S): STANDARD 4

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 22 35 N NORTHING: 5692415 LONGITUDE: 118 14 34 W ELEVATION: 2140 Metres EASTING: 413504

LOCATION ACCURACY: Within 500M

COMMENTS: Drill site - Assessment Report 6070.

COMMODITIES: Copper Silver Gold 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Calcite Pyrrhotite Pyrite

Talc

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic TYPE: G04 Bessh SHAPE: Irregular

Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Cambrian **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau Index

LITHOLOGY: Greenstone Limestone

Phyllite Chlorite Schist

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The Standard 4 claims are underlain by probable Lower Paleozoic metasedimentary and metavolcanic rocks. The dominant structure in the area is a north-south trending isoclinal anti-form, plunging gently (3 to 4 degrees) to the north.

Chalcopyrite, associated with pyrrhotite and carbonate banding, occurs in a talc-rich chlorite schist. This is part of a greenstone sequence comprising the east limb of the antiform.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6070, 6187

EMPR BULL 71

EMPR EXPL 1976-66; 1977-95,96

EMPR OF 1999-2 GSC MAP 12-1964 GSC OF 637 Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1986/02/25 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 146

NAME(S): FIM, FR1

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M09W BC MAP:

LATITUDE: 51 31 40 N LONGITUDE: 118 15 04 W ELEVATION: 2095 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Area of drilling, Fig. 2 (Assessment Report 12687).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Garnet

ALTERATION: Diopside

Diopside Quartz

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

Skarn

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement TYPE: K05 W skarn

Hydrothermal

Skarn

SHAPE: Tabular MODIFIER: Folded

COMMENTS: Surface exposure length of skarn zone investigated by diamond drilling

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

**GROUP** 

STRATIGRAPHIC AGE Cambrian Lardeau **FORMATION** Index

IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5709260

EASTING: 413211

LITHOLOGY: Marble

Argillite Phyllite Skárn

Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

NATIONAL MINERAL INVENTORY:

METAMORPHIC TYPE: Contact

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The property is underlain by phyllites, carbonates, argillites, volcanic flow rocks and minor quartzites of probable Lower Paleozoic Lardeau Group. The rocks are variously hornfelsed.

The metasediments and metavolcanics are intruded by a quartz monzonite pluton of Cretaceous (?) age. Massive garnet-diopside skarn is developed along the contact of the pluton. The skarn occurs as a conformable replacement along the base of marble units.

Several lead and zinc vein and replacement showings exist in

the area.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*10398, \*11164, \*12687 EMPR BULL 71

EMPR MAP 25 EMPR OF 1991-17 GSC MAP 12-1964 GSC OF 637

GSC P 64-32 Placer Dome File

DATE CODED: 1985/07/24 CODED BY: REVISED BY: LDJ DATE REVISED: 1986/03/10

MINFILE NUMBER: 082M 146

FIELD CHECK: N

FIELD CHECK: N

PAGE: 800 REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 147

NATIONAL MINERAL INVENTORY:

NAME(S): KJ

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP:

UTM ZONE: 11 (NAD 83)

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LATITUDE: 51 33 20 N LONGITUDE: 118 25 39 W ELEVATION: 2280 Metres

NORTHING: 5712573 EASTING: 401036

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Bulletin 71-28, 33; Figure 2, (Assessment Report 5810).

COMMODITIES: Lead 7inc Silver Gold

**MINERALS** 

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown Sphalerite Pyrrhotite Pyrite

**DEPOSIT** 

CHARACTER: Vein Stratabound
CLASSIFICATION: Volcanogenic
TYPE: E14 Sedimentary exhalative Zn-Pb-Ag Disseminated

SHAPE: Tabular DIMENSION: 0200 x 0035 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Drill results indicate true width 35 metres and its continuity

down dip greater than 200 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Lardeau Index

LITHOLOGY: Marble

Calc-silicate Gneiss Phyllite

Limestone

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1977

SAMPLE TYPE: Drill Core **GRADE** 

COMMODITY Silver 21.0000 Grams per tonne 1.8500 Gold Grams per tonne Lead 1.8500 Per cent Per cent Zinc 0.8700

COMMENTS: 5 metre width, weighted, and averaged.

REFERENCE: Assessment Report 6712.

CAPSULE GEOLOGY

Host rocks for the mineralization are dolomitized limestone within the metavolcanic-phyllite division (Bulletin 71) which is probably correlative to the Index formation of the Lardeau Group (Lower Paleozoic).

Mineralization occurs as narrow stringers or blebs of galena, sphalerite, pyrrhotite or pyrite, with silver in calcite marble, calc-silicate gneiss or quartz veins that cut the marble and gneiss. The mineralization appears to be stratabound, distributed erratically through a pure to very siliceous marble/calc-silicate gneiss layer several tens of metres thick.

A second, similar type of mineralization occurs about 1000 metres to the east, within a limestone unit which is a member of the carbonate-phyllite division (Bulletin 71).

Mineralization consists of stringers of pyrrhotite with associated sphalerite adjacent and below the limestone unit. The zone can be traced for 350 metres across cliff faces and appears to be up to 4 metres wide (Assessment Report 6712).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

A weighted 5 metre drill hole assay averaged 1.85 grams per tonne gold, 21.0 grams per tonne silver, 1.85 per cent lead, and 0.87 per cent zinc (Assessment Report 6712).

### **BIBLIOGRAPHY**

EMPR ASS RPT 5810, \*6712, \*9081, 10180, \*11021, 15484 EMPR BULL 71, pp. 28,33,Fig. 2 EMPR EXPL 1976-67,68; 1978-111; 1982-120 EMPR MAP 25 EMPR PF (\*Ramani, S.V. (1974): Geological Report on the KJ 1-20 Claim Group in Centpac Development Inc Prospectus) GSC MAP 12-1964 GSC OF 637 GSC P 64-32, p. 32 GSC SUM RPT 1929, part A, pp. 155,157,160-163 GCNL Apr. 10, 1980 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 148

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5709151 **EASTING: 402222** 

REPORT: RGEN0100

803

NAME(S): O'REILLY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 31 30 N
LONGITUDE: 118 24 34 W
ELEVATION: 1500 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: High geochemical anomaly (Assessment Report 6103).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Pyrrhotite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated Massive

CLASSIFICATION: Sedimentary Syngenetic

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian GROUP Lardeau **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau

LITHOLOGY: Pelitic Schist

Quartzite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

CAPSULE GEOLOGY The property is underlain by a thick sequence of siliceous

metasedimentary rocks consisting predominantly of quartz-mica schist, grey quartzite and micaceous quartzite with minor interbeds of carbonate-graphite phyllite.

Mineralization occurs as sparse pockets of massive pyrite, pyrrhotite and chalcopyrite within quartz blebs and as finely disseminated stratabound pyrrhotite and chalcopyrite within

quartzites.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6103, 11056, 15484

EMPR BULL 71, p. 28
EMPR EXPL 1976-68; 1978-110,111; 1982-120,121

EMPR MAP 25 GSC MAP 12-1964 GSC OF 637 GSC P 64-32 GCNL #51, 1980

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Talc

MINFILE NUMBER: 082M 149

NATIONAL MINERAL INVENTORY:

NAME(S): BEND, GR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

804

NTS MAP: 082M10E BC MAP:

NORTHING: 5722621 **EASTING: 393253** 

LATITUDE: 51 38 40 N LONGITUDE: 118 32 34 W ELEVATION: 700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Map 1, (Assessment Report 6176).

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrrhotite Pyrite Talc Graphite Chlorite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Volcanogenic Hydrothermal
TYPE: E14 Sedimentary exhalative Zn-Pb-Ag
SHAPE: Tabular Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau Index

LITHOLOGY: Muscovite Schist

Dolomite Quartzite Chlorite Schist Greenschist Graphitic Schist Talc Schist Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1977 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

> COMMODITY **GRADE** Per cent Copper 0.0050 Zinc 0.1500 Per cent

COMMENTS: 2.8 metre sample width. REFERENCE: Assessment Report 6371.

**CAPSULE GEOLOGY** 

The area is underlain by metasediments and metavolcanics of the Lower Paleozoic Upper Index Formation of the Lardeau Group. The rocks include north-dipping interbanded graphitic schist, chlorite schist, talc schist, quartz-mica schist, quartzite, and marble.

The volcanic sequence is represented by a twenty metre thick section of quartz-talc-tremolite-garnet schist, forming an envelope around a core of chlorite rich schists which contain sulphide mineralization consisting of pumphetite with rich. sulphide mineralization consisting of pyrrhotite with minor

chalcopyrite. A drill hole (DH #1) intersected 0.005 per cent copper and 0.15

per cent zinc over 2.8 metres (Assessment Report 6371)

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6176, 6329, 6371, 7867, 11578, 15484

EMPR BULL 71, p. 28

EMPR EXPL 1976-E71,E72; 1977-99; 1983-165 GSC MAP 12-1964

GSC OF 637

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL Apr. 22, May 12, June 3,7, 1976; Jan. 6, Feb. 1, June 3, Sept. 26, 1977
WWW http://orphanboy.com/gstream.html

CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1987/07/20

MINFILE NUMBER: 082M 149

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 150

NAME(S): CARBIDE, FISSURE

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 32 00 N LONGITUDE: 118 38 14 W ELEVATION: 1950 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of mineralized zone, Assay plan (Assessment Reports 6229,

12092).

COMMODITIES: Zinc

I ead

Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Galena Calcite

Pyrite Dolomite Chalcopyrite

Tetrahedrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound

CLASSIFICATION: Replacement TYPE: E14 Sedir

Stratiform

Disseminated

Massive

NATIONAL MINERAL INVENTORY:

Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular

COMMENTS: Mineralized pods up to 2 by 10 metres along 1800 metre strike length.

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Cambrian

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5710407

EASTING: 386442

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LITHOLOGY: Marble

Quartzite Carbonatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Monashee

PHYSIOGRAPHIC AREA: Monashee Mountains

GRADE: Greenschist METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

YFAR: 1984

COMMODITY Silver

GRADE 55.2100

Grams per tonne

I ead 7inc

2.7000 5.0000 Per cent Per cent

COMMENTS: Average of 26 samples over average width of 0.7 metres.

REFERENCE: Assessment Report 12092.

CAPSULE GEOLOGY

The property lies within the Shuswap Metamorphic Complex along the northeastern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists, and locally intruded by carbonatite. The metasediments are flat gently dipping and are repeated across the closure of a major Phase 1 recumbent anticline which has its closure to the east.

Stratabound sulphide mineralization occurs within a fetid white marble unit on the upper limb of the anticline. The mar The marble unit ranges from 2 metres to 50 metres thick and grades into overlying calc-silicates. The upper part of the marble unit is mineralized over a strike length of 1800 metres by discrete elongate pods of sphalerite and galena, typically 0.7 to 2 metres wide and up to 10 metres long. Lesser amounts of tetrahedrite, pyrite and chalcopyrite also occur within the pods.

Twenty-six samples were taken along the 1800 metre strike length. Sample width ranged from 0.1 to 4.7 metres and averaged

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

0.7 metres. Assay results averaged 55.21 grams per tonne silver, 5.00 per cent zinc and 2.70 per cent lead.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6229, \*12092, \*15991 EMPR EXPL 1976-E70; 1977-E99; 1983-165

EMPR MAP 43

EMPR PF (Leask, G. (1984): Geology of the Carbide Carbonate-hosted Ag-Zn-Pb Deposit)

GSC MAP 12-1964 GSC OF 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/11/09 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 151

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5719355 EASTING: 318111

REPORT: RGEN0100

808

 $\mathsf{NAME}(\mathsf{S}) : \ \underbrace{ \ \mathsf{VAV} \ (\mathsf{NORTH})}_{\mathsf{ESP}}, \ \mathsf{CHI}, \ \mathsf{NICANEX} \ \mathsf{ZONE},$ 

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12E

BC MAP:

LATITUDE: 51 35 45 N LONGITUDE: 119 37 34 W

ELEVATION: 920 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Nicanex zone, Fig. 156-14 (Assessment Report 6933).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Molybdenite Magnetite

Sericite

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Chloritic Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated

CLASSIFICATION: Unknown

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**GRO**UP STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist Quartz Sericite Phyllite

Quartzite

Chlorite Muscovite Schist

Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

The area is underlain by an east-west striking, shallow to moderate dipping sequence of Devonian to Mississippian metasedimentary and metavolcanics rocks of the Eagle Bay Formation. Quartzite and chlorite-muscovite-quartz schist are overlain by sericite-quartz phyllite, quartz-chlorite-sericite schist and sericitic quartzite, which are overlain by dark grey phyllite. A thrust fault separates these rocks with calcareous chlorite schist and greenstone to the south.

Disseminated chalcopyrite, pyrite and minor molybdenite occur along foliation planes and on fractures within quartz-chlorite-sericite schists. The mineralized zone trends eastwest and measures 800 by 150 metres. Grab samples assayed 0.3 to 0.4 per cent copper (Assessment Report 6933). However,

mineralization is irregular and generally low grade.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2676, 2677, 2678, 5909, \*6933, 12465 EMPR EXPL 1976-72; 1978-113; 1983-167

EMPR FIELDWORK 1985, p. 93 EMPR GEM 1970-296

EMPR OF 1986-5; 1999-2 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/01/23 REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 152

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

TREND/PLUNGE: 270/20

NORTHING: 5718751 EASTING: 317705

REPORT: RGEN0100

809

NAME(S): <u>VAV (SOUTH)</u>, CHI, AFR ZONE, ESP

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M12E

BC MAP:

LATITUDE: 51 35 25 N LONGITUDE: 119 37 54 W

ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: AFR Zone, Fig. 156-14 (Assessment Report 6933).

Molybdenum COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Molybdenite

ASSOCIATED: Quartz ALTERATION: Sericite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Unknown Disseminated

TYPE: G06 Noranda/Kuroko SHAPE: Tabular DIMENSION: 1000 x 0150 x 0030 Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: Metres

COMMENTS: Sub-grade ore deposit.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Phyllite

Quartz Sericite Schist Quartzite

Greenstone

Chlorite Muscovite Quartz Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1978 Assay/analysis

CATEGORY: Assay/an SAMPLE TYPE: Drill Core

**GRADE** COMMODITY Per cent Copper 0.0940

COMMENTS: 19.8 metre sample interval.

REFERENCE: Assessment Report 7119.

**CAPSULE GEOLOGY** 

An east-west striking, shallow to moderate dipping sequence of metasediments and metavolcanics of the Devonian to Mississippian  $\,$ Eagle Bay Formation underlies the area. Quartzite and chlorite-muscovite-quartz schist are overlain by sericite-quartz phyllite, quartz-chlorite-sericite schist and sericite quartzite. These are overlain by dark grey phyllite, which are separated by a thrust fault, with calcareous chlorite schist and greenstone to the south.

The AFR zone trends westerly, plunges about 20 degrees and

consists of several mineralized outcrops in an area of 1000 metres by 150 metres. Disseminated chalcopyrite, pyrite and minor molybdenite occur in silvery phyllite and slightly calcareous quartzchlorite-sericite schist. A 1.0 metre chip sample assayed 0.109 per cent copper (Assessment Report 13557) and a percussion hole drilled in the west part of the zone intersected .094 per cent copper over 19.8 metres (Assessment Report 7119). A hole 170 metres to the west intersected 0.036 per cent copper over 39.6 metres and 0.004 per cent molybdenum over 12.2 metres (Assessment Report 7119).

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 2676, 2677, 2678, 5909, \*6933, 7119, 12465, 13557 EMPR EXPL 1976-72; 1978-113; 1983-167; 1985-108-109 EMPR FIELDWORK 1985, p. 93 EMPR GEM 1970-296 EMPR OF 1999-2 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/01/23 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 152

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 153

NATIONAL MINERAL INVENTORY:

NAME(S): BLAIS

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

811

LATITUDE: 51 30 30 N

NORTHING: 5707903 EASTING: 374622

MINING DIVISION: Kamloops

LONGITUDE: 118 48 24 W ELEVATION: 1490 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Figure 2, (Assessment Report 7602).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated

CLASSIFICATION: Replacement

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate

Marble **Garnet Gneiss Biotite Gneiss** Quartzite Pelitic Schist

Carbonatite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The property lies within the Shuswap Metamorphic Complex along the northwestern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists, and locally intruded by carbonatite.

The mineralized zone occurs on the lower (eastern) limb of a northeast trending part of the Grace Mountain syncline - a tight isoclinal fold. Disseminated galena, 15 centimetres thick and about 20 metres in length, occurs in limestone bounded by grey banded garnet biotite gneiss and muscovite biotite gneiss.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7602 EMPR BULL \*80, p. 84 EMPR MAP 43 GSC MAP 12-1964 GSC OF 637 EMPR OF 2000-22

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/03/25 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 154

NATIONAL MINERAL INVENTORY:

NAME(S): **RED**, FIR, DON, PAT, JOE, SILVER LICHEN

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082M03W

BC MAP:

LATITUDE: 51 05 20 N LONGITUDE: 119 23 44 W

ELEVATION: 1650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Geology map - Assessment Report 11253; Trench Drawing 2 - Assessment

Report 13760.

COMMODITIES: Lead

Zinc

Silver

Manganese

Gold

PAGE:

REPORT: RGEN0100

812

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Pyrite

Tetrahedrite

Magnetite

Argentite

ASSOCIATED: Quartz

Psilomelane

COMMENTS: Manganese oxides, psilomelane.

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwo....
CLASSIFICATION: Volcanogenic Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

Disseminated Industrial Min. Massive

SHAPE: Cylindrical MODIFIER: Folded

DIMENSION:

COMMENTS: Attitude of host rocks.

STRIKE/DIP: 060/30N

TREND/PLUNGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5662439 EASTING: 332236

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic

GROUP Undefined Group

**FORMATION Eagle Bay** 

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Limestone Chlorite Schist Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Greenschist

INVENTORY

ORE ZONE: STOCKWORK

REPORT ON: N

YEAR: 1984

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

Per cent

COMMODITY

700.0000 0.6000 10.4000

3.5300

Grams per tonne Grams per tonne Per cent

Lead

Zinc COMMENTS: The sample was taken over 1.7 metres.

REFERENCE: Bachelor, D. (1984).

Silver

Gold

CAPSULE GEOLOGY

The property is underlain by sediments and volcanics of the Eagle Bay Formation of Devonian-Mississippian age.

**GRADE** 

The dominant structural trend in the area is 060 degrees with moderate (25-30 degree) dips to the northwest.

Phyllitic sediments intercalated with dolomitized and silicified carbonates are overlain by a highly pyritic chlorite schist. Separating the two units is a thin  $(0.5\ \text{metre})$  conform-

able calc-silicate alteration zone.

Cutting the phyllitic sediments is a 6 by 9 metre, north-trending, quartz stockwork containing disseminations and irregular pods of galena, sphalerite and pyrite. The stockwork has a sooty black exposed surface. A 1.7 metre chip sample assayed 700 grams

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

per tonne silver, 10.4 per cent lead, 3.53 per cent zinc and 0.6 grams per tonne gold (Bachelor, 1984).

### **BIBLIOGRAPHY**

EMPR ASS RPT \*6388, \*7371, \*8348, \*11253, \*12848, \*13760, 14126 EMPR EXPL 1976-59; 1977-87; \*1978-102; \*1979-108; 1982-108; 1984-111,112; 1985-C97 GSC MAP 48-1963 GSC OF 637 Bachelor, D. (1984): Orell Resources Joint Venturing with Noranda at Adams Plateau; IPDM v. 7, No. 2, March/April 1984, GCNL Apr. 15, Nov. 4, 1980; Oct. 21, 1982; June 14, 1983; Feb. 15, 1985 N MINER July 5, 1984

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 154

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 155

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5706041 EASTING: 374962

REPORT: RGEN0100

814

NAME(S): **SEYMOUR** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M07W BC MAP:

LATITUDE: 51 29 30 N LONGITUDE: 118 48 04 W ELEVATION: 1780 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Calcite Galena Sphalerite Magnetite

Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Replacement

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

DIMENSION: STRIKE/DIP: 045/24N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate

Marble **Garnet Gneiss Biotite Gneiss** Quartzite Calcareous Schist Pelitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1978 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY **GRADE** Per cent I ead 16.1000 Per cent 0.8000

Zinc COMMENTS: 2 metre sample. REFERENCE: Bulletin 80, page 83.

**CAPSULE GEOLOGY** 

The property lies within the Shuswap Metamorphic Complex along the northwestern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age. The dome is mantled by unconformably

overlying metasedimentary rocks consisting of quartzites, calcareous schists, marbles and pelitic schists.

The mineralized zone occurs on the lower (eastern) limb of a northeast trending part of the Grace Mountain syncline - a tight isoclinal fold. Chalcopyrite and coarse-grained galena occur in a 10 centimetre quartz layer within marble for a 30 metre length. A galena-rich section, 2 metres long assayed 16.1 per cent lead and 0.8 per cent zinc (Bulletin 80). The carbonate unit is bounded by grey banded garnet-biotite gneiss and muscovite biotite gneiss. Several small occurrences occur over an 800 metre strike length

and a minor occurrence lies 1700 metres to the west.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7602

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL \*80, pp. 83-84 EMPR EXPL 1977-94 EMPR MAP 43 GSC MAP 12-1964 GSC OF 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/24 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 155

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REPORT: RGEN0100

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 156

NATIONAL MINERAL INVENTORY:

Silver

NAME(S): RUGER, SORCERER CREEK, RAIN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

816

LATITUDE: 51 29 10 N NORTHING: 5704562 EASTING: 416989

LONGITUDE: 118 11 44 W ELEVATION: 670 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Skarn, Drawing 2 - (Assessment Report 8591).

COMMODITIES: Tungsten Lead Copper

**MINERALS** 

SIGNIFICANT: Scheelite Pyrrhotite

Molybdenum

Chalcopyrite

Molybdenite

Pyrite

ASSOCIATED: Quartz

Magnetite

Calcite

Garnet

Pyroxene

Pyroxene

ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement

W skarn

Skarn

Disseminated

Massive

G04 Besshi massive sulphide Cu-Zn

TYPE: K05 SHAPE: Tabular MODIFIER: Faulted

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian

**GROUP** Lardeau **FORMATION** Index

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

Middle Jurassic

LITHOLOGY: Phyllite

Limestone Chert Granodiorite Quartz Monzonite

Skarn

HOSTROCK COMMENTS:

Probably lower Paleozoic metasediments of Lardeau Group.

Probably mid-Jurassic pluton (Bigmouth Creek Stock).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Contact

**RELATIONSHIP:** 

GRADE:

**CAPSULE GEOLOGY** 

The property is underlain by probable Lower Paleozoic Lardeau Group phyllites and limestones. A probable Mid-Jurassic pluton of monzonite to granodiorite intrudes the metasediments, developing a mineralized skarn.

Skarn mineralization consists of garnets, pyroxene, calcite, magnetite, pyrite, pyrrhotite, molybdenite and scheelite. Mineralization also occurs in pods or fault gouge zones cutting and paralleling the limestone bedding. A fault parallels Downie Creek.

Soil geochemistry performed over the property has outlined anomalous zones of tungsten, copper, lead, silver, and molybdenum (Assessment Report 8591).

Imperial Metals Corporation optioned the Rain property from Keystone Resources in 1995. In 1996, Select Ventures Inc. drilled 3 holes totalling 900 metres on this apparent Besshi-type massive sulphide target.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6306, \*8591, 22738, 24221 EMPR EXPL 1977-96,97; 1980-142; 1996-D5

EMPR OF 1991-17; 1999-2 GSC MAP 12-1964 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/06 CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 157

NATIONAL MINERAL INVENTORY:

NAME(S): **PAT 1300** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

NTS MAP: 082M09W BC MAP:

PAGE:

REPORT: RGEN0100

817

LATITUDE: 51 35 00 N

NORTHING: 5715527 EASTING: 408313

LONGITUDE: 118 19 24 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Skarn sample location, drawing 1 (Assessment Report 6188).

COMMODITIES: Zinc. Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Garnet Pyrite Sphalerite Epidote Dolomite

ALTERATION: Garnet **Epidote** Skarn

ALTERATION TYPE: MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement TYPE: K01 Cu sk Skarn

KN2 Cu skarn Pb-Zn skarn

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Lardeau Index

Triassic Unnamed/Unknown Informal

LITHOLOGY: Meta Sediment/Sedimentary

Skarn Quartz Monzonite Hornfels Granitic Intrusive

HOSTROCK COMMENTS: Probably Index Fm.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1976 Assav/analysis

CATEGORY: Assay/as SAMPLE TYPE: Channel

**GRADE** COMMODITY Silver 0.6900 Grams per tonne

Copper Per cent 0.0200 Per cent Zinc 0.0200

REFERENCE: Assessment Report 6188.

CAPSULE GEOLOGY

The Pat 1300 claim is partially underlain by a complexly deformed sequence of metasedimentary lithologies tentatively assigned to the Lower Paleozoic Lardeau Group. Granitic injections in the form of small stocks, dykes and sills cut the metasediments and appear to represent part of the complex northern contact zone of a large Triassic (?) aged intrusive body exposed further to the south and southeast. Thermal metamorphism at the margins of the intrusive has altered the host rocks to swirled contact gneiss, hornfels and skarn.

Sulphide mineralization consists of pyrite and pyrrhotite, with occasional sphalerite, within garnet-epidote-dolomite skarns. Skarns are locally developed within dominantly calcareous host rocks near intrusive contacts. A channel sample assayed 0.02 per cent copper, 0.02 per cent zinc and 0.69 grams per tonne silver.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6188

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 71
EMPR EXPL 1976-E69; 1977-E97
EMPR MAP 25
GSC MAP 12-1964
GSC OF 637
EG, V. 79, No. 5, pp. 789-814 (Hoy, T., Gibson, G., and Berg, N.W. 1984)

CODED BY: GSB REVISED BY: LDJ

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/26 FIELD CHECK: N

MINFILE NUMBER: 082M 157

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 158

NATIONAL MINERAL INVENTORY: 082M12 Mn1

NAME(S): **SMUGGLER MANGANESE**, REXSPAR

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M12W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

819

LATITUDE: 51 34 15 N

NORTHING: 5717296 EASTING: 298958

LONGITUDE: 119 54 04 W ELEVATION: 1070 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trench over bog manganese, Geology map by Gandhi (Property File).

COMMODITIES: Manganese

**MINERALS** 

SIGNIFICANT: Wad ASSOCIATED: Pyrite Manganite

Calcite Quartz

ALTERATION: Limonite COMMENTS: Manganese oxides.
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

TYPE: B07 Bog Fe, Mn, U, Cu, Au

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Feldspar Porphyry

Quartz Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1929 Assav/analysis SAMPLE TYPE: Rock

COMMODITY GRADE

Manganese 53.0000 Per cent

REFERENCE: Annual Report 1929, page 224.

**CAPSULE GEOLOGY** 

A trachytic unit of alkali-feldspar porphyry, lithic tuff, tuff breccia and pyritic schist is structurally underlain by quartz-sericite schist, chlorite schist and interlayered meta-sediments of the Devonian to Mississippian Eagle Bay Formation.

A surficial deposit of bog manganese (wad) occurs as a subsoil deposit, of variable grade and thickness (up to 3 metres) over a 1200 metre northwest trend. The material is very heterogeneous, comprising mainly rock fragments in a light to dark brown earthy ground mass consisting largely of limonite with small localized patches of wad. Assays up to 53 per cent manganese

are reported (Annual Report 1929-224).

Higher on the hillside occurs a zone of altered rock

mineralized with pyrite and siderite with minor mangano-siderite associated with calcite and quartz. Rocks of this type may have

been the source of the manganese oxides.

**BIBLIOGRAPHY** EMPR AR \*1929-224; 1930-193; 1931-107; 1949-251

EMPR ASS RPT 1737, 1912, 1913, 2337-2340, 4032, 10207, 10934 EMPR EXPL 1982-122-123

EMPR PF (Maps by P. Pisani, 1970 and S.S. Gandhi, 197? in

Rexspar File)

EMR MP CORPFILE (Rexspar Uranium & Metals Mining Co. Limited -Annual Report, 1957)

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC EC GEOL \*Series No. 12, 1932, p. 114 GSC MAP 48-1963 GSC OF 637 GSC SUM RPT \*1930-147-148 CANMET IR 58-53

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1987/01/16 FIELD CHECK: N

MINFILE NUMBER: 082M 158

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 159

NATIONAL MINERAL INVENTORY:

NAME(S): **CW**, WATER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

821

NTS MAP: 082M12W BC MAP: LATITUDE: 51 37 50 N

NORTHING: 5724192 EASTING: 292879

LONGITUDE: 119 59 34 W ELEVATION: 430 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone (Assessment Report 13559).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Kyanite ALTERATION: Sericite Silica

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Silicific'n Pyrite Argillic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular DIMENSION: 0100 x 0100

STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Mineralized horizon.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Dacite Tuff Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1985 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

**GRADE** COMMODITY

Silver 7.5000 Grams per tonne 2.2000 Gold Grams per tonne Copper 0.1270 Per cent

COMMENTS: The sample was taken over 1 metre of width.

REFERENCE: Assessment Report 13559.

CAPSULE GEOLOGY

A stratabound siliceous and pyritic horizon, thought to be an exhalite, occurs within yellowish-white quartz sericite schist derived from rhyolitic to trachytic tuffs of the Devonian to Mississippian Eagle Bay Formation. These felsic volcanic rocks grade upward into a more intermediate rock or dacite and are underlain by argillites.

The siliceous horizon contains a 100 by 100 metre pyritic zone with minor disseminated chalcopyrite. A 1.0 metre chip sample assayed 0.127 per cent copper, 2.2 grams per tonne gold, and 7.5 grams per tonne silver (Assessment Report 13559).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6862, \*7575, \*13559, 14485 EMPR EXPL 1977-101; 1978-115; 1979-116; 1985-C109-110; 1986-C123

EMPR FIELDWORK 1985, p. 93 EMPR OF 1986-5; 1999-2

EMPR PF (Map by Newmont Exploration of Canada Limited)

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

REPORT: RGEN0100

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**BIBLIOGRAPHY** 

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 160

NATIONAL MINERAL INVENTORY:

NAME(S): SLIDE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

823

NTS MAP: 082M10E BC MAP:

NORTHING: 5708696 EASTING: 394116

UTM ZONE: 11 (NAD 83)

LATITUDE: 51 31 10 N LONGITUDE: 118 31 34 W ELEVATION: 707 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill Hole WS-1 and mineralized float Fig. 2 (Assessment Report 7602).

COMMODITIES: Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrrhotite **Pyrite** 

Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Massive

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** 

LITHOLOGY: Muscovite Schist

**Biotite Schist** Quartzite Calc-silicate Gneiss

Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the eastern margin of the Frenchman Cap Dome. The core of the dome is mantled by an unconformably overlying succession of metasedimentary rocks consisting of calc-silicate gneiss, quartzite, hornblende gneiss and marble.

Massive and disseminated galena, sphalerite, pyrrhotite and pyrite occur as small bands within muscovite schist adjacent to

biotite schist and marble.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7602

EMPR EXPL 1976-E70; 1977-E98

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637 Placer Dome File EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/19 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 161

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5701551 EASTING: 412307

REPORT: RGEN0100

824

NAME(S): SILVER SHIELD, SILVER BELL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M08W BC MAP:

LATITUDE: 51 27 30 N
LONGITUDE: 118 15 44 W
ELEVATION: 2100 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol - GSC Summary Report 1928, part A 189; Map 237A.

COMMODITIES: Lead 7inc

**MINERALS** 

Sphalerite

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: E14 Se

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **GROUP** IGNEOUS/METAMORPHIC/OTHER **FORMATION** Lardeau Index

LITHOLOGY: Limestone

Quartzite Phyllite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by quartzites, phyllites and schists of the probable Lower Paleozoic Lardeau Group and inliers of Badshot limestone. Showings of lead-zinc ore were reported by Gunning (1929).

**BIBLIOGRAPHY** 

EMPR AR 1900-809 EMPR BULL 71 EMPR EXPL 1982-117 GSC MAP 12-1964; 237A GSC OF 637

GSC SUM RPT 1928, part A, p. 189

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/03/13 FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 162

NATIONAL MINERAL INVENTORY: 082M11 Be1

PAGE:

REPORT: RGEN0100

825

NAME(S): **BISCHOFF LAKES** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M11E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5718511 EASTING: 359100 LATITUDE: 51 36 00 N

LONGITUDE: 119 02 04 W ELEVATION: 2100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description, GSC Economic Geology Series #23, pp. 59-60.

COMMODITIES: Beryllium

**MINERALS** 

SIGNIFICANT: Vesuvianite ASSOCIATED: Garnet

**Epidote** ALTERATION: Garnet Epidote

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Skarn Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Shuswap Metamorphic Complex

LITHOLOGY: Limestone

Pegmatitic Muscovite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Beryllium vesuvianite, which contains about 0.02 to 0.05 per cent beryllium, occurs as coarse crystalline masses with garnet and epidote in skarn at the contact between crystalline limestone of the Shuswap Metamorphic Complex and pegmatitic

muscovite granite.

**BIBLIOGRAPHY** 

GSC EG \*1968, No. 23, pp. 59-60

GSC MAP 48-1963 GSC OF 637 GSC P \*65-1, p. 152

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/05/28 REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 163

NAME(S): AVOLA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M14W BC MAP:

LATITUDE: 51 46 20 N

LONGITUDE: 119 19 44 W ELEVATION: 900 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: EMR.

COMMODITIES: Nickel

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

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LITHOLOGY: Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Barkerville METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

NATIONAL MINERAL INVENTORY: 082M14 Ni1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5738271 EASTING: 339321

**RELATIONSHIP:** 

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1955

CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Nickel

**GRADE** 0.4300 Per cent

REFERENCE: EMR MP Corpfile, Resource File, 1955.

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex.

Assays of 9 samples taken in 1955 ranged from 0.12 to 0.43

per cent nickel.

**BIBLIOGRAPHY** 

EMR MP CORPFILE, Resource File: MR-Ni-301:00 (British Columbia)-

Letter from R.F. McLeod (1955) GSC MAP 48-1963

GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30

CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 164

NATIONAL MINERAL INVENTORY:

NAME(S): MIKE, MARGE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 082M03W BC MAP:

NORTHING: 5660303 EASTING: 331388

LATITUDE: 51 04 10 N LONGITUDE: 119 24 24 W ELEVATION: 1650 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Claims (Assessment Report 7371).

COMMODITIES: Silver 7inc I ead Manganese Iron

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Cerussite Pyrolusite `Argentite

Arsenopyrite ASSOCIATED: Quartz Epidote

Chlorite

Calcite

Mica

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant

CLASSIFICATION: Replacement TYPE: E14 Sedir Industrial Min. Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Limestone

Schist Phyllite Greenstone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by rocks of the Cambrian to Ordovician part of the Eagle Bay Formation consisting of limestone, argillaceous limestone, greenstone schist, quartz sericite schist, quartz-

ite and phyllite.

Replacement zones of mineralization occur within the metavolcanics and metasediments. The minerals include sphalerite, galena, pyrrhotite, arsenopyrite, chalcopyrite, tetrahedrite and argentite with minor quartz, epidote, chlorite, calcite and mica.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2776, 6388, 7371, 8348, 13760, 14126 EMPR EXPL 1978-102; 1979-108; 1982-108; 1984-111,112; 1985-C97 EMPR GEM \*1970-318

GSC MAP 48-1963 GSC OF 637 EMPR OF 2000-22

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 165

NATIONAL MINERAL INVENTORY:

NAME(S): COLUMBIA RIVER

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

828

NORTHING: 5665319 EASTING: 417128

LATITUDE: 51 08 00 N
LONGITUDE: 118 11 04 W
ELEVATION: 750 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Near Ford River? Symbol on figure 1 - Bulletin 30-53.

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R02 Expanding shale Industrial Min.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The clay is a grey, plastic laminated sandy clay.

**BIBLIOGRAPHY** 

EMPR BULL \*30, p. 53, Fig. 1 GSC MAP 12-1964 GSC MEM 47, pp. 49-50

GSC OF 637

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1986/03/12 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 166

NATIONAL MINERAL INVENTORY:

NAME(S): **STANDARD** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M08E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

829

NORTHING: 5692890 EASTING: 412835

LATITUDE: 51 22 50 N LONGITUDE: 118 15 09 W ELEVATION: 2180 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits, GSC Summary Report 1928, Part A, 165, 193, Figure 8.

COMMODITIES: Asbestos Thallium Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Pyrrhotite Chrysotile Sphalerite Calcite

ALTERATION: Serpentine Talc

ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Replacement Industrial Min.

TYPE: G04 Besshi massive sulphide Cu-Zn

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Cambrian **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Lardeau Index

LITHOLOGY: Greenstone

Limestone Chlorite Schist

HOSTROCK COMMENTS: Probably correlative with lower Paleozoic Lardeau Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by probable Lower Paleozoic metasedimentary and metavolcanic rocks. The dominant structure is a north-south trending isoclinal antiform, plunging gently to

the north.

Small quantities of slip-fibre asbestos and larger amounts of pure, light green talc are exposed along shear zones in the greenstones of the west limb of the antiform. The talc also occurs with carbonates and serpentine along broad zones of alteration in the greenstone.

Mineralized lenses up to 1.5 metres wide contain pyrite, pyrrhotite, chalcopyrite, and minor sphalerite as fine-grained

mixtures.

**BIBLIOGRAPHY** 

EMPR ASS RPT 614, 6070 EMPR OF 1995-25; 1999-2

GSC MAP 12-1964 GSC OF 637

GSC SUM RPT \*1928, part A, pp. 165,193,Fig. 8

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1986/02/25 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 167

NAME(S): ORPHAN BOY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M09W BC MAP:

LATITUDE: 51 41 50 N LONGITUDE: 118 26 44 W ELEVATION: 1800 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of shaft, figure 6 (Assessment Report 11860).

Tungsten

COMMODITIES: Gold

**MINERALS** 

Pyrrhotite Gold Scheelite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: I01 Au

102 Intrusion-related Au pyrrhotite veins Au-quartz veins SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

**FORMATION** Upper Proterozoic Horsethief Creek Undefined Formation

LITHOLOGY: Pelitic Schist

Quartzite Phyllite

Calcareous Schist Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YFAR: 1984 Assay/analysis

**GRADE COMMODITY** 8.3700 Grams per tonne Cold

COMMENTS: The sample was taken from a 35 centimetre wide vein.

REFERENCE: Assessment Report 11860.

CAPSULE GEOLOGY

Underlying rocks types consist of metasedimentary rocks interlayered with mafic volcanic rocks. The metasediments consist of quartzites, schists, phyllites, calcareous schists and carbonates. The metavolcanics are tholeiltic flows and mafic tuffs metamorphosed to greenstone and chloritic phyllite. The rocks exposed are correlated to Hoy's (1979) Metavolcanic-Phyllite Division and Quartzite Schist Division of probable Lower Paleozoic Hamill Group and Upper Proterozoic Horsethief Creek Group (Assessment Report 11860).

Phase 2 and Phase 3 folds are developed in an inverted stratigraphic panel. Predominant schistosity is east to south-

east with dips commonly at 20 degrees east.

Two sets of quartz veins occur in the area. The commonly mineralized discordant veins strike 010 to 020 degrees and dip 70 to 85 degrees west. They range 0.15 to 4 metres in width. Barren veins, concordant with bedding, although with steeper dips, are up to 3 metres thick.

The mineralized veins consist essentially of milky quartz with pyrite, lesser pyrrhotite and gold. Scheelite occurs in some of the auriferous veins.

In the Orphan Boy shaft area several north-northeast quartz

MINFILE NUMBER: 082M 167

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5728352

EASTING: 400096

IGNEOUS/METAMORPHIC/OTHER

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## **CAPSULE GEOLOGY**

veins occur within pelitic schists. Quartz veins in the Orphan Boy adit area, 150 metres to the east, are closely associated with greenstones. A 35 centimetre sample of a vein in the shaft area gave 8.37 grams per tonne gold.

### **BIBLIOGRAPHY**

EM OF 1999-3
EMPR AR 1896-535; 1898-1059,1192; 1922-215; 1959-105,106
EMPR ASS RPT \*10393, \*11101, \*11860, \*13235
EMPR BULL 1, p. 119; 20, part II, p. 17
EMPR FIELDWORK 2000, pp. 231-252
EMPR OF 1991-17, 1999-3
EMPR PF (\*Newmarch, C.B. (1942): Ole Bull Tungsten)
GSC MAP 12-1964
GSC OF 637
GSC SUM RPT 1928, part A, pp. 154,155,158,159

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/03/12 REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 168

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5760686

EASTING: 406080

REPORT: RGEN0100

832

NAME(S): YELLOW CREEK, COLUMBIA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M16W BC MAP:

LATITUDE: 51 59 20 N LONGITUDE: 118 22 04 W ELEVATION: 2100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS:

COMMODITIES: Mica Beryllium Kyanite

**MINERALS** 

SIGNIFICANT: Mica ASSOCIATED: Quartz Beryl **Kyanite** Garnet Muscovite **Biotite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Pegmatite Industrial Min.

TYPE: O01 Rare element pegmatite - LCT family P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **FORMATION** GROUP Lardeau IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Mica Schist

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by probable Lardeau Group consisting

of mica-schist cut by quartz veins and pegmatites.

Mica is associated with the quartz veins and kyanite occurs in pegmatite dykes and the schists. Beryllium occurs in muscovite and biotite of pegmatites and in kyanite and garnet of schist.

**BIBLIOGRAPHY** 

EMPR AR 1912-K143; 1952-A258 GSC EC GEOL 23, p. 60 GSC MAP 12-1964

GSC OF 637 GSC P 66-1, p. 51

CANMET IR 285, pp. 42-49

Watson, K de P. (1947): American Mineralogist, v. 32, p. 94

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/13 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 169

NATIONAL MINERAL INVENTORY:

NAME(S): ADAM 10

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

PAGE:

REPORT: RGEN0100

833

LATITUDE: 51 03 10 N NORTHING: 5658858 EASTING: 319259

LONGITUDE: 119 34 44 W ELEVATION: 1700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, Drawing No. 6 (Assessment Report 14277).

COMMODITIES: Zinc. Silver Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Greenstone

Phyllite Limestone Schist Porphyritic Dike Felsic Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1985 Assay/analysis

COMMODITY **GRADE** Silver 14.8000 Grams per tonne Copper 0.0500 Per cent 0.0500 Per cent Lead Per cent 7inc 6.5000

COMMENTS: The sample was taken over 3 centimetres of width. REFERENCE: Assessment Report 14277.

CAPSULE GEOLOGY

The area is underlain by a Lower Cambrian part of the Eagle Bay Formation rocks consisting of greenstone schists, phyllites and quartz schists. A mafic felsic volcanic contact trends north eastward across the area and is truncated to the east by a north-south fault. Rocks east of the fault consist of mixed greenstones, phyllites and limestone. The rocks are cut by north-south trending

quartz-feldspar porphyry dykes and plugs.

Lenses and disseminations of pyrite with traces of chalcopyrite, and minor stringers and fracture fillings of sphalerite occur in felsic volcanics. A 3.0 centimetre sample assayed 6.5 per cent zinc, 0.05 per cent lead, 0.05 per cent copper and 14.8

grams per tonne silver (Assessment Report 14277).

**BIBLIOGRAPHY** 

EMPR ASS RPT 46, 6513, 7693, \*14277

EMPR EXPL 1977-E89; 1978-E103; 1979-110; 1985-C98

EMPR MAP 56

EMPR OF 1999-2; 1999-14

GSC MAP 48-1963

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

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DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 169

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 170

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5676257 EASTING: 379664

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

835

NAME(S): FRENCHMANS CAP

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M02E 082M08W BC MAP:

LATITUDE: 51 13 30 N
LONGITUDE: 118 43 24 W
ELEVATION: 2150 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Preliminary Map 43.

COMMODITIES: Nepheline Syenite

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Magmatic TYPE: R13 Nep

Industrial Min.

Nepheline syenite

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic

LITHOLOGY: Nepheline Syeno Gneiss

Para Gneiss Ortho Gneiss Quartz

Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Monashee

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Monashee Mountains

**FORMATION** 

**RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The area lies along the western margin of the Frenchman Cap Dome.

The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an

unconformably overlying succession of metasediments locally intruded by a suite of nepheline syenite gneiss.

The nepheline syenite gneisses are grey weathering, medium to coarse-grained rocks, forming a concordant, north trending, west dipping body within the metasedimentary envelope of the Dome.

**BIBLIOGRAPHY** 

EMPR MAP 43

EMPR OF 1991-10 GSC BULL 239, p. 173

GSC MAP 12-1964 GSC OF 637; 2447

GSC P 64-32

CJES Vo. 11, 1974, p. 304

GAC Spec. Paper 6-87

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/18 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 171

NATIONAL MINERAL INVENTORY:

NAME(S): **BEWS CREEK** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

836

LATITUDE: 51 10 50 N LONGITUDE: 118 29 14 W ELEVATION: 1700 Metres

NORTHING: 5670955 EASTING: 396050

LOCATION ACCURACY: Within 500M COMMENTS: Confirm location.

COMMODITIES: Gemstones

**MINERALS** 

SIGNIFICANT: Biotite ASSOCIATED: Quartz Muscovite Tourmaline Feldspar

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Pegmatite Industrial Min.

Muscovite pegmatite
GEMS AND SEMI-PRECIOUS STONES (diamonds under N) TYPE: O03 O04 Feldspar-quartz pegmatite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Quartzite Marble Mica Schist **Granitic Gneiss** Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Monashee

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The area lies within the Shuswap Metamorphic Complex along the south margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is unconformably overlain by a succession of metasedimentary rocks, which are intruded by a porhyritic granite gneiss.

Blocky, medium to coarse-grained granitic rocks contain widely scattered lenses of granitic pegmatite. The lenses are a few metres thick and several metres long and consist of medium to coarse-grained quartz and potash, commonly in large intergrown crystals. Biotite, muscovite and rarely black tourmaline and brown garnet are present in crystals up to 4 centimetres across.

**BIBLIOGRAPHY** 

EMPR BULL \*57, pp. 20-21 EMPR MAP 43

GSC MAP 12-1964 GSC OF 637

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N DATE REVISED: 1986/03/14 FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 172

NATIONAL MINERAL INVENTORY:

NAME(S): SILVER CITY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01E BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

837

LATITUDE: 51 05 20 N

NORTHING: 5660396 EASTING: 415881

LONGITUDE: 118 12 04 W ELEVATION: 981 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond Drill Hole E-5, Figure 2 (Assessment Report 14270).

COMMODITIES: Silver Copper

**MINERALS** 

Pyrrhotite Chalcopyrite

SIGNIFICANT: Pyrite
ALTERATION: Chlorite
ALTERATION TYPE: Propylitic **Epidote** 

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated

CLASSIFICATION: Unknown SHAPE: Irregular

Sheared MODIFIER: Fractured

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Gneiss

Calc-silicate Gneiss

Quartzite Pegmatite Aplite Mylonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1985 Assay/analysis

CATEGORY: Assay/an SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Silver 13,4000 Grams per tonne

COMMENTS: 1.0 metre sample interval. REFERENCE: Assessment Report 14270.

CAPSULE GEOLOGY

A moderately eastward dipping and highly folded sequence of gneisses of the Shuswap Metamorphic Complex which mantles the Frenchman Cap Dome. The dominant rock type is a massive, white, muscovite and tourmaline-bearing quartzite which is overlain by an impure calc-silicate gneiss. Biotite rich gneisses lie above

and below the quartzite. Other rocks include intermediate to basic sills, and pegmatites and aplites.

The rocks lie several hundred metres beneath the gently east dipping Columbia River Fault zone. Mylonite and mylonitic

gneiss splay from the fault zone.

Minor sulphides consisting of pyrite, chalcopyrite and pyrrhotite lie within the mylonitic foliation and in steeply dipping, undeformed late fractures which cut the foliation. The mylonitic zones are chloritized, epidotized and carbonated, yielding a propylitic alteration assemblage which contrasts sharply with and overprints the high grade sillimanite zone regional metamorphism of the unaltered rocks (Assessment Report 14270).

Drill hole E-5 intersected a protoclastic biotite-muscovitequartz-feldspar gneiss with silver values averaging 13.4 grams

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

per tonne silver over 1 metre (Assessment Report 14270).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11765, \*14270 EMPR BULL 57 EMPR EXPL 1980-106,107 EMPR MAP 43

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637

DATE CODED: 1986/05/29 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1986/05/29 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 172

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 173

NATIONAL MINERAL INVENTORY:

NAME(S): TRIDENT MOUNTAIN

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M16E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

839

LATITUDE: 51 54 20 N NORTHING: 5751160 EASTING: 420811

Unnamed/Unknown Informal

LONGITUDE: 118 09 04 W ELEVATION: 2300 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Main stock (Geological Survey of Canada Map 12-1964 and Paper 64-32,

COMMODITIES: Nepheline Syenite Feldspar

**MINERALS** 

SIGNIFICANT: Nepheline Microcline Albite ASSOCIATED: Biotite Ilmenite Sodalite Cancrinite Calcite Sphene Pyrochlore

Apatite COMMENTS: Also zircon.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Concordant CLASSIFICATION: Magmatic Industrial Min.

TYPE: R13 Nepheline syenite DIMENSION: 3000 x 700 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **GROUP** Undefined Formation

Horsethief Creek Hadrynian

Devonian-Mississipp. ISOTOPIC AGE: 380 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Nepheline Syenite

Gneiss Pelitic Schist Psammitic Schist

HOSTROCK COMMENTS: Dating age from Open File 1987-17.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: TRIDENT MOUNTAIN REPORT ON: Y

> CATEGORY: QUANTITY: YEAR: 1989 Inferred 330750000 Tonnes

COMMODITY **GRADE** 100.0000 Per cent

Nepheline Syenite COMMENTS: Reserves estimated to a depth of 75 metres. REFERENCE: F. Reyes, personal communication, 1991.

CAPSULE GEOLOGY

Nepheline syenite gneiss occurs as a concordant lenticular mass at Trident Mountain, approximately 85 kilometres northeast of Revelstoke.

The area surrounding Trident Peak consists of a light coloured banded nepheline syenite body. The syenites were emplaced circa 380 Ma (uranium-lead isotope date from zircons, Open File 1991-10) and intrude psammatic and kyanite-bearing pelitic schists of the Hadrynian Horsethief Creek Group.

The nepheline syenite-gneiss occurs in the core of an undulating, recumbent nappe forming a lenticular body, diminishing in thickness to the northwest and southeast. The syenite gneisses are concordant with the host rocks. The rock is white to grey, medium (1 to 5 millimetres) to coarse-grained (greater than 5 millimetres) and consists of microcline, albite and nepheline with minor biotite ilmenite, sodalite, cancrinite, calcite, apatite, sphene, pyrochlore

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

and zircon (Open File 1987-17). The composition of three samples collected is:

> Major oxides Weight (per cent) 55.59 - 63.70 20.73 - 24.69 SiO2 A1203 Fe203 0.17 - 0.59 0.56 - 1.20 CaO 8.16 - 8.39 3.12 - 8.22 Na20 K20

A 20-kilogram sample, sent to CANMET, was crushed and passed through a magnetic separator with the following results:

Magnetic concentrate Nonmagnetic concentrate (Weight in per cent) -35 + 1001.3 19.8 -100 0.5

Analyses of the nonmagnetic concentrate are:

-35 + 100 mesh -100 meshMajor oxides -10 + 35 mesh (Weight in per cent) 58.0 56.6 A1203 16.8 17.3 18.5 0.07 0.03 Fe203 0.10 0.76 0.95 CaO 6.11 7.59 Na20 5.79 5.63 K20 8.05 8.31

Processing results indicate that the nepheline syenite is low in magnetic impurities, has a high recovery rate of nonmagnetic materials and has, therefore, a very good potential to produce commercial grade nepheline syenite. Processing indicates a product brightness of 85 per cent can be obtained.

Samples tested are comparable to nepheline syenite currently imported into western Canada from Ontario. Geological mapping by Pell (Open File 1987-17) has documented large lenticular bodies of nepheline syenite over a distance of 7 kilometres at Trident Mountain. This large body has excellent potential to contain nepheline syenite similar to the samples tested. The samples tested were from float located approximately two kilometres north of Trident Mountain peak. Preliminary processing data indicates that a product of 85 per cent brightness can be obtained (McVey. H, 1988, Mineral Development Agreement, Report 4).

At the mouth of Trident Creek, which drains the area, placer

uranium, thorium and niobium has been recorded (082M 077).

## **BIBLIOGRAPHY**

EMPR FIELDWORK 1985, p. 255; \*1988, p. 486 EMPR OF \*1987-17, pp. 48-50; 1991-10 EMPR PF (\*Russel, F.T. (1956): Report on #223 Prospecting 1956) GSC BULL \*239, pp. 179-180 GSC MAP 12-1964 GSC OF 637 GSC P 64-32, p. 14 McVey, H. (1988): A Study of Markets for British Columbia's Nepheline Syenite and Feldspathic Minerals, MDA Report 4, B.C. Ministry of Energy, Mines and Petroleum Resources p.46 Perkins, M.J. (1983): Structural Geology and Stratigraphy of the Northern Big Bend of the Columbia River, Selkirk Mountains, unpublished Ph.D. Thesis, Carleton University

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 173

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 174

NATIONAL MINERAL INVENTORY:

NAME(S): COLUMBIA RIVER

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M08E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

NORTHING: 5680184 EASTING: 415041

PAGE:

REPORT: RGEN0100

841

LATITUDE: 51 16 00 N
LONGITUDE: 118 13 04 W
ELEVATION: 800 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Confirm location and references.

COMMODITIES: Andalusite

**MINERALS** 

SIGNIFICANT: Mica MINERALIZATION AGE: Unknown Quartz Amphibole Andalusite

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Industrial Min.
TYPE: P01 Andalusite hornfels

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic GROUP Lardeau **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Lardeau

LITHOLOGY: Andalusite Schist

Mica Schist Quartzite Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by probable Lower Paleozoic Lardeau

Group metasediments and metavolcanics.

The showing occurs as andalusite schists within argillaceous mica schists, quartzites and chlorite schists. The metasediments

strike northwest and dip at low angles to the east.

**BIBLIOGRAPHY** 

GSC MAP 12-1964 GSC OF 637

GSC P 64-32

GSC SUM RPT 1928A, p. 143

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1986/03/14 FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 175

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5756584

EASTING: 430061

PAGE:

REPORT: RGEN0100

842

NAME(S): KINBASKET LAKE, RUBY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M16E BC MAP:

LATITUDE: 51 57 20 N

LONGITUDE: 118 01 04 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Area 1, Figure 4 (Open File 1988-26).

COMMODITIES: Garnet Mica Kyanite

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Quartz **Kyanite** Mica

MINERALIZATION AGE: Lower Cambrian

**DEPOSIT** 

CHARACTER: Vein Stratabound Disseminated Lavered

CLASSIFICATION: Metamorphic Pegmatite Industrial Min. TYPE: P02 Kyanite-sillimanite schists SHAPE: Tabular

MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER

Horsethief Creek Hadrynian Unnamed/Unknown Formation Lower Cambrian Unnamed/Unknown Informal

LITHOLOGY: Garnet Schist

Quartz Kyanite Pegmatite Quartz Kyanite Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Big Bend (Mica Creek) - McNaughton Lake area, located approximately 100 kilometres to the north and northeast of Revelstoke, is underlain by Hadrynian Horsethief Creek Group and Lower Cambrian strata. In the Kinbasket Mountain - Sullivan River

area schists of probable Lower Cambrian age contain up to 50 per cent garnet and locally, abundant kyanite associated with large quartz veins and pegmatites (Eichelberger, 1953). Mica is also

present.

**BIBLIOGRAPHY** 

EMPR AR 1921-G164

EMPR OF 1988-26, p. 11

EMPR PF (Eichelberger, F. (1953): \*Report on Kyanite Deposits - Kinbasket Lake, British Columbia; unpublished Report for Yellow

Creek Mica Ltd., 5 pages)

GSC MAP 12-1964 GSC OF 637

DATE CODED: 1985/07/24 DATE REVISED: 1990/01/04 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 176

NATIONAL MINERAL INVENTORY:

NAME(S): **SEYMOUR** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M10W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

843

LATITUDE: 51 34 30 N LONGITUDE: 118 51 34 W ELEVATION: 1500 Metres

NORTHING: 5715408 EASTING: 371148

LOCATION ACCURACY: Within 5 KM COMMENTS: From description, GSC Paper 64-32, p. 5.

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

Sillimanite

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Quartzite **Amphibolite** Sillimanite Gneiss **Biotite Gneiss** 

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the northwest margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss

succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks. The metasediments comprise calc-silicate gneiss, sillimanite/kyanite

schist, biotite gneiss quartzite and amphibolite.

Kyanite is well developed around a big west trending fold between Seymour River and Kirbyville Creek where considerable areas of amphibolite and amphibolite gneiss are intimately

associated with quartzite.

**BIBLIOGRAPHY** 

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637

GSC P 64-32, p. 5

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/14 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 177

NATIONAL MINERAL INVENTORY:

NAME(S): **DEATH RAPIDS**, PRIEST RAPIDS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M10E 082M07E 082M08W BC MAP:

LATITUDE: 51 30 00 N
LONGITUDE: 118 30 34 W
ELEVATION: 750 Metres
LOCATION ACCURACY: Within 5 KM COMMENTS: Downie Slide area.

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Quartz MINERALIZATION AGE: Mesozoic

**DEPOSIT** 

SIT
CHARACTER: Vein
CLASSIFICATION: Pegmatite
TYPE: P02 Ky
SHAPE: Irregular

Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP

Proterozoic

**FORMATION** 

Industrial Min.

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5706509 EASTING: 395228

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

844

LITHOLOGY: Pelitic Schist

Kyanite Quartz Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The showing is located within the Downie Slide on the west slope of the Columbia River valley. The slide mass is composed of pelitic and semipelitic schists that lie on the northeastern flank of the Frenchman Cap gneiss dome in the Shuswap Metamorphic

Complex.

Kyanite crystals occur in quartz veins and pegmatites and sections of the schists over a length of 300 metres along the river.

**BIBLIOGRAPHY** 

EMPR AR \*1931-148,149; 1933-211; \*1947-215; 1952-A258

EMPR MAP 43

EMPR OF 1988-26, p. 12, Fig. 4

GSC MAP 12-1964 GSC OF 637

GSC P 64-32; 84-13, p. 9
CANMET IR \*736, pp. 238-240
CJES v. 17, No. 6, pp. 698-709 (Brown, R.L., and Psutka, J.F.,

1980)

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11

CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 178

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5684938

EASTING: 408148

REPORT: RGEN0100

845

NAME(S): FRISBY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M08W BC MAP:

LATITUDE: 51 18 30 N LONGITUDE: 118 19 04 W ELEVATION: 750 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS:

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Quartz

ASSOCIATED: Quartz Feldspar Mica Garnet

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Mica Schist

Calc-silicate Gneiss

Quartzite Marble

Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the eastern margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks. The metasediments are comprised of micaceous schist, hornblende gneiss, calc-silicate gneiss marble, quartzite, and impure marble.

The kyanite occurs within schists and gneisses containing

mica, quartz, feldspar and garnet. The greyish-blue flat crystals, are up to 8 centimetres long, and compose up to 20 per cent of the

rock.

**BIBLIOGRAPHY** 

EMPR AR 1952-A258 EMPR MAP 43 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1986/03/14 REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 179

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5708105 EASTING: 379063

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

REPORT: RGEN0100

846

NAME(S): BLAIS CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 30 40 N LONGITUDE: 118 44 34 W ELEVATION: 1700 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS:

COMMODITIES: Sillimanite

**MINERALS** 

SIGNIFICANT: Sillimanite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic

LITHOLOGY: Calc-silicate Gneiss

Quartzite

Hornblende Gneiss

Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

**FORMATION** 

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the northwest margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks. The metasediments consist of calc-siliate gneiss, quartzite, hornblende gneiss and marble.

Sillimanite occurs within the metasediments at the head of

Blais Creek.

**BIBLIOGRAPHY** 

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637

GSC P 64-32, p. 5; 78-1A, pp. 81,82

FIELD CHECK: N DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: LDJ DATE REVISED: 1986/03/17 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 180

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5742652 EASTING: 395975

REPORT: RGEN0100

847

NAME(S): BIG BEND

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M15E BC MAP:

LATITUDE: 51 49 30 N
LONGITUDE: 118 30 34 W
ELEVATION: 800 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description, Annual Report 1901, p. 1012.

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Industrial Min.

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic **GROUP** 

**FORMATION** Undefined Formation Lardeau

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartz Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by probable Lower Paleozoic Lardeau

Group metasediments consisting of quartz-mica schist.

**BIBLIOGRAPHY** 

EMPR AR 1901-1012; 1910-K94 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

DATE CODED: 1985/07/24 DATE REVISED: 1986/03/14 CODED BY: GSB REVISED BY: LDJ

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 181

NATIONAL MINERAL INVENTORY:

NAME(S): **ADAMS LAKE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

848

NTS MAP: 082M04E BC MAP:

NORTHING: 5666205 EASTING: 312704

LATITUDE: 51 07 00 N LONGITUDE: 119 40 34 W ELEVATION: 500 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centred on limestone band (east shore of Adams Lake),

as shown on Map 56.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite

MINERALIZATION AGE: Lower Cambrian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Archaeocyathid

DEPOSIT

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary
TYPE: R09 Limestone Industrial Min.

SHAPE: Tabular

DIMENSION: STRIKE/DIP: 090/73N Metres TREND/PLUNGE:

COMMENTS: Limestone belt trends northwest for 22 kilometres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Lower Cambrian DATING METHOD: Fossil

MATERIAL DATED: Archaeocyathid

LITHOLOGY: Limestone Greenschist

HOSTROCK COMMENTS: Tshinakin Member.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

On the east side of North Barriere River 6 kilometres north of the confluence of the Barrier River. The limestone on the north side of the Baldy Batholith, outcropping just north and south of Vavenby on either sides of the North Thompson River. The unit is

commonly estimated to be up to several hundred metres thick.

The Tshinkan limestone is comprised prominently of light grey to white, massive, fine-grained limestone that is sometimes

interbedded with quartzite and pyllite. The unit is rarely dolomitic.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1978, pp. 31-37; \*1979, pp. 28-36; 1985, p. 92

EMPR MAP 56 GSC MAP 48-1963 GSC OF 637

GSC P 74-1A, pp. 25-30; 75-1A, pp. 27-28 CJES Vol. 13, pp. 44-53

DATE CODED: 1985/07/24 DATE REVISED: 1989/09/20 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 182

NAME(S): **VAVENBY** 

LATITUDE: 51 35 40 N LONGITUDE: 119 44 44 W ELEVATION: 825 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone band on hill top; an old quarry is located about 100 metres away (Open File 1986-5).

COMMODITIES: Limestone

SIGNIFICANT: Calcite

ASSOCIATED: Dolomite Quartz

MINERALIZATION AGE: Lower Cambrian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Archaeocyathid

Open Pit

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone

SHAPE: Tabular DIMENSION: 4000 x 200

Metres STRIKE/DIP: 130/74N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Lower Cambrian DATING METHOD: Fossil

MATERIAL DATED: Archaeocyathids

LITHOLOGY: Limestone

Calcareous Chlorite Schist Dolomitic Chlorite Schist

Greenstone

HOSTROCK COMMENTS: Limestone of the Tshinakin member.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: QUARRY REPORT ON: N

> CATEGORY: YEAR: 1944 Assay/analysis

SAMPLE TYPE: Grab

**COMMODITY** Per cent Limestone

COMMENTS: Grade given for CaO.

REFERENCE: CANMET Report 811, page 217, Sample 95.

CAPSULE GEOLOGY

The Vavenby occurrence is located 1 to 5 kilometres northwest of Vavenby, on the north side of the North Thompson River. Limestone was quarried at this location until 1933.

A band of Lower Cambrian limestone of the Tshinakin member of A band of Lower Cambrian limestone of the Tshinakin member of the Eagle Bay Formation extends northwest of Vavenby for 4 kilometres, forming a small steep sided mountain known locally as "Lime Bluff". The limestone is estimated to be up to several hundred metres thick. The unit lies enclosed in calcareous chlorite schist and greenstone derived from mafic volcanics. The unit continues southeastward crossing the North Thompson River.

The deposit is comprised mostly of sugary textured, pale blue to nearly white, massive, high calcium limestone that tends to break into small angular fragments. The eastern most knob of the mountain exposes pale blue, brown weathering dolomite with irregular masses and veins of quartz. A representative sample of limestone from a quarry contained 54.95 per cent CaO, 0.30 per cent MgO, 0.68 per cent SiO2, 0.18 per cent Al2O3, 0.14 per cent Fe2O3 and 0.01 per cent

MINFILE NUMBER: 082M 182

PAGE: REPORT: RGEN0100

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5719504

EASTING: 309834

849

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M12E BC MAP:

**MINERALS** 

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

sulphur (CANMET Report 811, p. 217, Sample 95).
 A small quarry and lime kiln were operated by W. Elliot during
the early 1930's, but no production figures are available.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, p. 92

EMPR FIELDWORK 1905, p. 92 EMPR OF 1986-5 GSC MAP 48-1963 GSC OF 637 GSC P 75-1A, pp. 27-28 GSC SUM RPT 1930A, p. 153 CANMET RPT \*811, p. 217

DATE CODED: 1985/07/24 DATE REVISED: 1989/09/20 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 082M 182

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 183

NATIONAL MINERAL INVENTORY:

NAME(S): ONYX (MANSON) CREEK, MARJE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M03W

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

851

BC MAP:

NORTHING: 5656606 EASTING: 339707

LATITUDE: 51 02 19 N LONGITUDE: 119 17 11 W ELEVATION: 1646 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centred on limestone outcrop in headwaters of Onyx Creek,

as shown on GSC Map 48-1963.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Dolomite Quartz Graphite Pyrite

MINERALIZATION AGE: Lower Cambrian ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Archaeocyathid

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone

SHAPE: Tabular DIMENSION: 300 x 100 Metres STRIKE/DIP: 090/45N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Undefined Group Lower Cambrian DATING METHOD: Fossil

MATERIAL DATED: Archaeocyathid

LITHOLOGY: Limestone

Dolomite Phyllite Quartzite Diorite Lamprophyre

HOSTROCK COMMENTS: Host unit Tshinakin limestone member of Eagle Bay Formation.

**GEOLOGICAL SETTING** 

CAPSULE GEOLOGY

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

This occurrence is located on the southwest flank of Crowfoot

Mountain, 16 kilometres north of Maona Bay on Shuswap Lake.

Two limestone horizons of the Tshinikan Member of the Eagle Bay Formation outcrop in the headwaters of Onyx (Manson) Creek. The horizons are separated by 137 metres of interbedded phyllite and The two quartzite. The entire sequence is intruded by a few lamprophyric to dioritic dykes and sills. The beds generally strike 090 degrees and dip 45 degrees north. Archeocyathids found in a correlative carbonate unit near Vavenby to the north indicate a Lower Cambrian age (Geological Fieldwork 1985, page 92).

The upper horizon is comprised of approximately 46 metres of white to greyish white, white weathering, medium grained (1 to 2 millimetre) recrystallized dolomitic limestone that is cut by a network of opaque, white quartz veins near contacts with the enclosing host rocks. Some patches and seams of buff coloured argillaceous and siliceous rock occur within this horizon. Minor graphite is also present. Near the base of the unit the limestone is intruded by some porphyritic, lamprophyric dykes at least 1.5 metres wide. This limestone horizon outcrops over a 300 by 90 metres wide. metre area.

The lower 18 metre thick horizon contains fine grained, white weathering limestone with some pyrite. A variable magnesium and silica content is displayed up section and along strike.

The deposit was staked by Omar Paquette in 1973. Development work is limited to some trenching and diamond drilling.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, p. 92
EMPR PF (\*White, G. (1974): Preliminary Report, Marje Claims

1-4)
GSC MAP 48-1963
GSC OF 637
GSC P 75-1A, pp. 27-28; 74-1A, pp. 25-30
CJES Vol. 13, pp. 44-57

DATE CODED: 1985/07/24 DATE REVISED: 1989/09/20 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 082M 183

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 184

NATIONAL MINERAL INVENTORY:

NAME(S): HYDRO

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M14W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

853

LATITUDE: 51 51 30 N

NORTHING: 5747858 EASTING: 339244

LONGITUDE: 119 20 04 W ELEVATION: 1340 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Molybdenite showings, Figure 176-3 (Assessment Report 7127).

COMMODITIES: Copper Silver Tungsten Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite Scheelite Pyrite Molybdenite Pyrrhotite Powellite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Replacement TYPE: K01 Cu sk **Epigenetic** Skarn

Cu skarn SHAPE: Irregular

DIMENSION: 0400 x 0125 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Molybdenite zone of intermittent showings.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic IGNEOUS/METAMORPHIC/OTHER FORMATION Shuswap Metamorphic Complex

LITHOLOGY: Schist

Gneiss Hornfels Skarn Amphibolite Granitic Intrusive Andesite Dike Pegmatitic Dike Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1979 Assay/analysis

COMMODITY **GRADE** 

Silver 2.0000 Grams per tonne Per cent Copper 0.3400 Molybdenum 0.0940 Per cent Tungsten 0.0100 Per cent

COMMENTS: The sample was taken over 7 metres of width.

REFERENCE: Assessment Report 7127.

CAPSULE GEOLOGY

The property is underlain by the Shuswap Metamorphic Complex with granite intrusives. Foliation and schistosity is north-northwest with moderate to steep dips east and west. Pegmatites cut all rock types except a quartz monzonite. Andesite dykes cut all rocks.

The metamorphic rocks are divided into 3 units: feldspar-biotite gneiss; rusty weathering quartz sericite schist and minor amphibole; and a mixed sequence of quartzo feldspathic schists and gneisses, striped hornfels, and skarn and lesser amphibolite.

Several occurrences of chalcopyrite with pyrite and pyrrhotite occur within mixed bands of skarn, hornfels and amphibolite. A 12

RUN DATE: 26-Jun-2003 MINFILE MARKEN TIME: 08:48:46

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## **CAPSULE GEOLOGY**

metre wide zone, traced intermittently for about 30 metres on strike consists of disseminated chalcopyrite and disseminated to semi-massive pyrrhotite in skarn lenses. Molybdenite in quartz veins cuts these rocks. A 7 metre sample across the zone assayed 0.34 per cent copper, 0.094 per cent molybdenum, 0.01 per cent WO3, and 2 grams per tonne silver.

Three hundred metres to the south, a 400 by 125 metre, north west trending zone of several molybdenite showings occur within mixed, banded skarn and hornfels, cut by narrow quartz stringers. The molybdenite occurs as coarse flakes within the quartz veins and disseminated throughout the skarn.

The chalcopyrite is likely related to basic tuffs and calcareous sediments from which the amphibolite and skarn were derived. The molybdenite was likely introduced with late stage silica vein fillings.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*7127 EMPR EXPL 1978-E116,E117 EMPR OF 1991-17 GSC MAP 48-1963 GSC OF 637 GSC P 75-1A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 185

NATIONAL MINERAL INVENTORY:

NAME(S): RIM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 51 20 N

LONGITUDE: 119 44 49 W ELEVATION: 1700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description and map (Assessment Report 8355).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Biotite

Pyrrhotite

Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian

GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5748540 EASTING: 310832

REPORT: RGEN0100

855

Shuswap Metamorphic Complex

LITHOLOGY: Biotite Schist

Granodiorite

Quartz Feldspar Biotite Gneiss

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Barkerville METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by well foliated micaceous quartzfeldspar-biotite schist and gneiss of the Shuswap Metamorphic Complex. These rocks are intruded by or in fault contact with irregular bodies, dykes and sills of biotite-rich granodiorite.

Minor molybdenite mineralization occurs in well fractured micaceous schist in contact with the intrusive. Minor pyrrhotite

and pyrite are disseminated in the schists.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8355, 9199

EMPR EXPL 1980-145 GSC MAP 48-1963 GSC OF 290; 637 GSC P 75-1A

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 186

NATIONAL MINERAL INVENTORY:

NAME(S): FINN, HORSESHOE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M14W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

856

LATITUDE: 51 55 10 N LONGITUDE: 119 18 34 W ELEVATION: 850 Metres

NORTHING: 5754599 EASTING: 341181

MINING DIVISION: Kamloops

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Plate 2 (Assessment Report 7744).

COMMODITIES: Zinc I ead

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Pyrrhotite Galena

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: E14 Se

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Amphibolite Granodiorite Pegmatite **Biotite Gneiss** 

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

**RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1979 Assay/analysis SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent I ead 1.5000 7inc 18.8000 Per cent

COMMENTS: The sample was 1 metre wide. REFERENCE: Assessment Report 7744.

**CAPSULE GEOLOGY** 

The area is underlain by rocks of the Shuswap Metamorphic Complex. To the northeast are granodiorite, pegmatite and minor biotite gneiss. To the west are calc-silicate gneiss. biotite gneiss and minor amphibolite, which are cut by various pegmatites.

Mineralization consisting of galena and sphalerite occurs within calc-silicate gneiss. A one metre sample assayed 18.8 per cent zinc and 1.5 per cent lead. A nearby drill hole intersected minor pyrrhotite within pegmatite at 86 metres and

assayed 1.1 per cent zinc over 5 centimetres.

A second showing occurs 800 metres to the south. It is up to 3 metres wide and grades average 15 per cent zinc and 0.6 per cent lead.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7744, 9027, \*9032 EMPR EXPL 1979-119; 1980-147

GSC MAP 48-1963 GSC OF 290; 637 GSC P 75-1A

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 2000-22

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/05/08 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 186

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 187

NATIONAL MINERAL INVENTORY: 082M1 W1

NAME(S): **THANKSGIVING** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

858

LATITUDE: 51 12 40 N LONGITUDE: 118 11 59 W ELEVATION: 670 Metres LOCATION ACCURACY: Within 500M

NORTHING: 5673986 EASTING: 416200

Shuswap Metamorphic Complex

COMMENTS:

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite Pyrite Pyrrhotite M. COMMENTS: Pyrrhotite occurs in one of 3 mineralized zones Marcasite

ASSOCIATED: Calcite Quartz Feldspar Diopside Vesuvianite Garnet Sphene Clinozoisite

COMMENTS: Also includes hornblende and calcarenite.

ALTERATION: Diopside ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown Vesuvianite Garnet Sphene Clinozoisite

Pyrite Silicific'n Sericitic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Skarn Hydrothermal

TYPE: K05 W skarn SHAPE: Irregular MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP

Proterozoic-Cambrian

LITHOLOGY: Skarn

Calc-silicate Limestone

Quartz Biotite Schist

Argillaceous Sediment/Sedimentary

Diorite

Quartz Monzonite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Selkirk Mountains

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by three lithologies in tectonic contact. They are a lower quartz biotite schist unit, an intermediate unit comprising calc-silicates, silicified limestone, semipelites, argillaceous sediments and graphitic sediments, and an upper unit of quartz-augen gneisses. A zoned diorite-quartz monzonite stock is present in the southern part of the property, below a major thrust zone. A broad asymmetric antiformal structure involves the above three units.

The intermediate unit hosts the skarn/scheelite-pyrrhotite zone near the crest of the antiform. The skarn unit,  $\bar{3}$  to 10 metres wide, varies from silicified limestone to calc-silicates to the mineralized garnet-diopside skarn. The mineralization occurs as fine-grained, scattered coarse crystals and streaks of scheelite and pyrrhotite in irregular lenses parallel to bedding.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*10041, \*10091, 10099 EMPR FIELDWORK \*1981, p. 58

EMPR OF 1991-17

EMR MP CORPFILE (Andaurex Resources Inc., Northair Mines Ltd.)

GSC Map 12-1964; 4404G GSC OF 290; 637

GSC P 64-32

CIM Reporter, Sept. 28, 1981

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL #89,#159,#222, 1981; #86, 1982 W MINER Sept. 1981; March 1983 Wares, R. (1981): \*Preliminary Geology of the Thanksgiving Tungsten Project; CIM District 6 Meeting, Victoria, British Columbia, October 1981- Abstract in CIM Bull. Sept. 1981, p. 65, v. 74, no. 833

 DATE CODED:
 1985/07/24
 CODED BY:
 GSB
 FIELD CHECK:
 N

 DATE REVISED:
 1986/02/25
 REVISED BY:
 LDJ
 FIELD CHECK:
 N

MINFILE NUMBER: 082M 187

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 188

NATIONAL MINERAL INVENTORY:

NAME(S): **TM 1** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

860

LATITUDE: 51 48 30 N LONGITUDE: 119 47 29 W ELEVATION: 1180 Metres

NORTHING: 5743406 EASTING: 307570

LOCATION ACCURACY: Within 500M COMMENTS: Centre of zone, (Assessment Report 10405).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

Idocrase Garnet Wollastonite

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement W skarn

**Epigenetic** 

Hydrothermal

Skarn

TYPE: K05 SHAPE: Tabular

MODIFIER: Folded DIMENSION: 0120 x 0003

Metres

STRIKE/DIP: 050/30N

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Biotite Schist

Marble

Skarn

Quartz Biotite Gneiss

Miamatite Quartzite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville

PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Contact

Regional

RELATIONSHIP: Syn-mineralization

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/ar SAMPLE TYPE: Channel Assay/analysis

YEAR: 1982

COMMODITY

**GRADE** 

Tungsten

1.4400 Per cent

COMMENTS: A 1.0 metre sample width.

REFERENCE: Assessment Report 10405.

**CAPSULE GEOLOGY** 

The area is underlain by rocks of the Shuswap Metamorphic Complex consisting of quartz-biotite schists and gneisses, migmatite, quartzite, marble and skarn. The metasediments are intruded by sills and irregular bodies of granodiorite.

The general trend of the metasediments is northerly, dipping moderately to the west. However, locally the rocks are structurally complex due to folding and faulting.

Within the quartz-biotite schist is a 1 to 3 metre wide

scheelite bearing skarn which strikes in a north-easterly direction for 120 metres. The skarn consists of idocrase, garnet, wollastonfor 120 metres. The skarn consists of lacerase, garner, site and quartz. Tungsten content in surface channel samples ranges

up to  $1.\overline{44}$  per cent  $\overline{\text{WO3}}$  over 1 metre. The mineralization is similar to Gotcha (082M 123).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*10405 EMPR OF 1991-17 GSC MAP 48-1963

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 290; 637 GSC P 64-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 188

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 189

NATIONAL MINERAL INVENTORY:

NAME(S): TM 8

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M13W BC MAP: LATITUDE: 51 48 20 N

NORTHING: 5743242 EASTING: 303825

PAGE:

REPORT: RGEN0100

862

LONGITUDE: 119 50 44 W ELEVATION: 2060 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drilling area, (Assessment Report 9371).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Quartz Idocrase ALTERATION: Idocrase Garnet

Garnet Wollastonite Quartz Wollastonite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement TYPE: K05 W ska

**Epigenetic** Hydrothermal Skarn

W skarn STRIKE/DIP: DIMENSION: 0200 x 0004 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

TRATIGRAPHIC AGE Proterozoic-Cambrian

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Biotite Schist

GROUP

Marble Skarn Migmatite

Quartz Biotite Gneiss

Quartzite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Svn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by rocks of the Shuswap Metamorphic Complex consisting of quartz-biotite schists and gneisses, migmatite, quartzite, marble and skarn. The metasediments are intruded by sills and irregular bodies of granodiorite.

The general trend of the metasediments is northerly, dipping moderately to the west. However, locally the rocks are structurally complex due to folding and faulting.

Within the quartz-biotite schist are carbonate beds with a 4 metre wide scheelite bearing skarn which strikes in a north direction for 200 metres. The skarn consists of idocrase, garnet and quartz with scheelite concentrated in the garnet rich bands.

To the south the biotite schists become more calcareous with development of several narrow skarn zones over a 10 metre thickness. Skarn development diminishes, showing a transition from quartz-garnet-idocrase through garnet-wollastonite to wollastonite marble and marble with local development of large garnet porphyroblasts. Scheelite content also diminishes with decreasing development of skarn.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9371 EMPR OF 1991-17 GSC MAP 48-1963 GSC OF 290; 637 GSC P 64-32

DATE CODED: 1985/07/24 DATE REVISED: 1987/07/30 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 190

NTS MAP: 082M15E BC MAP:

LATITUDE: 51 52 30 N

LOCATION ACCURACY: Within 500M

COMMENTS: Drawing No. 4 (Assessment Report 9638).

COMMODITIES: Zinc. I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite

Arsenopyrite

Pyrrhotite

Galena

Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive

CLASSIFICATION: Sedimentary Syngenetic TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Folded

DIMENSION: 27 Metres

COMMENTS: Massive sulphide layer.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

Lower Cambrian Lardeau

LITHOLOGY: Pelitic Schist Calc-silicate Quartzite

Marble Serpentinite

Grit

Porphyritic Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

0.0300

6.9300

29.4700

YEAR: 1981

Per cent

Per cent

Per cent

Assay/analysis SAMPLE TYPE: Rock

<u>GRADE</u>

COMMODITY Copper Lead

CATEGORY:

Zinc

COMMENTS: A 0.8 metre sample width. REFERENCE: Assessment Report 9638.

CAPSULE GEOLOGY

The Rift occurrence is in isoclinally deformed metasedimentary and metavolcanic rocks of the Selkirk allochthon in the immediate hanging wall of the east dipping Columbia River fault zone. Underlying rocks are probable Lower Cambrian and younger Lardeau Group consisting of a lower grit sequence, a middle "pelite" sequence

and an upper carbonate sequence (Fieldwork, 1984).

A zinc-lead-(copper) sulphide layer is contained in a 400 metre

thick interval of the upper sequence of rocks consisting of pelitic schist, layered calc-silicate rocks, impure quartzite, marble and serpentinite that lie between marble units. Intrusive masses of potassium feldspar porphyritic quartz monzonite invade the

metasedimentary rocks as sills and dykes. Mineralization consists of a number of thin layers of massive sphalerite, pyrite, pyrrhotite, and galena and minor chalcopyrite and arsenopyrite exposed for about 25 metres of strike length.

MINFILE NUMBER: 082M 190

PAGE:

NATIONAL MINERAL INVENTORY: 082M15 Zn2

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5748308

EASTING: 391597

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

863 REPORT: RGEN0100

NAME(S): RIFT

STATUS: Prospect REGIONS: British Columbia

LONGITUDE: 118 34 29 W ELEVATION: 745 Metres

**FORMATION** 

**Undefined Formation** 

Disseminated

STRIKE/DIP:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

massive sulphide layer varies in thickness from 0 to 1.4 metres and is structurally underlain by a zone 0.3 to 1.6 metres thick of disseminated sulfides in a fine-grained dark siliceous gangue. Hanging wall rocks are more calcareous and sulphide content is generally lower.

The massive sulphides assayed 29.47 per cent zinc, 6.93 per cent lead, 0.03 per cent copper over 0.8 metres and the footwall disseminated sulphides assayed 2.39 per cent zinc, 0.39 per cent lead and 0.02 per cent copper (Assessment Report 9638).

A second massive sulphide zone (upper showing) is exposed approximately 90 metres stratigraphically above the main showing. Intervening rocks include calcareous schists and thin marble bands, overlain by more pelitic schists.

One hundred metres above the main sulphide layer is a pod-like, sheared ultramafic body, 15 metres thick, containing large cleaved metacrysts in a matrix of antigorite, talc and magnetite. The ultramafic body assayed 2300 parts per million nickel, 106 parts per million cobalt and 175 parts per million copper (Hicks, 1982).

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```

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 190

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 191 NATIONAL MINERAL INVENTORY: 082M4 Au1

NAME(S): **REA GOLD**, HILTON

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 08 50 N NORTHING: 5669980 LONGITUDE: 119 49 14 W ELEVATION: 1475 Metres **EASTING: 302727** 

LOCATION ACCURACY: Within 500M

COMMENTS: Discovery zone (L100 lens) (Fieldwork 1985).

COMMODITIES: Silver 7inc Lead Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Arsenopyrite Chalcopyrite

Tétrahedrite ASSOCIATED: Barite

**Pyrite** Sericite

ALTERATION: Silica ALTERATION TYPE: Silicific'n Pyrite Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Stratabound Stockwork Massive

CLASSIFICATION: Volcanogenic

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 Nora SHAPE: Tabular DIMENSION: 120 x 50 STRIKE/DIP: 140/60E TREND/PLUNGE: x 4 Metres

COMMENTS: Discovery lens (L100 lens).

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group **Eagle Bay** 

LITHOLOGY: Chloritic Phyllite

Quartz Sericite Schist

Chert Siliceous Tuff Mafic Tuff Argillite Siltstone Grit

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: YEAR: 1987 Indicated 376000 Tonnes QUANTITY:

COMMODITY Silver **GRADE** 69,4000 Grams per tonne Gold 6.1000 Grams per tonne 0.3300 Per cent Copper Leàd 2.2000 Per cent Zinc 2.3000 Per cent

COMMENTS: Reserves for northern and southern lenses

REFERENCE: George Cross News Letter No.8, 1987; Northern Miner November 30, 1987.

CAPSULE GEOLOGY

The Rea Gold deposit is hosted by chloritic phyllites, quartz-sericite schists and chert derived from predominantly mafic with minor intermediate to felsic volcanic and volcaniclastic rocks (Unit EBF) of the Lower Cambrian and older(?) to Mississippian Eagle Bay Formation (Map 56). The rocks are underlain by sericitic phyllites, derived from felsic to intermediate volcanics (Unit EBA) which host the Homestake deposit (082M 025), 4 kilometres south. These units are overlain by metasedimentary rocks consisting of argillites, siltstones and grits, which are structurally overlain to the east by mafic metavolcanics (Unit EBG). The deposit lies on the inverted PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

northern limb of a northwest trending, northeast dipping, tight, overturned syncline.

Two massive sulphide lenses, 250 metres apart and at about the same stratigraphic level, occur at the stratigraphic top of a silicified tuff and exhalative chert sequence that lies above a thicker sequence of mafic ash, crystal and lapilli tuffs. Both lenses are stratigraphically overlain by a thin sequence of mafic tuff which grades up into argillites, wackes and grits. The southern lens is "capped" by a layer of massive barite.

The massive sulphides are underlain by a footwall feeder and alteration zone, characterized by intense silicification, pervasive pyrite and sericite development. As the stratigraphic succession is inverted, the "footwall alteration zone" or "stockwork feeder zone" forms the structural hanging wall of the sulphide lenses.

Mineralization within the sulphide lenses include pyrite, sphalerite, galena, arsenopyrite, chalcopyrite and tetrahedrite-tennantite. The sulphides range from fine-grained, massive with a faint breccia texture, to medium-grained and banded (Fieldwork 1984). Gold and silver is associated with the massive sulphides and barite.

The southern lens (L98 lens) has a surface strike length of 75 metres and a downdip extension of at least 80 metres. Massive sulphide widths to 8 metres have been intersected by drilling.

The northern lens (L100 lens) or Discovery lens, has a surface

The northern lens (L100 lens) or Discovery lens, has a surface strike length of about 50 metres, a width of about 4 metres, and a down dip projection of at least 120 metres. The lens strikes 140 degrees and dips 50-60 degrees north eastward. Measured geological reserves are estimated at 242,849 tonnes grading 6.51 grams per tonne gold, 73.37 grams per tonne silver, 2.14 per cent lead, 2.24 per cent zinc and 0.52 per cent copper (George Cross News Letter #8, 1987).

The southern lens or L98 lens, contains measured geological reserves of 133,536 tonnes grading 61.71 grams per tonne silver, 5.41 grams per tonne gold, 0.69 per cent copper, 2.4 per cent lead and 2.4 per cent zinc (Northern Miner - November 30, 1987).

See Samatosum (082M 244) for related information.

See Samatosum (082M 244) for related information. Indicated reserves for the northern and southerm lenses are 376,000 tonnes grading 0.33 per cent copper, 2.2 per cent lead, 2.3 per cent zinc, 6.1 grams per tonne gold and 69.4 grams per tonne silver (George Cross News Letter No.8, 1987; Northern Miner November 30, 1987).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1987/12/30 REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 192

NATIONAL MINERAL INVENTORY:

NAME(S): BEARTREE, SLIDE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M08W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

867

LATITUDE: 51 29 10 N LONGITUDE: 118 17 04 W ELEVATION: 1300 Metres

NORTHING: 5704667 EASTING: 410818

MINING DIVISION: Revelstoke

LOCATION ACCURACY: Within 500M

COMMENTS: Slide zone - (Assessment Report 10776).

COMMODITIES: Tungsten

Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Scheelite Powellite Molybdenite

Pyrite

Chalcopyrite

Malachite COMMENTS: Scheelite rimmed by powellite.

ASSOCIATED: Quartz ALTERATION: Malachite Diopside Garnet

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement TYPE: K05 W ska Skarn

W skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian **GROUP** 

Lardeau Mesozoic

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Siltstone

Sandstone Limestone Hornfels Schist

Quartz Monzonite Volcanic

Skarn

HOSTROCK COMMENTS: Downie Creek Pluton.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The property is underlain by siltstones, sandstones, limestones and minor basic volcanics of probable Lower Paleozoic Lardeau Group. The rocks are affected by low grade regional metamorphism and are part of the lower (inverted) limb of a major F1 regional nappe structure which has been subsequently deformed by F2 recumbent isoclinal folds and later open folds. The latter are related to the Downie Creek pluton which consists of biotite-quartz

monzonite.

The sedimentary rocks in contact with the pluton are converted to schists, hornfels and scheelite-bearing skarns. Two distinct mineralized zones are the cave zone consisting of coarse-grained garnet diopside skarn, with abundant disseminated scheelite, and traces of molybdenite, devoid of sulphides, and the slide zone consisting of a quartz sulphide-scheelite breccia zone.

Trace disseminations of chalcopyrite and malachite with pyrite

were reported in the southern property area.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Placer Dome File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1986/03/06 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 192

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 193

NATIONAL MINERAL INVENTORY:

NAME(S): WAD

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

869

LATITUDE: 51 02 50 N LONGITUDE: 119 35 04 W ELEVATION: 1700 Metres

NORTHING: 5658254 EASTING: 318848

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Fig. 4B (Assessment Report 13192).

COMMODITIES: Copper 7inc Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Pyrrhotite Chalcopyrite Sphalerite Galena

**DEPOSIT** CHARACTER: Stratiform Disseminated

CLASSIFICATION: Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group

Eagle Bay Unnamed/Unknown Informal Unknown

LITHOLOGY: Basic Extrusive

Volcanic Breccia Granodiorite Diorite Chert

Quartz Porphyry Pyroclastic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 43.9000 Grams per tonne 0.6900 2.5000 Gold Grams per tonne Per cent Copper Per cent Lead 0.1000 Zinc 0.5000 Per cent

REFERENCE: Assessment Report 13192.

CAPSULE GEOLOGY

The property is underlain by northeast trending, folded and metamorphosed mafic and intermediate volcanics, volcanoclastics and sediments of the Late Devonian to Early Mississippian age Eagle Bay Formation. These rocks are intruded by dykes and stocks of diorite, diabase, granodiorite and quartz porphyry.

The metavolcanics comprise a lower unit of mafic flows and breccias of basaltic composition intercalated with detrital sediment, chert lenses and intermediate volcanic rocks. These rocks are overlain by intermediate volcanic flows, breccias and

volcanoclastics of andesitic to rhyodacite composition.
Structure in the area is dominated by a northeasterly trending overturned synform cut by several north trending right lateral faults.

Disseminated, veinlet and replacement pyrite, pyrrhotite and to a lesser extent chalcopyrite, sphalerite and galena mineralization are hosted by metasomatized mafic volcanic flows and breccias, and dioritic phases of the granodiorite stock. This showing appears restricted to the margins of a roof pendant of the mafic volcanic sequence within the intrusion.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

A grab sample assayed 2.5 per cent copper, 0.5 per cent zinc, 0.1 per cent lead, 43.9 grams per tonne silver and 0.69 grams per  $^{\circ}$ tonne gold.

**BIBLIOGRAPHY** 

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DATE CODED: 1986/04/14 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 193

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 194

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

871

NAME(S): JOSEPH

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 32 05 N NORTHING: 5713537 EASTING: 292442

LONGITUDE: 119 59 34 W ELEVATION: 1835 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill holes, Drill Plan (Assessment Report 8530).

COMMODITIES: Silver 7inc Copper **Barite** I ead

Gold

**MINERALS** 

SIGNIFICANT: Galena Pyrite Sphalerite Chalcopyrite Pyrrhotite Barite

ASSOCIATED: Quartz
ALTERATION: Calcite
ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratabound Massive

CLASSIFICATION: Industrial Min. Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 SHAPE: Tabular

MODIFIER: Fractured

DIMENSION: 0210 x 0008 Metres STRIKE/DIP: 160/85W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Slide Mountain

ISOTOPIC AGE: 265 Ma MATERIAL DATED: Conodont

LITHOLOGY: Argillite

Chert Conglomerate

Basalt

Quartz Feldspar Porphyry

Sandstone Phyllite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay

INVENTORY

REPORT ON: N ORE ZONE: DRILLHOLE

> CATEGORY: Assay/analysis YEAR: 1984

SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Silver 93.9400 Grams per tonne Gold 0.1700 Grams per tonne **Barite** 2.4500 Per cent Copper 0.0200 Per cent Leàd 9.2000 Per cent Zinc 1.5600 Per cent

COMMENTS: The sample width is 2.7 metres. REFERENCE: Assessment Report 13045.

CAPSULE GEOLOGY

The area is underlain by the Devonian to Permian Fennell Formation. The Lower (eastern) division is a heterogenous assemblage of bedded chert, basalt, quartz-feldspar porphyry, conglomerate, sandstone, argillite, phyllite and limestone. The units occupy a westerly overturned syncline, which plunges shallowly to the north-northwest. To the east, separated by an east-dipping thrust fault, are metavolcanics of the Eagle Bay

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Formation. The Middle Cretaceous Baldy Batholith lies to the south.  $\ensuremath{\mathsf{S}}$ 

The mineralized zone lies within a 75 metre wide sedimentary panel of argillite, chert, minor chert-pebble conglomerate. The sediments trend north-northwest, dip steeply west, and are contained within a extensive basalt sequence. Deformation is intense, shown by gouge and brecciation within broader zones of cleavage and fracturing.

Stratabound mineralization occurs as irregular veins of galena, pyrite and minor sphalerite. The sulphides are associated with quartz and some carbonate or occur as nearly massive aggregates. The mineralization is fairly widespread but the most signficant concentrations occur in an 8 metre wide zone. A drill hole intersected 9.2 metres of 2.39 per cent lead, 1.05 per cent zinc, 1.27 per cent barium, 0.014 per cent copper, 30.9 grams per tonne silver and 0.07 grams per tonne gold, within which occurred 2.7 metres of 9.2 per cent lead, 1.56 per cent zinc, 2.45 per cent barium, 0.02 per cent copper, 93.94 grams per tonne silver and 0.17 grams per tonne gold (Assessment Report 13045). A drill hole 210 metres to the northwest intersected 1.8 metres of 2.9 per cent lead, 0.45 per cent zinc and 26.06 grams per tonne silver (Assessment Report 13054).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 8530, 9716, \*11381, \*13054 EMPR EXPL 1979-200; 1980-144; 1983-168; 1984-130 EMPR MAP 53; 56 EMPR OF 1986-5; 1999-2 GSC MAP 48-1963 GSC OF 290; 637 GSC P 75-1A GCNL #168, 1984

DATE CODED: 1987/01/10 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1987/01/10 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 194

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 195 NATIONAL MINERAL INVENTORY: 082M1 Zn5

NAME(S): MASTODON NORTH

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01E 082M08E UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 15 00 N LONGITUDE: 118 07 14 W ELEVATION: 1400 Metres NORTHING: 5678223 EASTING: 421795

LOCATION ACCURACY: Within 500M

COMMENTS: See NMI 082M1 Zn1 Mastodon. Annual Report 1950-165; 1959-111,116-117.

COMMODITIES: Zinc Silver Barite Fluorite I ead

Gold Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Barite Fluorite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement TYPE: E14 Sedin Industrial Min. Sedimentary exhalative Zn-Pb-Ag

SHAPE: Irregular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Lower Cambrian Badshot

LITHOLOGY: Limestone

Dolomite Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The showings occur in a contorted zone containing lenses of dolomite and limestone in grey phyllite between two extensive masses of limestone. A fault striking between 340 to 360 degrees and dipping 40 to 65 degrees bounds the east side of the contorted zone.

Two groups of showings occur between 1325 and 1585 metres. The first group has a strike length of 40 metres of sparse mineralization. Mineralized widths up to 2 metres of disseminated sphalerite and galena occur along a dolomite-phyllite contact. Irregular mineralized veinlets also occur with white and mauve crystals of fluorite, white crystalline barite and quartz.

Two hundred and fifty metres north is a second group of showings scattered over a strike length of 100 metres. Sphalerite

lenses occur in limestone and occassionally in phyllite; the

largest is 1.5 metres wide and 1.2 metres thick.

**BIBLIOGRAPHY** 

EMPR AR 1918-189; \*1950-165, Fig. 5; \*1959-111, 116, 117

EMPR OF 1992-16 GSC MAP 12-1964 GSC OF 290; 637 GSC P 75-1A

GSC SUM RPT 1928, part A, p. 190

DATE CODED: 1986/02/27 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N DATE REVISED: 1987/01/12 FIELD CHECK: N

MINFILE NUMBER: 082M 195

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 196 NATIONAL MINERAL INVENTORY: 082M1 Zn3

NAME(S): LITTLE SLIDE NO. 3, MCCALLUM

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M01E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 12 40 N NORTHING: 5673835 LONGITUDE: 118 03 34 W ELEVATION: 1710 Metres EASTING: 425998

LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol 7, Map 12-1964 and description p. 118 (GSC Paper 84-32).

COMMODITIES: Zinc. Silver Lead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Chalcopyrite

Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Stratabound

CLASSIFICATION: Replacement Sedimentary exhalative Zn-Pb-Ag

TYPE: E14 SHAPE: Tabular MODIFIER: Folded

DIMENSION: 0015 x 0006 STRIKE/DIP: Metres TREND/PLUNGE: 360/35

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Badshot

LITHOLOGY: Phyllite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

Disseminated

CAPSULE GEOLOGY

Galena and sphalerite occur as discontinuous layers in limestone and as irregular disseminated lenses in dolomite, within grey and green phyllites. The highest-grade mineralization occurs in a 2 metre band of limestone which lenses out into dolomite, forming an isoclinal antiform plunging 35 degrees to the north. In the crest of the antiform is a rusty phyllite lens between the limestone and dolomite and pinching out along the

limbs.

**BIBLIOGRAPHY** 

EMPR AR 1900-809; 1917-151,152, \*1959-118,119

EMPR ASS RPT \*5724

EMPR EXPL 1975-E56; 1977-E86 GSC MAP 12-1964

GSC OF 290; 637 GSC P 75-1A, 84-32, p. 30 GSC SUM RPT 1929, part A, p. 190

EMPR OF 2000-22

DATE CODED: 1986/02/28 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/01/12 FIELD CHECK: N

MINFILE NUMBER: 082M 196

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 197

NATIONAL MINERAL INVENTORY:

NAME(S): KIRKUP

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

875

LATITUDE: 51 00 00 N

NORTHING: 5650763 EASTING: 401492

LONGITUDE: 118 24 14 W ELEVATION: 1980 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Fig. 4 (Assessment Report 1794). Includes 82LNE001 (deleted from file), "JS, JR, JT, and GC".

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc

ASSOCIATED: Quartz Feldspar

Sillimanite Chlorite Mica

ALTERATION TYPE: Serpentin'zn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Mas CLASSIFICATION: Sedimentary Hyd TYPE: E08 Carbonate-hosted talc Massive

Industrial Min. Hvdrothermal

SHAPE: Regular

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Shuswap Metamorphic Complex

LITHOLOGY: Gneiss

Quartzite Calc-silicate Argillite Marble Pegmatite Lamprophyre Talc Schist

HOSTROCK COMMENTS: Intruded by swarms of pegmatite and lamprophyre dykes.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence is on the south flank of the Frenchman's Cap gneiss dome in the Shuswap Metamorphic Complex. Gneiss, quartzite, schist, calc-silicate rocks, minor marble and argillite are iso-clinally folded with easterly trending structures. Folding and jointing are common with planes intruded by swarms of pegmatite and lamprophyre dykes.

A talc schist was sampled and analysed by x-ray diffraction in

1968, and found to contain talc and mica intergrown with chlorite. Accessory minerals are quartz, feldspar and sillimanite (Assessment Report 1794).

A small bed of "nearly pure" talc is reported to occur within mixed gneisses, about one kilometre to the south.

BIBLIOGRAPHY

EMPR ASS RPT \*1792, \*1793, \*1794

EMPR OF 1988-19 GSC MAP 12-1964 GSC P 64-32

DATE CODED: 1986/02/21 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1988/01/21 REVISED BY: MM FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 198

NATIONAL MINERAL INVENTORY:

NAME(S): **CHILLY LAKE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M07E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

876

LATITUDE: 51 18 40 N

NORTHING: 5685824 EASTING: 380276

LONGITUDE: 118 43 04 W ELEVATION: 2000 Metres LOCATION ACCURACY: Within 5 KM COMMENTS: From descriptions.

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite MINERALIZATION AGE: Unknown Andalusite Sillimanite

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Mica Schist

Pelite

Sillimanite Kyanite Gneiss Quartzite Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the western margin of the Frenchman Cap Dome. The core of the dome is composed of mixed paragneiss and orthogneiss rocks of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks. The metasediments in the immediate area comprise pelites, calc-silicate gneiss, sillimanite-kyanite schists and quartzites.

The kyanite forms porphyroblasts several centimetres long

in quartz-mica schists.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1981, pp. 187-201

EMPR MAP 43 GSC MAP 12-1964

GSC OF 637 GSC P 64-32, p. 5; \*71-29, p. 40,Fig. 3

DATE CODED: 1986/03/14 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 199

NATIONAL MINERAL INVENTORY:

NAME(S): REN, MT. GRACE, RATCHFORD CREEK

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M07E BC MAP: LATITUDE: 51 21 30 N

UTM ZONE: 11 (NAD 83) NORTHING: 5691116 EASTING: 378658

PAGE:

REPORT: RGEN0100

877

LONGITUDE: 118 44 34 W ELEVATION: 1140 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Zone of anomalous elements, Map C (Assessment Report 11639).

COMMODITIES: Cerium 7inc

Lanthanum Neodymium Niobium

Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Apatite Sphalerite Columbite Chalcopyrite

Monazite Molybdenite Pyrrhotite Pyrochlore

Pyrite

ASSOCIATED: Calcite ALTERATION: Sphene

Apatite Sphene Amphibole Biotite

Monazite

Pyrochlore

ALTERATION TYPE: Fenitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant

CLASSIFICATION: Magmatic
TYPE: N01 Carbonatite-hosted deposits

SHAPE: Tabular

MODIFIER: Folded

**DIMENSION:** 3000 x 0200

Metres

STRIKE/DIP: 315/25S

TREND/PLUNGE:

COMMENTS: Maximum extent of carbonatite; general strike and dip.

HOST ROCK DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Monashee Complex

LITHOLOGY: Carbonatite

Pyroxene Amphibole Fenite

Calc-silicate Quartzite Alkali Gneiss Marble Tuff Pelitic Schist Pelitic Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area lies within the Monashee Complex along the western margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks, locally intruded by a suite of alkalic gneiss. The metasediments consist of a basal quartzite unit overlain by a succession of interbanded pelitic schists, pelitic gneiss, calc-silicate and marble.

Two types of carbonatites occur within the calc-silicate unit. Type I is concordant within quartz-biotite-gneiss, quartz-amphibole gneiss and quartzite. It trends northwest for 3 kilometres, and dips to the southwest, and varies from 20 to 200 metres in width. The carbonatite averages 60 to 80 per cent calcite, 10 to 30 per cent apatite with accessory biotite, amphibole, sphene and minor pyrrhotite, pyrite, sphalerite, chalcopyrite, molybdenite, pyrochlore and monazite. The carbonatite is associated with pyroxene-amphibole fenites.

Type II, occurring 2 kilometres to the west, is concordant with a white marble unit and other metasedimentary layers and has been interpreted to be a carbonatite tuff.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

## GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11639 EMPR BULL 80 EMPR EXPL 1983-161 EMPR FIELDWORK 1981, pp. 194,199; 1985, pp. 69-88 ECON GEOL \*Vol. 81, 1986, pp. 1374-1386 EMPR OF \*1987-17, p. 54 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

CJES v. II, pp. 304-318 (McMillan, W.J., and Moore Jr., J.M. (1974) Placer Dome File

WWW http://www.infomine.com/

CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N DATE CODED: 1986/03/13 DATE REVISED: 1987/01/05

MINFILE NUMBER: 082M 199

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 200

NATIONAL MINERAL INVENTORY:

NAME(S): **D&R** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

879

LATITUDE: 51 32 10 N

NORTHING: 5711031 EASTING: 373157

LONGITUDE: 118 49 44 W ELEVATION: 2150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Fig. 2 (Assessment Report 8609).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

CHARACTER: Concordant CLASSIFICATION: Unknown TYPE: \* Unk

Unknown

COMMENTS: The molybdenum is concentrated in a 3 square metre area.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** 

LITHOLOGY: Hornblende Gneiss

Sillimanite Gneiss Quartz Syenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area lies within the Shuswap Metamorphic Complex along the northwest margin of the Frenchman Cap Dome. The core of the Dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age.

The molybdenum occurs at the closure of a small fold or limb in a quartz-syenite orthogneiss layer that is part of a paragneiss sequence within the northwest limb of the Mount Grace Syncline.

The syenite measures about 1300 by 200 metres.

The original molybdenum occurrence lies 1 kilometre to the west, down section from the larger occurrence in a hornblendrich gneiss. The mineralized zone measures about 4 square metres and an assay returned 0.65 per cent molybdenite (Johnson, 1980).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8609

EMPR BULL \*80, p. EMPR EXPL 1980-143

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637

GSC P 64-32

Johnson, D.D. (1980): A Petrographic Study of the Cottonbelt Mine, Revelstoke Mining District, British Columbia, unpublished B.Sc.

Thesis, University of Calgary, Calgary, Alberta

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/03/17 FIELD CHECK: N DATE REVISED: 1987/01/12 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 201

NATIONAL MINERAL INVENTORY:

NAME(S): MEL 1200

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP:

NORTHING: 5711084 EASTING: 398213

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

880

LATITUDE: 51 32 30 N LONGITUDE: 118 28 04 W ELEVATION: 1900 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Mel 1200, claim, Fig. 1 (Assessment Report 6347).

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform CLASSIFICATION: Syngenetic TYPE: G04 Bes

Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Lardeau IGNEOUS/METAMORPHIC/OTHER **FORMATION** Lardeau Index

LITHOLOGY: Graphitic Schist

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE:

METAMORPHIC TYPE: Regional RELATIONSHIP:

**CAPSULE GEOLOGY** 

The area is underlain by metasediments of probable Lower

Paleozoic Lardeau Group.

Mineralized graphitic schist or chloritic phyllite, similar

to enclosing rocks of the Goldstream deposit, outcrop on the

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6347, 15484

EMPR BULL 71 EMPR EXPL 1976-E67

EMPR MAP 25 EMPR OF 1999-2 GSC MAP 12-1964

GSC OF 637 GSC P 64-32

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/03/26 DATE REVISED: 1987/07/30 FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 202

NATIONAL MINERAL INVENTORY:

NAME(S): **MEL 600** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

881

NORTHING: 5713763 **EASTING: 403467** 

LATITUDE: 51 34 00 N
LONGITUDE: 118 23 34 W
ELEVATION: 1500 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Centre of Mel 600 Claim, Fig. 1 (Assessment Report 6347).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Pyrrhotite

**DEPOSIT** 

CHARACTER: Unknown
CLASSIFICATION: Replacement
TYPE: K01 Cu skarn

Hydrothermal Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Cambrian Triassic

Lardeau

Undefined Formation

Unnamed/Unknown Informal

LITHOLOGY: Meta Sediment/Sedimentary

Quartz Monzonite

Hornfels Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Contact

RELATIONSHIP: GRADE: Hornfels

CAPSULE GEOLOGY

The area is underlain by metasedimentary rocks of probable Lower Paleozoic Lardeau Group. A large Triassic (?) aged intrusive body cuts the metasediments, altering the rocks to

hornfels and skarn.

Minor chalcopyrite and pyrrhotite occur in the contact

metamorphic zone.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6347, 15484

EMPR BULL 71 EMPR EXPL 1976-E67 EMPR OF 1999-2 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

DATE CODED: 1986/03/26 DATE REVISED: 1987/07/30

CODED BY: LDJ REVISED BY: LDJ

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 203

NATIONAL MINERAL INVENTORY:

NAME(S): MEL 200

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

882

NORTHING: 5713830 EASTING: 400001

LATITUDE: 51 34 00 N
LONGITUDE: 118 26 34 W
ELEVATION: 2000 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Centre of Mel 200 Claim, Fig. 1 (Assessment Report 6347).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Pyrrhotite

**DEPOSIT** 

CHARACTER: Unknown
CLASSIFICATION: Replacement
TYPE: K01 Cu sk

Hydrothermal Skarn

Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau

Cambrian Cambrian Unnamed/Unknown Informal Index

LITHOLOGY: Meta Sediment/Sedimentary

Quartz Monzonite

Hornfels Skarn

TERRANE: Kootenay

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

**RELATIONSHIP:** GRADE: Hornfels METAMORPHIC TYPE: Contact

**CAPSULE GEOLOGY** 

The area is underlain by metasediments of probable Lower Paleozoic Lardeau Group. A large Triassic (?) aged intrusive body cuts the metasedimentary rocks, developing hornfels and

skarn.

Minor chalcopyrite and pyrrhotite occur in the contact

metamorphic zone.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6347, 15484

EMPR BULL 71 EMPR EXPL 1976-E67 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N DATE CODED: 1986/03/26 DATE REVISED: 1987/07/30 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 204

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

883

NAME(S): NEXT 1

MINING DIVISION: Revelstoke

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 37 30 N
LONGITUDE: 118 31 34 W
ELEVATION: 1000 Metres
LOCATION ACCURACY: Within 5 KM
COMMENTS: Trench. Fig. 2 (Assessment Report 6347). NORTHING: 5720434 EASTING: 394361

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lardeau Index

LITHOLOGY: Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The area is underlain by probable Lower Paleozoic Lardeau Group metasediments and metavolcanics. A bulldozed trench

revealed chalcopyrite in chloritic phyllite rubble.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6347, 15484

EMPR EXPL 1976-E67 GSC MAP 12-1964 GSC OF 637 GSC P 64-32

GCNL Apr.14, June 14, Aug.11, Oct.22, 1976 WWW http://www.orphanboy.com/gstream.html

DATE CODED: 1986/03/26 DATE REVISED: 1987/07/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 205

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5725032 EASTING: 396187

REPORT: RGEN0100

884

NAME(S): STAN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Revelstoke

NTS MAP: 082M09W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 40 00 N

LONGITUDE: 118 30 04 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Boundaries of Stan 500 and 600 claims, Fig. 1 (Assessment Report 6347.

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Lardeau **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Lardeau

LITHOLOGY: Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Selkirk Mountains

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by probable Lower Paleozoic Lardeau

Group metasediments.

Galena occurs in narrow quartz stringers.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6347 EMPR EXPL 1976-E67 GSC MAP 12-1964 GSC OF 637

GSC P 64-32

WWW http://www.orphanboy.com/gstream.html

DATE CODED: 1986/03/26 DATE REVISED: 1986/03/26 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 206

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

885

NAME(S): MB

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M03E BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5652645 EASTING: 349083 LATITUDE: 51 00 20 N

LONGITUDE: 119 09 04 W ELEVATION: 1580 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description (Assessment Report 11808); north side of Hudson Creek.

COMMODITIES: Silver I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

ALTERATION: Quartz Ankerite Mariposite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Sericitic Carbonate

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic <u>GRO</u>UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Schist

Limestone Quartzite Dolomite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The property is underlain by Paleozoic graphitic schists in contact with limestone, dolomite and limy quartzites of the

Eagle Bay Formation.

A 1.5 to 2.0 metre wide, flatly dipping quartz vein striking west-northwest contains argentiferous galena. Disseminated galena is also noted in dolomitic limestone bands near the contact with the schists.

Soil geochemistry identified highly anomalous lead values. A quartz ankerite mariposite alteration zone with economic values of silver (unverified) corresponds to a magnetic low (Assessment

Report 11808).

**BIBLIOGRAPHY** 

EMPR ASS RPT 10272, 11808 EMPR EXPL 1982-107; 1983-152

GSC MAP 48-1963 GSC OF 290; 637 GSC P 75-1A

DATE CODED: 1986/04/07 DATE REVISED: 1986/04/07 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 207

NATIONAL MINERAL INVENTORY:

NAME(S): SPARKLE 4, METAL CREST

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M03W BC MAP:

PAGE:

REPORT: RGEN0100

886

LATITUDE: 51 01 20 N LONGITUDE: 119 26 44 W ELEVATION: 550 Metres NORTHING: 5655142 EASTING: 328489

LOCATION ACCURACY: Within 500M

COMMENTS: Fig. 4 (Assessment Report 13381). This report (p. 29) suggests this

showing is the Metal Crest (082LNW014) occurrence.

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite Pyrite Magnetite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Calcite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Replacement Concordant Disseminated

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Eagle Bay

LITHOLOGY: Phyllite

Chert Argillite Quartzite Limestone Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

CAPSULE GEOLOGY

The property is underlain by rocks of the Cambrian to Ordovician Eagle Bay Formation consisting of metamorphosed felsic to basic volcanics, black argillite and minor quartzite and

limestone.

The showing is a mineralized quartz-carbonate vein hosted by a cherty horizon within mafic metavolcanics. Mineralization consists of galena, pyrite, chalcopyrite and sphalerite in the quartz-calcite vein and pyrite, galena and magnetite in a 1.5

by 35 metre chert horizon.

**BIBLIOGRAPHY** 

EMPR AR 1929-218 EMPR ASS RPT 13381 GSC MAP 48-1963 GSC MEM 296, p. 146 GSC OF 290; 637

DATE CODED: 1986/04/07 DATE REVISED: 1986/04/07 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 208

NATIONAL MINERAL INVENTORY:

NAME(S): JIM

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

887

NTS MAP: 082M03W BC MAP:

NORTHING: 5662376 EASTING: 334182

LATITUDE: 51 05 20 N LONGITUDE: 119 22 04 W ELEVATION: 1450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Geology map (Assessment Report 11253). Discovery showing (082M 154) is located 1.3 kilometres to the west.

COMMODITIES: Lead 7inc Silver Manganese

MINERALS
SIGNIFICANT: Galena Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement Industrial Min. TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER Eagle Bay

LITHOLOGY: Greenstone

Limestone Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The property is underlain by sediments and volcanics of the Eagle Bay Formation. The rocks consist of limestones and greenstones. These are overlain by argillaceous phyllites. The rocks strike northeast and dip 30 to 45 degrees northwest. Galena, sphalerite and manganese occur at the base of

the greenstones adjacent to the limestones.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6388, 7371, \*8348, \*11253, 12848, 13760, 14126 EMPR EXPL 1977-87; 1978-102; 1979-108; 1982-108; 1984-111,112

GSC MAP 48-1963 GSC OF 637

DATE CODED: 1986/04/07 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1986/04/07 REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 209

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5656739 EASTING: 326983

REPORT: RGEN0100

888

NAME(S): GOLDEN EAGLE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M03W BC MAP:

LATITUDE: 51 02 10 N

LONGITUDE: 119 28 04 W ELEVATION: 1050 Metres LOCATION ACCURACY: Within 1 KM COMMENTS: Centre of claim.

> COMMODITIES: Copper Zinc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite Arsenopyrite

Magnetite ASSOCIATED: Quartz ALTERATION: Limonite
ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Eagle Bay

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Schist

Quartzite Granite Granodiorite Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The property is underlain in the west by Lower Paleozoic Eagle Bay metavolcanics and metasediments consisting of chlorite schist, mica schist, greenstone and quartzite. The eastern pa of the claim is underlain by granitic rocks of Cretaceous age. The eastern part Several mineralized veins, striking north to northeast and dipping to the west, occur within the metamorphic and granitic rocks. Mineralization consists of pyrite, chalcopyrite, magnetite,

and limonite with minor sphalerite, galena and arsenopyrite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11898, 13204, 13513

EMPR MAP 56 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1986/04/08 DATE REVISED: 1986/04/08 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 210

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5661236 EASTING: 331224

REPORT: RGEN0100

889

NAME(S): FIR, DON

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M03W BC MAP:

LATITUDE: 51 04 40 N LONGITUDE: 119 24 34 W ELEVATION: 1600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Geology map (Assessment Report 7371).

COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Tetrahedrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Eagle Bay** 

LITHOLOGY: Limestone

Tuff Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: VEIN

> CATEGORY: YEAR: 1976 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 2976.0000 Grams per tonne 44.2500 I ead Per cent

COMMENTS: The sample width is 5 centimetres.

REFERENCE: Assessment Report 6388.

**CAPSULE GEOLOGY** 

The property is underlain by sediments and volcanics of the Cambrian to Ordovician Eagle Bay Formation, consisting of

limestones, schists and tuffs.

Mineralized quartz veins, trending southeast, occur within the volcanics and limestones. The veins carry galena and tetrahedrite. A 5.0 centimetre wide vein gave 44.25 per cent lead and 2976 grams per tonne silver and a 46 centimetre wide vein

ran 4.92 per cent lead and 429 grams per tonne silver.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6388, \*7371, \*8348, \*11253, 12848, 13760, 14126 EMPR EXPL 1976-59; 1977-87; 1978-102; 1979-108; 1982-108;

1984-111,112 GSC MAP 48-1963

GSC OF 637

GCNL Apr. 15, Nov. 4, 1980; Oct. 21, 1982; June 14, 1983 IPDM v. 7, No. 2, March/April 1984, p. 9 (Bachelor, D., 1984)

N MINER July 5, 1984

DATE CODED: 1986/04/08 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1986/04/08 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 211

NATIONAL MINERAL INVENTORY:

Copper

NAME(S): WAD-SECOND

STATUS: Prospect REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

890

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 02 50 N NORTHING: 5658296 EASTING: 317679

LONGITUDE: 119 36 04 W ELEVATION: 1800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Fig 4A (Assessment Report 13192).

COMMODITIES: Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION: Quartz Pyrrhotite Chalcopyrite Sphalerite Galena Calcite Chlorite Mariposite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Volcanogenic
TYPE: G06 Noran Concordant Massive Disseminated

Syngenetic

Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER

Eagle Bay

LITHOLOGY: Chert

Basic Extrusive Tuff **Phyllite** Rhyodacite Diorite Granodiorite Quartz Porphyry

Basalt Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> Assay/analysis YEAR: 1986

CATEGORY: Assay/an SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Silver 3.7700 0.0800 Grams per tonne Per cent Copper 0.0500 Per cent Lead

Zinc COMMENTS: The sample width is 0.55 metres. REFERENCE: Assessment Report 14716.

CAPSULE GEOLOGY

The property is underlain by northeast trending, folded and metamorphosed mafic and intermediate volcanics, volcanoclastics and sediments of the Late Devonian to Early Mississippian age Eagle Bay Formation. These rocks are intruded by dykes and stocks of diorite, diabase, granodiorite and quartz porphyry.

Per cent

4.1800

The metavolcanics comprise a lower unit of mafic flows and breccias of basaltic composition, intercalated with detrital sediment, chert lenses and intermediate volcanic rocks. These rocks are overlain by intermediate volcanic flows, breccias and volcanoclastics of andesitic to rhyodacite composition.

Structure in the area is dominated by a northeasterly trending overturned synform cut by several north trending right lateral faults. The Wad-second showing is disseminated, veinlet and semi-massive pyrite, pyrrhotite with lesser chalcopyrite, sphalerite and galena hosted by an altered chert horizon. The chert host is altered with

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

secondary quartz, calcite, chlorite and mariposite. This mineralization, although possibly remobilized by later synmetamorphic folding, appears to be syngenetic and conformable with the enclosing country rocks.

The mineralization is exposed for 4 metres and a grab sample assayed 0.38 per cent lead, 0.36 per cent zinc, 0.20 per cent copper and 12 grams per tonne silver (Assessment Report 13192). Subsequent drilling in the area intersected mineralized horizons in tuffs and phyllites overlying a rhyodacite flow and in greenstones and chloritized rhyodacites. Drill hole AX26 intersected 0.275 per cent zinc, 0.047 per cent lead, 0.108 per cent copper, and 1.6 grams per tonne silver over 5.58 metres and 400 metres to the northeast, drill hole A1 intersected 4.18 per cent zinc, 0.05 per cent lead, 0.08 per cent copper and 3.77 grams per tonne silver over 0.55 metres (Assessment Report 14716).

A 1986 drill hole intersected 0.36 per cent zinc, 0.07 per cent lead, 0.27 per cent copper, 7.2 grams per tonne silver, and 0.17 grams per tonne gold over 2.9 metres (Assessment Report 15609).

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*13192, \*14716, 15609 EMPR EXPL 1984-116; 1986-C111 EMPR INF CIRC 1985-1, pp. 24,36 EMPR MAP 56 EMPR OF 1999-2 GSC MAP 48-1963 GSC OF 637 GCNL #208, 1984; Oct. 16, 1985

DATE CODED: 1986/04/14 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1987/07/20 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 211

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 212

NATIONAL MINERAL INVENTORY:

NAME(S): AXL 3

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

892

LATITUDE: 51 02 40 N NORTHING: 5658070 EASTING: 315332

LONGITUDE: 119 38 04 W ELEVATION: 1900 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill holes, Drawing No. 1 (Assessment Report 13542).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Galena Sphalerite Pyrrhotite Chalcopyrite

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Phyllite

Tuff Rhyodacite Limestone Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay GRADE: Greenschist METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1985 CATEGORY: Assay/analysis

> SAMPLE TYPE: Drill Core COMMODITY **GRADE**

12.3400Silver Grams per tonne Copper 0.0100 Per cent Per cent 0.0200 I ead Per cent 7inc 0.2880

COMMENTS: The sample width is 6.1 metres. REFERENCE: Assessment Report 13542.

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

The AXL 3 showing lies 3.5 kilometres southwest of the Lucky Coon (082M 012). Mineralization is exposed adjacent to bedded cherty tuffs within phyllites. Drilling, 1300 metres to bedded cherty tuffs within phyllites. Drilling, 1300 metres to the south east, intersected a mineralized horizon in rhyodacite tuff with assays of 0.288 per cent zinc, 0.02 per cent lead, 0.01 per cent copper and 12.34 grafs per tonne silver over 6.1 metres in Hole No. AX1 and 0.15 per cent zinc, 0.07 per cent lead, 0.04 per cent copper and 3.43 grams per tonne silver over 4.9 metres in Hole No. AX2.

**BIBLIOGRAPHY** 

EMPR ASS RPT 6546, 6549, 7019, 11521, 11933, 12724, 13142,

\*13542, 14716

EMPR EXPL 1984-113; 1986-C111

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP \*56 EMPR OF 1999-2 GSC MAP 48-1963; 5320G GSC OF 637 GCNL Aug. 27, 1985 IPDM Nov./Dec. 1985 NAGMIN July 19,Nov. 19, 1985

DATE CODED: 1986/04/17 DATE REVISED: 1987/07/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 212

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 213

NATIONAL MINERAL INVENTORY: 082M14 Pb1

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5660828 **EASTING: 316016** 

PAGE:

REPORT: RGEN0100

894

NAME(S): **ELSIE (L.5227)**, BILLIE (L.5228)

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 04 10 N LONGITUDE: 119 37 34 W ELEVATION: 1820 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of showings, Fig 2A (Assessment Report 11521).

COMMODITIES: Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Replacement Syngenetic Sedimentary exhalative Zn-Pb-Ag

TYPE: E14 Se SHAPE: Cylindrical MODIFIER: Folded

STRIKE/DIP: 055/40N TREND/PLUNGE: DIMENSION: 0800 x 0003 Metres

COMMENTS: General strike of strata; approximate size of deposit.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Greenschist Phyllite

Limestone Greenstone Chlorite Schist Quartzite Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: ADIT

> CATEGORY: YEAR: 1930 Assay/analysis SAMPLE TYPE: Rock

COMMODITY Silver 357.0000 Grams per tonne 26.0000 I ead Per cent Zinc 10.2000 Per cent

COMMENTS: The sample was 0.75 metres in width.

REFERENCE: Annual Report 1930, page 185.

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary

quartz-feldspar porphyry and mafic dykes with northerly trends.

Mineralization comprises sulphides of silver, lead and zinc within metasedimentary rocks on the north limb of the Nitwikwaia synform. The showings occur within a dominantly metasedimentary succession (EBGs) of siliceous and/or graphitic phyllite, calcareous phyllite, streaky banded calc-silicate rock, limestone, and quartzite. The metasediments are stratigraphically underlain by chloritic schists and greenstone (EBG Preto et al in prepara tion).

The mineralization occurs as layers, lenses and pods of

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

semi-massive to massive sulphides, generally within a siliceous gangue. The sulphide horizons are generally well banded and conformable to the schistosity and, where observed, to the bedding. Intense deformation of the rocks has caused discontinuity and marked variability in the widths of the sulphide horizons which tend to thicken in the hinge zones of folds.

The Elsie deposit, 1200 metres southwest of the Lucky Coon (082M 012), consists of several showings and drill intersections along an 800 metre strike length. Mineralization, averaging 30 centimetres wide, is semi-massive galena, sphalerite, pyrite and minor chalcopyrite within greenschist underlain by black phyllites. A 0.75 metre sample from an adit assayed 357 grams per tonne silver, 26 per cent lead and 10.2 per cent zinc.

#### **BIBLIOGRAPHY**

EM FIELDWORK 1998, pp. 223-246

EMPR AR 1927-199,200; 1928-210; 1929-218; 1930-184,185; 1936-D40-43

EMPR ASS RPT 1936, 2616, 6513, 7019, 9915, 10665 (same as 11022),
 \*11521, 11601, \*11933, \*13142, \*13381, \*13542, \*16024

EMPR EXPL 1977-E91; 1982-108,109; 1983-156; 1984-113; 1985-C100

EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; 1984, pp. 67-76

EMPR MAP 56

EMR MP CORPFILE (Norlex Mines Limited, East Lemhi Mining Company,
 Consolidated Giant Metallics Ltd., Adams Silver Resources Inc.)

GSC MAP 48-1963; 5320G

GSC OF \*637

GCNL Oct. 29, Dec. 12, 1984; June 13, 1985; #228, 1987

N MINER Nov. 1, 1984

NAGMIN Nov. 9, 1984 (p. 1); June 7 (p. 14), Nov. 19, 1985

Dickie, G.J., Preto, V.A. and Schiarizza, P., (in preparation 1986): \*Mineral Deposits of the Adams Plateau - Clearwater area Hainsworth, W.G. (1973): Report on the Lucky Coon Claims, Aug. 1973 in Consolidated Giant Metallics Ltd. Statement of Material Facts, October 17, 1973

EMPR OF 2000-22

DATE CODED: 1986/04/17 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 213

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 214

NATIONAL MINERAL INVENTORY:

NAME(S): VIC 5, ELMOORE 5, BECA

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M04E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

896

LATITUDE: 51 02 50 N

NORTHING: 5658548 EASTING: 310671

LONGITUDE: 119 42 04 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Lead Silver 7inc Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Chalcopyrite **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Disseminated

Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 P SHAPE: Irregular DIMENSION: 0200 STRIKE/DIP: 150/72E TREND/PLUNGE: Metres

COMMENTS: Quartz vein, 0.5 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Eagle Bay

LITHOLOGY: Greenstone

Greenschist Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1966 Assay/analysis

SAMPLE TYPE: Channel COMMODITY **GRADE** 

Silver Grams per tonne 3.4000 Copper 0.2300 Per cent 0.1900 Per cent I eád Per cent 7inc 0.0800

COMMENTS: The sample width is 0.5 metres. REFERENCE: Assessment Report 904.

CAPSULE GEOLOGY

The property is underlain by Devonian to Mississippian age Eagle Bay Formation. The rocks consist of greenstones, greenschists and chlorite schists trending northeast and dipping 35

to 45 degrees northwest.

The Vic 5 showing lies 600 metres northeast of the Elmoore showing. A 0.5 metre wide quartz vein occurs within greenschist along a 200 metre length trending 150 degrees and dipping 72 degrees northeast. Intermittent mineralization consisting of galena, pyrite and chalcopyrite occur within the quartz vein. A 0.5 metre sample assayed 3.4 grams per tonne silver, 0.23 per cent copper, 0.19 per cent lead and 0.08 per cent zinc.

**BIBLIOGRAPHY** 

EMPR AR 1966-145,146 EMPR ASS RPT \*904, 1114, \*2650, 4504

EMPR GEM 1970-317

EMPR MAP \*56

GSC MAP 48-1963; 5320G

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 637

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DATE REVISED: 1986/04/26 REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 215

NATIONAL MINERAL INVENTORY:

NAME(S): **AD 1** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

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LATITUDE: 51 02 20 N NORTHING: 5657186 EASTING: 322904

LONGITUDE: 119 31 34 W ELEVATION: 1650 Metres

COMMODITIES: Silver

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Dwg. No. 4 (Assessment Report 13514).

Gold 7inc Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Magnetite

Chalcopyrite Pyrite Pyrrhotite

ASSOCIATED: Quartz

Epidote Chlorite Chlorite

Garnet Calcite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n

**Epidote** Chloritic

**Epidote** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Massive

CLASSIFICATION: Unknown

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian

**Undefined Group** 

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Gréenschist Tuff Rhvodacite Argillite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock Assay/analysis YFAR: 1984

COMMODITY

**GRADE** 

Grams per tonne

Silver Gold Copper 2.9000 3.3500 Grams per tonne 0.0400 Per cent 0.0500 Per cent

Lead Zinc

0.0080 Per cent

REFERENCE: Assessment Report 13514.

CAPSULE GEOLOGY

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites, phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary

quartz-feldspar porphyry and mafic dykes with northerly trends. Several thin and discontinuous zones of massive sulphides containing pyrrhotite, pyrite, magnetite, chalcopyrite, sphalerite, and galena are concordant with the metavolcanics and metasediments. Minor galena, chalcopyrite, and sphalerite mineralization occurs in a 17 metre wide zone within intercalated argillite and rhyolite. The mineralization is associated with silicification and chloritization

A sample of the main zone gave 3.35 grams per tonne gold, 2.9 grams per tonne silver, 0.05 per cent lead, 0.04 per cent copper,

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

CAPSULE GEOLOGY

and 0.008 per cent zinc (Assessment Report 13514).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13514, \*15772

EMPR MAP 56 EMPR OF 1999-2 GSC MAP 48-1963 GSC OF 637

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 216

NATIONAL MINERAL INVENTORY:

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900

NAME(S): **AD 18** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M03W BC MAP: UTM ZONE: 11 (NAD 83)

NORTHING: 5656469 EASTING: 325804 LATITUDE: 51 02 00 N

LONGITUDE: 119 29 04 W ELEVATION: 1380 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Occurrences, Dwg. No. 4 (Assessment Report 13514).

COMMODITIES: Silver Gold 7inc Lead Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Sphalerite Chalcopyrite Pyrrhotite Epidote Chlorite Garnét

ALTERATION: Chlorite ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

CHARACTER: Concordant CLASSIFICATION: Unknown TYPE: G06 Nora Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE
Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Phyllite

Greenschist Tuff

Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Adams Plateau TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

> SAMPLE TYPE: Rock **GRADE**

COMMODITY Silver 1.0100 0.0530 Grams per tonne Gold Grams per tonne Per cent Copper 0.1300 Per cent Lead 0.5000 Per cent Zinc 6.3700

REFERENCE: Assessment Report 13514.

**CAPSULE GEOLOGY** 

The area is underlain by the Lower Cambrian part of the Eagle Bay Formation consisting of siliceous and graphitic phyllites,  $\,$ phyllitic limestones and greenschist. The metavolcanics and metasediments generally strike northeast and dip 10 to 40 degrees northwest. The rocks are cut by Late Cretaceous or Early Tertiary quartz-feldspar porphyry and mafic dykes with northerly trends.

Several thin and discontinuous zones of massive sulphides

are concordant with the metavolcanics and metasediments.

A sample of one zone assayed 6.37 per cent zinc, 0.5 per cent lead, 0.13 per cent copper and high values for gold and

silver (Assessment Report 13514).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13514 EMPR MAP 56 EMPR OF 1999-2 GSC MAP 48-1963

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 217

NAME(S): **PAT 700** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M09W BC MAP:

LATITUDE: 51 37 50 N

LONGITUDE: 118 23 34 W ELEVATION: 900 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description and Map 85-2 (Assessment Report 14033).

COMMODITIES: Lead Silver Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po

Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 360/80W DIMENSION: TREND/PLUNGE:

COMMENTS: Direction of vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Lardeau Index

LITHOLOGY: Chlorite Schist

Sericite Quartz Schist

Greenstone Limestone

Chlorite Sericite Schist

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The area is underlain by probable Lower to Middle Paleozoic metasediments and metavolcanics of the Lardeau Group. The rocks consist of intercalated micaceous quartzite, sericite-quartz schist, chlorite-sericite schist, chlorite schist, greenstone, and limestone. A strong regional foliation strikes southeast and dips variably to the northeast.

Narrow discordant quartz veins carrying minor galena and chalcopyrite occur within chlorite schist. Two of the better mineralized veins carried silver values as well. The vein set rarely exceeds 0.5 metres in width and strikes north with steep

westerly dips.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14033 EMPR BULL 71, p. 45 EMPR EXPL 1985-C108 GSC MAP 12-1964

GSC OF 637

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MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5720868

EASTING: 403602

NATIONAL MINERAL INVENTORY:

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 218

NAME(S): CHIP - DIXIE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04W BC MAP:

LATITUDE: 51 14 50 N LONGITUDE: 119 59 24 W ELEVATION: 730 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Gossan zone, Map C84-19-3 (Assessment Report 13036).

COMMODITIES: Copper

7inc

Gold

**MINERALS** 

SIGNIFICANT: Pyrite

ALTERATION: Silica ALTERATION TYPE: Silicific'n

Limonite Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant CLASSIFICATION: Unknown TYPE: G06 No

Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 0950 x 0200

Metres

STRIKE/DIP: 100/45N

TREND/PLUNGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5681565 EASTING: 291330

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NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

903

COMMENTS: Attitude of schistosity; dimension of gossan zone.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Devonian

<u>GROUP</u>

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Tuff

Phyllite Gossan

Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

YEAR: 1985

Copper

COMMODITY

Per cent 0.0100 0.6600 Per cent

Zinc

REFERENCE: Assessment Report 13036.

CAPSULE GEOLOGY

The property is underlain by alternating units of intermediate volcanics and poorly sorted sediments of the Devonian or Mississippian age Eagle Bay Formation (unit EBF, Map 56). A sulphide bearing gossan zone, measuring 950 by 200 metres, is composed of rusty weathering and slightly friable crystal and "quartz eye" tuff, sometimes silicified and sheared. A grab sample assayed 0.02 per cent copper and 20 parts per billion gold. Also exposed in the gossan zone is a heavily mineralized outcrop of quartz-feldspar porphyry. A grab sample returned 0.66 per cent zinc and 0.01 per cent copper (Assessment Report 13036).

GRADE

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13036 EMPR EXPL 1984-119 EMPR MAP 56 EMPR OF 1999-2 GSC MAP 48-1963

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**BIBLIOGRAPHY** 

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 219

NATIONAL MINERAL INVENTORY:

NAME(S): PERCY, GIN, BIRK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

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REPORT: RGEN0100

905

LATITUDE: 51 20 40 N

NORTHING: 5692141 EASTING: 297573

LONGITUDE: 119 54 24 W ELEVATION: 1205 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole P82-1 (Assessment Report 11033).

COMMODITIES: Copper Silver Gold Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrrhotite MINERALIZATION AGE: Unknown Pyrite Chalcopyrite Sphalerite Galena

**DEPOSIT** 

CHARACTER: Vein Stratabounu
CLASSIFICATION: Volcanogenic Syngenetic
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn Disseminated Massive

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER Devonian Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Argillite Felsic Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver Grams per tonne 5.8000 0.1700 Gold Grams per tonne 7inc 0.0500 Per cent

COMMENTS: The sample width is 1 metre. REFERENCE: Assessment Report 8489.

**CAPSULE GEOLOGY** 

Mineralization on the Percy 1 claim occurs as pods and lenses of massive pyrrhotite and pyrite with minor chalcopyrite in felsic volcanic rocks (now quartz sericite schist) and as small stringers of sphalerite and galena in argillites.

A 1 metre trench sample assayed 0.41 per cent copper, 0.05 per cent zinc, 5.8 grams per tonne silver and 0.17 grams per tonne gold. A nearby drill hole intersected 0.73 per cent copper across 2.7 metres (Assessment Report 8489).

Sphalerite and galena stringers within argillite occur 900 metres south of the drill hole.

**BIBLIOGRAPHY** 

EMPR ASS RPT 3150, 5150, \*8489, \*10582, \*11033, 14388

EMPR EXPL 1971-440; 1976-E62, 1982-114; 1986-C115

EMPR FIELDWORK 1984, pp. 67-76 EMPR MAP 53; \*56

EMPR OF 1999-2; 2000-7

GSC MAP 48-1963 GSC OF 637

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): Mineral Deposits of the Adams Plateau - Clearwater area. Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral

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**BIBLIOGRAPHY** 

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 220

NATIONAL MINERAL INVENTORY:

NAME(S): COPPER CLIFF

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

907

LATITUDE: 51 19 30 N LONGITUDE: 119 55 14 W

NORTHING: 5690017 EASTING: 296520

ELEVATION: 840 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Plate 2 (Assessment Report 6879); Map No. 3 (Assessment Re-

port 70).

COMMODITIES: Copper Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Stratiform Disseminated Massive

CLASSIFICATION: Volcanogenic Syngenetic
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Undefined Group Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Limestone Argillite Phyllite Felsic Tuff Felsic Flow

Porphyritic Granodiorite Quartz Diorite Quartz Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: YFAR: 1924 Assay/analysis SAMPLE TYPE: Grab

**GRADE** COMMODITY

20,6000 Silver Grams per tonne Copper 1.5000 Per cent

REFERENCE: Annual Report, 1924.

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanic and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartzchlorite schists. The metavolcanics are intercalated with and overlain by limestone and graphitic argillite and phyllite.

The rocks trend east-west, with a prominent foliation

dipping 5 to 20 degrees to the north.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of quartz monzonite to granodiorite composition lies north of the area.

Mineralization on the Copper Cliff showing consists of a lens of massive pyrite with minor galena, sphalerite and chalcopyrite in quartz-sericite schist.

A grab sample assayed 1.5 per cent copper and 20.6 grams per tonne silver (Annual Report 1924).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

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#### **BIBLIOGRAPHY**

EMPR AR 1924-153
EMPR ASS RPT 69, 70, 3333, 6202, 6879, 14388
EMPR EXPL 1976-E61; 1978-E107; 1986-C115
EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; \*1984, pp. 67-76
EMPR MAP 53; \*56
EMPR OF 1999-2; 2000-7
GSC MAP 48-1963
GSC OF 637
GCNL #75 1986 GCNL #75, 1986 Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): \*Mineral Deposits of the Adams Plateau - Clearwater area Preto, V.A. and Schiarizza, P. (1985): Geology and Mineral Deposits of the Adams Plateau - Clearwater Region; GSA Cordilleran Section Meeting May 1985, pp. 16-1 to 16-11

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 221 NATIONAL MINERAL INVENTORY: 082M5 Cu2

NAME(S): RAINBOW

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 19 20 N NORTHING: 5689697 **EASTING: 296798** 

LONGITUDE: 119 54 59 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 3 (Assessment Report 6202).

COMMODITIES: Copper 7inc Silver Lead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Pyrite Chalcopyrite Sphalerite Galena

ALTERATION: Quartz

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Stratiform Disseminated Massive

Syngenetic TYPE: G06 Norand SHAPE: Tabular DIMENSION: 0075 x 0003 Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: 100/20S TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**GRO**UP STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Quartz Sericite Schist

Limestone Argillite Felsic Tuff Phyllite Felsic Flow

Porphyritic Granodiorite Quartz Chlorite Schist Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1976 Assay/analysis

**COMMODITY GRADE** 

Silver 13.4000 Grams per tonne Per cent Copper 3.0800 Lead 0.4000 Per cent Zinc 0.2200 Per cent

REFERENCE: Assessment Report 6202.

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanic and lesser metasedimentary rocks of the Eagle Bay Formation of Devonian to Mississippian age. The volcanics include felsic tuffs and flows, metamorphosed to quartz-sericite schists and quartz-chlorite schists. The metavolcanics are intercalated with and overlain by limestone, graphitic argillite and phyllite.

The rocks trend northwest, with a prominent foliation dipping moderately to the southwest, and locally striking

east-west with a moderate southwest dip.

Small stocks of fine-grained, porphyritic granodiorite to quartz diorite intrude the metavolcanics. The Cretaceous Baldy Batholith of quartz monzonite to granodiorite composition lies north of the area.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The Rainbow showing is exposed in cliffs and several adits on the south side of Birk Creek. A 3.5 metre sulphiderich section within generally contorted quartz-eye sericitic schist and carbonaceous quartz schist overlain by sulphidepoor sericite schist. The schists are in fault contact with limestone to the east.

The sulphides occur as massive pods, up to 3 metres thick, of pyrite with minor chalcopyrite and as disseminated pyrite, galena, sphalerite and chalcopyrite. A grab sample of a massive pyrite lens assayed 3.08 per cent copper, 0.40 per cent lead, 0.22 per cent zinc and 13.4 grams per tonne silver (Assessment Report 6202).

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EMPR ASS RPT 69, 70, 3333, \*6202, \*6879, 11033, 14388

EMPR EXPL 1976-E61; 1978-E107; 1986-C115

EMPR FIELDWORK 1978, pp. 31-37; 1979, pp. 28-36; \*1984, pp. 67-76

EMPR MAP 53; 56

EMPR OF 1999-2; 2000-7

GSC MAP 48-1963

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GCNL #75, 1986

Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986): Mineral Deposits of the Adams Plateau - Clearwater area.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 222

NATIONAL MINERAL INVENTORY:

NAME(S): CAD, RUSSEL CREEK

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M05W BC MAP:

NORTHING: 5687549 EASTING: 300299

PAGE:

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911

LATITUDE: 51 18 15 N LONGITUDE: 119 51 54 W ELEVATION: 1150 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: DDH Cad 84-1 (Assessment Report 13168).

COMMODITIES: Zinc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Galena Calcite

ALTERATION: Chlorite ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Pc

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Group Eagle Bay

LITHOLOGY: Phyllite

Andesite Argillite

Chlorite Talc Schist Limonite Quartz Limestone Mudstone Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1984 Assay/analysis

COMMODITY **GRADE** 

Silver 15.6000 Grams per tonne Per cent 0.0400 Lead 1.2000 Per cent Zinc

COMMENTS: Taken from a 10 centimetre wide vein. REFERENCE: Assessment Report 13168.

**CAPSULE GEOLOGY** 

Two diamond drill holes intersected intermediate volcanic and graphitic sedimentary rocks, dipping steeply east. The  $\,$ volcanics consist of andesites and the sediments are largely

volcanics consist of andesites and the sediments are larger, graphitic mudstones and argillites.

One drill hole (DDH CAD 84-1) intersected zinc mineralization near the top of an andesite flow, overlain by the sediments. A 1.7 metre sample assayed 0.65 per cent zinc and 2.0 grams per tonne silver.

A second hole (DDH CAD 84-2) intersected narrow quartz-carbonate veins with specks of sphalerite and galena within graphitic argillite and siltstone. A 10 centimetre wide vein assayed 1.2 per cent zinc, 15.6 grams per tonne silver and 0.04 per cent lead, and a 60 centimetre wide vein assayed 0.05 per cent zinc, 0.10 per cent lead and 3.6 grams per tonne silver. The drill hole is located 1000 metres west of the first.

The area is underlain by shallow dipping Devonian or older

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

age Eagle Bay Formation consisting of phyllite and calcareous phyllite.  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left($ 

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13168, 14397, \*16331 EMPR MAP 56

EMPR OF 2000-7

EMPR PF (Prospectus Report by N. Jorgensen, 1987) GSC MAP 48-1963

GSC OF 637

DATE CODED: 1986/05/16 DATE REVISED: 1987/12/29 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 222

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 223

NATIONAL MINERAL INVENTORY:

NAME(S): ADON V, NSM

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

913

NORTHING: 5687156 EASTING: 306488

LATITUDE: 51 18 10 N LONGITUDE: 119 46 34 W ELEVATION: 900 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Fig No. 350-3 (Assessment Report 13334).

COMMODITIES: Lead 7inc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Undefined Group Eagle Bay

LITHOLOGY: Quartz Biotite Garnet Schist

Argillite Shale Greenschist Phyllite Agglomerate Quartzite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1984 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab **GRADE** COMMODITY Silver 720,0000 Grams per tonne

0.8850 Gold Grams per tonne Per cent Copper 0.0210 0.3950 Per cent Lead Zinc 0.4000 Per cent

REFERENCE: Assessment Report 13334.

**CAPSULE GEOLOGY** 

The property is underlain by Devonian or older Eagle Bay Formation metavolcanics consisting of greenschists, phyllites, agglomerate, quartzites, limestone, quartz biotite garnet schist, argillite, and shale.

A broad northwest trending syncline cuts northwest through the

property.

A showing at the faulted contact of argillite and limestone units consists of quartz veins and lenses containing variable amounts of galena, sphalerite, chalcopyrite, and pyrite. A grab sample from this showing assayed 0.021 per cent copper, 0.395 per cent lead, 0.40 per cent zinc, 0.885 grams per tonne gold, and 720 grams per tonne silver.

A second showing apparently consists of scattered chalcopyrite,

galena, and sphalerite in quartz veins (Assessment Report 13334).

**BIBLIOGRAPHY** 

EMPR ASS RPT 4685, \*13334, 14392, \*15483

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1986-C118 EMPR MAP 56 EMPR OF 2000-7 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1986/05/20 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 223

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 224

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5754274

EASTING: 323195

REPORT: RGEN0100

915

NAME(S): CK

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 54 40 N

LONGITUDE: 119 34 14 W ELEVATION: 1150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of zone outlined by drilling (Assessment Report 8317). See also 082M137, 225-228, 245-251.

COMMODITIES: Zinc Gallium I ead Silver Copper

SIGNIFICANT: Sphalerite Pyrrhotite Galena Chalcopyrite

ASSOCIATED: Quartz Diopside Calcite Amphibole Plagioclase

Fluorite Vesuvianite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Disseminated Massive

Broken Hill-type Pb-Zn-Ag±Cu F13 Irish-type carbonate-hosted Zn-Pb

TYPE: S01 SHAPE: Tabular MODIFIER: Folded

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Paleoz. IGNEOUS/METAMORPHIC/OTHER FORMATION Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss Quartz Feldspar Homblende Gneiss

Quartzite Marble Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: CK REPORT ON: Y

> YEAR: 1980 CATEGORY: Indicated

QUANTITY: 1490365 Tonnes COMMODITY **GRADE** 

Silver 8.5000 Grams per tonne I ead 1.4000 Per cent 7inc 8.6000 Per cent

REFERENCE: George Cross News Letter November 26, 1986.

**CAPSULE GEOLOGY** 

The CK area is underlain by metasedimentary rocks of the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex consisting of quartz-feldspar-hornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble. The metasediments are cut by pegmatites and granitic intrusives.

The general structure of the area is composed of an east-facing succession folded into a broad open, east plunging synform. Locally the structures are complex resulting in dip reversals and repetition

and omission of lithologies.
A sulphide layer, up to 2.1 kilometres long and 7.8 metres wide, is confined to a calcareous horizon that trends southeast on the southern limb of the synform. The calcareous horizon consists of calc-silicate gneiss and carbonates which is structurally underlain by hornblende gneiss and amphibolite and overlain by quartz-feldspar gneiss and pelitic schist.

The sulphide layer consists of massive sphalerite and pyrrhotite, minor galena and trace chalcopyrite. Gangue quartz, diopside, calcite, amphibole and plagioclase are common and fluorite

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

and vesuvianite occur locally. A 0.6 metre chip sample assayed 21.85 per cent zinc, 4.41 per cent lead and 0.057 per cent copper (Fieldwork 1979). Drilling results gave an average grade of 11.2 per cent zinc and 1.6 per cent lead over 2.5 metres along a 600 metre strike length (Assessment Report 7213).

The CK property overlies 12 mineralized lead-zinc occurrences

The CK property overlies 12 mineralized lead-zinc occurrences where indicated reserves are 1,490,365 tonnes grading 8.6 per cent zinc, 1.4 per cent lead and 8.5 grams per tonne silver (George Cross News Letter November 26, 1986). See 082M 137, 225-228, 245-251. In 1998, V.G. Wiens prospected the claims. BWI Resources Ltd. purchased the CK claims in 1999.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*5189, \*5192, \*6909, \*7213, \*7299, \*7644, \*8317, \*16030, \*17539, 18359, 19467, 25641

EMPR BULL 80, p. 87

EMPR EXPL 1978-E116; 1979-E118; 1980-146,147

EMPR FIELDWORK \*1979, pp. 23-27

EMPR GEM 1974-99

EMPR MAP 65 (1989)

EMPR MF 1992-1

EMR MIN BULL MR 223 B.C. 79

GSC MAP 48-1963

GSC OF 637

GCNL #1(Jan.3), 1989; #131(Jul.10), 2000

EMPR OF 1998-10

EMPR OF 2000-22

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 225

NATIONAL MINERAL INVENTORY:

NAME(S): CK - MIST

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

917

LATITUDE: 51 56 10 N

NORTHING: 5757027 EASTING: 324057

LONGITUDE: 119 33 34 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Dwg. G-8355 (Assessment Report 5631).

COMMODITIES: Zinc. Silver Gold I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n

Galena Pyrrhotite Chalcopyrite

Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform Disseminated Massive

CLASSIFICATION: Sedimentary TYPE: E14 Sedin SHAPE: Tabular Syngenetic

Sedimentary exhalative Zn-Pb-Ag

STRIKE/DIP: 350/40E DIMENSION: 0030 x 0001 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Pegmatite

Amphibolite

Quartz Feldspar Hornblende Gneiss

Granitic Intrusive Quartzite Marble

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Shuswap Highland

TECTONIC BELT: Omineca TERRANE: Barkerville METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YFAR: 1979 Assay/analysis

**GRADE** COMMODITY

Silver 6.2000 0.2400 Grams per tonne Gold Grams per tonne 0.0100 Copper Per cent Lead 0.7100 Per cent 7inc 3.9800 Per cent

COMMENTS: The sample width is 1.1 metre. REFERENCE: Fieldwork 1979, pages 23-27.

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary rocks of the Shuswap Metamorphic Complex consisting of quartz-feldspar-hornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble of unknown but probable Paleozoic age. The metasediments are cut by pegmatites and granitic intrusives.

The general structure of the area is composed of an eastfacing succession folded into a broad open, east-plunging synformal structure. Locally the structures are complex resulting in dip reversals and repetition and omission of lithologies.

A sulphide layer, less than one metre wide and up to 30 metres long is confined to a calcareous horizon which trends northerly and dips 40 degrees east.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The sulphide layer consists of massive and disseminated sphalerite and pyrrhotite and minor galena and chalcopyrite. A 0.6 metre chip sample assayed 20.70 per cent zinc, 2.66 per cent lead and 0.05 per cent copper. A drill hole intersection returned 3.98 per cent zinc, 0.71 per cent lead, 0.01 per cent copper, 6.2 grams per tonne silver and 0.24 grams per tonne gold across 1.1 metres (Fieldwork 1979).

### **BIBLIOGRAPHY**

EMPR ASS RPT \*5471, \*5613, \*7644, \*8317, 16030, 25641 EMPR BULL 80, p. 87 EMPR EXPL 1975-E59; 1978-E116; 1979-E118; 1980-146,147 EMPR FIELDWORK \*1979, pp. 23-27

GSC MAP 48-1963 GSC OF 637

WWW http://www.infomine.com/ EMPR OF 2000-22

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MINFILE NUMBER: 082M 225

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 226

NAME(S): **CK - NORTH** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 56 50 N

LONGITUDE: 119 33 14 W ELEVATION: 1700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Dwg. G-8355 (Assessment Report 5631).

COMMODITIES: Zinc. I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Calcite

ALTERATION: Quartz

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary TYPE: E14 Sedi Disseminated Syngenetic

Sedimentary exhalative Zn-Pb-Ag

STRIKE/DIP: 030/45E TREND/PLUNGE: DIMENSION:

Chalcopyrite

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian

**FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Quartzite Marble Pegmatite Granitic Intrusive Amphibolite

Quartz Feldspar Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

**GRADE** 

8.9500

TERRANE: Barkerville

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1979 Assay/analysis

**COMMODITY** 

Per cent Copper 0.0500 Per cent 0.8100 Lead Per cent

Zinc

COMMENTS: The sample width is 0.6 metre. REFERENCE: Fieldwork 1979, pages 23-27.

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary rocks of the Shuswap Metamorphic Complex consisting of quartz-feldsparhornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble of unknown but probable Paleozoic age. The metasediments are cut by pegmatites and granitic intrusives.

The general structure of the area is composed of an eastfacing succession folded into a broad open, east-plunging synformal structure. Locally the structures are complex resulting in dip reversals and repetition and omission of lithologies.

A  $\overline{20}$  to 30 centimetre thick sulphide layer is on strike with a similar layer at the Mist showing (082M 225), 1300 metres to the southwest. The layer which consists of disseminated sphalerite and minor galena and chalcopyrite is confined to a calcareous horizon which strikes 30 degrees and dips 40 degrees

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PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5758249

**EASTING: 324482** 

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

southeast. A 0.6 metre chip sample assayed 8.95 per cent zinc, 0.81 per cent lead and 0.05 per cent copper (Fieldwork 1979).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*5471, \*5613, \*7644, \*8317, 16030, 25641 EMPR BULL 80, p. 87 EMPR EXPL 1975-E59; 1978-E116; 1979-E118; 1980-146,147 EMPR FIELDWORK \*1979, pp. 23-27 GSC MAP 48-1963

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 227

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - RAFT SYNFORM** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M13E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

921

NORTHING: 5759767 EASTING: 325299

LATITUDE: 51 57 40 N LONGITUDE: 119 32 34 W ELEVATION: 1620 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole location map (Assessment Report 8317).

COMMODITIES: Zinc. I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Calcite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary Disseminated Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER GROUP **FORMATION** Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Amphibolite Quartzite Marble Pegmatite Granitic Intrusive

Quartz Feldspar Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Barkerville PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1980 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Per cent 0.6800 I ead 2.1300 Per cent

Zinc COMMENTS: The sample width is 0.15 metres. REFERENCE: Assessment Report 8317.

**CAPSULE GEOLOGY** 

The area is underlain by metasedimentary rocks of the Shuswap Metamorphic Complex consisting of quartz-feldsparhornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble of unknown but probable Paleozoic age. The metasediments are cut by pegmatites and granitic intrusives.

The general structure of the area is composed of an eastfacing succession folded into a broad open, east-plunging synformal structure. Locally the structures are complex resulting in dip reversals and repetition and omission of

lithologies.

Thin bands and disseminated sphalerite and minor galena occur in silicified calc-silicate gneiss near the closing of the Raft synform. A drill hole (DDH 80-12) intersected 2 per cent combined zinc and lead over 0.45 metres (Assessment Report 8317).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7644, \*8317, 16030, 25641 EMPR BULL 80, p. 87 EMPR EXPL 1979-E118; 1980-146,147 EMPR FIELDWORK \*1979, pp. 23-27 GSC MAP 48-1963 GSC OF 637 EMPR OF 2000-22

DATE CODED: 1986/05/22 DATE REVISED: 1987/07/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 227

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 228

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - NORTH STRAT** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M13E BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NORTHING: 5750511 EASTING: 324689

PAGE:

REPORT: RGEN0100

923

LATITUDE: 51 52 40 N LONGITUDE: 119 32 49 W ELEVATION: 1600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole, location map (Assessment Report 9011).

COMMODITIES: Zinc.

I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Galena Pyrrhotite

Calcite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

Massive

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: E14 Sedi

Syngenetic

Sedimentary exhalative Zn-Pb-Ag

DIMENSION: 0400 x 0001

Metres

STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Intermittent mineralization.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian

<u>GROUP</u>

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville METAMORPHIC TYPE: Regional

GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Drill Core

Assay/analysis

YEAR: 1981

COMMODITY

<u>GR</u>ADE 1.9200

ead

Per cent

RELATIONSHIP: Post-mineralization

7inc

23,9000 Per cent

COMMENTS: The sample width is 1.0 metre. The samples were not assayed for other metals.

REFERENCE: Assessment Report 9011.

CAPSULE GEOLOGY

The area is underlain by metasedimentary rocks of the Shuswap Metamorphic Complex consisting of quartz-feldsparhornblende gneiss, amphibolite, calc-silicate gneiss and minor quartzite and marble of unknown but probable Paleozoic age. The metasediments are cut by pegmatites and granitic intrusives.

The general structure of the area is composed of an eastfacing succession folded into a broad open, east-plunging synformal structure. Locally the structures are complex resulting in dip reversals and repetition and omission of lithologies.

Massive sphalerite and minor galena and pyrrhotite occur as thin bands within flat lying siliceous calc-silicate. A number of drill holes intersected mineralization, up to 1.0metre wide, of 25.8 per cent combined lead and zinc over a 400 metre north-south trend. Faulting locally displaces the mineralization. No surface showings have been located thus far.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7423, \*8317, \*9011, 25641 EMPR EXPL 1979-E118; 1980-146,147

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK \*1979, pp. 23-27 GSC MAP 48-1963 GSC OF 637 EMPR OF 2000-22

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MINFILE NUMBER: 082M 228

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FIELD CHECK: N

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 229

NATIONAL MINERAL INVENTORY:

NAME(S): MAX, MOOSE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M13E BC MAP: LATITUDE: 51 54 10 N

NORTHING: 5753787 EASTING: 311125

PAGE:

REPORT: RGEN0100

925

LONGITUDE: 119 44 44 W ELEVATION: 1760 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of sulphide zone, Map No. 1 (Assessment Report 7812). Claim map

86.05.01 incorrectly locates the claims.

COMMODITIES: Copper Silver I ead 7inc

SIGNIFICANT: Pyrrhotite Chalcopyrite Galena Sphalerite Pyrite

ASSOCIATED: Biotite Actinolite Garnet MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Disseminated Massive

CLASSIFICATION: Sedimentary SHAPE: Tabular Syngenetic

MODIFIER: Folded

STRIKE/DIP: 150/35E DIMENSION: TREND/PLUNGE:

COMMENTS: Area of mineralized outcrop 120 by 900 metres.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER GROUP FORMATION Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Pelitic Schist

Gneiss **Biotite Schist** Muscovite Alaskite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville
METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by pelitic and psammo-pelitic schists and gneisses of the Shuswap Metamorphic Complex, intruded by biotite orthogneiss and almandine muscovite alaskite. Foliations in the metasediments range from east to northeast (100 to 148 degrees) with dips between 35 and 60 degrees north and northwest. The rocks are folded by an early set with axes plunging north to northwest at 20 to 45 degrees.

Stratiform copper-lead-zinc-silver mineralization occurs in a well defined zone up to several metres thick and traceable over 1.0 kilometre with a possible strike length exceeding 1.9 kilometres. The zone includes mineralized pyrrhotite biotite schists, massive pyrrhotite sulphide, and pyrrhotite garnet actinolite gneiss with associated chalcopyrite, galena and sphalerite. economic sulphide minerals may be present up to 2 per cent.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3935, \*7812, \*8918 EMPR EXPL 1979-117,118; 1980-146

GSC MAP 48-1963

GSC OF 637

DATE CODED: 1986/05/26 DATE REVISED: 1987/07/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 230

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5739530

EASTING: 311931

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

REPORT: RGEN0100

926

NAME(S): SI

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 46 30 N

LONGITUDE: 119 43 34 W ELEVATION: 1300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Trace of PB-ZN Mineralization (Assessment Report 9543).

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Calcite Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary Syngenetic TYPE: E14 S SHAPE: Irregular Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic-Cambrian

LITHOLOGY: Calc-silicate Monzonite Granodiorite Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

**FORMATION** 

TERRANE: Barkerville METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The dominent rocks are intrusive unfoliated granodiorite to monzonite of probable Jurassic age. These contain discrete lenses and discontinuous bands, trending north-south with dips to the west, of metasediments consisting of pelites, calc-silicates, marble and quartzite. The metasediments are probably of the Shuswap Metamorphic Complex.

Mineralization, comprising narrow lenticular bands of sphalerite and galena, is discontinuously exposed along a 1500 metre north-south trend. The mineralization appears associated with a calc-silicate unit adjacent to a massive white marble unit. The metasediments terminate abruptly to the south, probably due to tight folds within the granodiorite body.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7422, \*9543

GSC MAP 48-1963

GSC OF 637 EMPR OF 2000-22

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/05/28 DATE REVISED: 1987/07/30 FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 231

NATIONAL MINERAL INVENTORY:

NAME(S): **HARBOUR** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M11E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

927

LATITUDE: 51 36 00 N

NORTHING: 5718765 EASTING: 350251

LONGITUDE: 119 09 44 W ELEVATION: 1300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Discovery showing, Fig. 3 (Assessment Report 7688).

COMMODITIES: Uranium

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Pegmatite
TYPE: O02 Rare element pegmatite - NYF family

COMMENTS: Radioactive pegmatite area.

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Granitic Gneiss

Schist Pegmatite Syenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Bulk Sample

YEAR: 1979

COMMODITY

**GRADE** 

Uranium

Per cent 0.0140

COMMENTS: A 4.5 kilogram sample. REFERENCE: Assessment Report 7688.

**CAPSULE GEOLOGY** 

The area is underlain by granite gneisses and schists of the The area is underlain by granite gneisses and schists of the Shuswap Metamorphic Complex, cut by pegmatite pods and syenite dykes. The pegmatite lenses are commonly 10 to 15 metres in length and 1 to 2 metres thick. They parallel the schistosity of the granite and infill crosscutting fractures.

The pegmatites are commonly 6 times background in radiometric response and over 100 times background (greater than 10,000 counts per second, BGSI-SL, Scintrex) on the discovery showing.

A 4.5 kilogram sample of the radiometric surface material

A 4.5 kilogram sample of the radiometric surface material assayed 0.014 per cent uranium (Assessment Report 7688).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7688 EMPR EXPL 1979-112 GSC MAP 48-1963

GSC OF 637

Bates, D.V.; Murray, J.W.; Raudsepp, V. (1980): Royal Commission of Inquiry Health and Environmental Protection Uranium Mining Vol.,

p. 128

DATE CODED: 1986/05/29 DATE REVISED: 1987/01/12

CODED BY: LDJ REVISED BY: LDJ

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 232

NATIONAL MINERAL INVENTORY:

NAME(S): MAR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M12E BC MAP:

PAGE:

REPORT: RGEN0100

928

LATITUDE: 51 43 30 N NORTHING: 5733553 **EASTING: 323232** 

LONGITUDE: 119 33 34 W ELEVATION: 850 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Skarn showing, Plans 1 and 2 (Assessment Report 9544).

COMMODITIES: Tungsten

Copper

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Garnet Idocrase

Molybdenite Pyróxene **D**iopside

Pyrite Amphibole

Chalcopyrite Quartz

Malachite Pyrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n

Garnet Pyroxene Skarn

Molybdenum

Amphibole

Malachite

MINERALIZATION AGE: Unknown

DIMENSION: COMMENTS: Skarn. Oxidation

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement

Skarn

TYPE: K05 SHAPE: Regular

W skarn

STRIKE/DIP: 350/

TREND/PLUNGE:

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Proterozoic-Cambrian

GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Skarn

Marble Amphibolite Quartz Monzonite Quartzite

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Barkerville METAMORPHIC TYPE: Regional

RELATIONSHIP: Pre-mineralization

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1981

SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Tungsten

Per cent 0.3500

COMMENTS: The sample width is 0.14 metre.

REFERENCE: Assessment Report 9544.

**CAPSULE GEOLOGY** 

The property lies within the Shuswap Metamorphic Complex consisting of a strongly foliated assemblage of quartz mica schist, skarn, quartzite, marble and amphibolite. These rocks are intruded by pegmatites and quartz-monzonites.

Foliation and compositional layering reflect a north and northeast structural trend with steep to moderate dips to the east.

A north trending skarn, consisting of garnet-pyroxene-amphibole-quartz containing pyrite, scheelite and molybdo-scheelite, has developed in a diopside marble along the upper and lower contacts of an intruding thin (0.6 metre) coarse-grained, quartz monzonite sill. Maximum thickness of the skarn is 0.6 metres. Amphibolite overlying the marble unit is also altered with weak development of pyroxene, garnet, quartz and pyrite, with very small amounts of scheelite and molybdo-scheelite. A chip sample assayed 0.35 per cent WO3 over 0.14 metres(Assessment Report 9544).

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

Weak chalcopyrite and malachite mineralization occurs in heavily fractured and faulted fine-grained quartz monzonite, 200 metres east of the skarn showing.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*9544 EMPR OF 1991-17 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1986/05/30 DATE REVISED: 1987/07/30 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 232

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 233

NATIONAL MINERAL INVENTORY:

NAME(S): **CAMP CR**, OLD CAMP CR

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 41 00 N

LONGITUDE: 118 35 04 W ELEVATION: 750 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: From descriptions and Fig. P. 151 (Annual Report 1917).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Hadrynian

GROUP Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5727007 EASTING: 390464

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

930

LITHOLOGY: Schist

Marble Amphibolite Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

**CAPSULE GEOLOGY** 

Underlying rocks in the area belong to the Upper Proterozoic Horsethief Creek Group. They consist of calcareous pelitic

schists, amphibolites, marbles and quartzites.

Gold occurs in quartz veins around the heads of McCulloch and Graham Creeks. These veins are thought to have been the source of the placer gold. The placer gold occurs as coarse grains and nuggets close to the bedrock and as fine colours in the gravels and surface soil. The gold is also angular and

slightly porous.

**BIBLIOGRAPHY** 

EMPR AR 1895-690; 1904-115; 1917-151; 1938-E45

EMPR BULL 21, p. 23; 28, p. 53, Fig. 3 GSC MAP 12-1964

GSC OF 637

GSC P 64-32, p. 34 GSC SUM RPT \*1928, part A, p. 192

DATE CODED: 1986/03/11 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 234

NATIONAL MINERAL INVENTORY:

NAME(S): SMITH CR, GAFFNEY CR, KIRBYVILLE CR

Open Pit

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 39 00 N
LONGITUDE: 118 37 34 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: From descriptions and Fig. P. 151 (Annual Report 1917).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5723363 EASTING: 387502

REPORT: RGEN0100

931

LITHOLOGY: Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Monashee

PHYSIOGRAPHIC AREA: Monashee Mountains

**CAPSULE GEOLOGY** 

The area is underlain by metasediments of the Shuswap

Metamorphic Complex.

**BIBLIOGRAPHY** 

EMPR AR 1887-267; 1890-356,363; 1893-1043; 1894-743; 1895-691,

1908-91; \*1917-151; 1934-E34

EMPR BULL 28, p. 53, Fig. 3 GSC MAP 12-1964 GSC OF 637

GSC P 64-32

DATE CODED: 1986/03/11 DATE REVISED: 1987/01/12

CODED BY: LDJ REVISED BY: LDJ

FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 235

NATIONAL MINERAL INVENTORY:

NAME(S): FERNIE CR

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M10E BC MAP:

LATITUDE: 51 44 00 N
LONGITUDE: 118 40 04 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: From descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Proterozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5732696 EASTING: 384831

REPORT: RGEN0100

932

LITHOLOGY: Meta Sediment/Sedimentary

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Monashee

PHYSIOGRAPHIC AREA: Monashee Mountains

**CAPSULE GEOLOGY** 

The area is underlain by metasediments of the Shuswap

Metamorphic Complex.

**BIBLIOGRAPHY** 

EMPR AR 1887-267,268

EMPR BULL 28, p. 53, Fig. 3 GSC MAP 12-1964 GSC OF 637

GSC P 64-32

DATE CODED: 1986/03/11 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ

FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 236

NAME(S): CARNES CR

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 082M08E BC MAP:

LATITUDE: 51 18 00 N
LONGITUDE: 118 14 34 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 5 KM COMMENTS: From descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Devonian FORMATION Undefined Formation GROUP Lardeau

LITHOLOGY: Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

Underlying rocks are probable Lower Paleozoic Lardeau

Group.

**BIBLIOGRAPHY** 

EMPR AR 1886-203; 1887-269; 1889-267; 1895-691; 1934-E34

EMPR BULL 21, p. 23; 28, p. 53, Fig. 3
GSC MAP 12-1964
GSC OF 637
GSC P 64-32

GSC SUM RPT \*1928, part A, p. 192

DATE CODED: 1986/03/11 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 236

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5683920 EASTING: 413360

IGNEOUS/METAMORPHIC/OTHER

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 237

NATIONAL MINERAL INVENTORY:

NAME(S): GOLDSTREAM CR

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082M09W BC MAP:

Open Pit

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

934

NORTHING: 5721187 EASTING: 403031

LATITUDE: 51 38 00 N
LONGITUDE: 118 24 04 W
ELEVATION: 700 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: From descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold COMMENTS: Placer. MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Placer

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hadrynian GROUP Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Schist

Amphibolite Marble Quartzite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

**CAPSULE GEOLOGY** 

Underlying rocks in the area belong to the Upper Proterozoic Horsethief Creek Group. They consist of calcareous pelitic

schists, amphibolites, marbles and quartzites.

Gold occurs in quartz veins around the heads of McCulloch and Graham Creeks. These veins are thought to have been the source of the placer gold. The placer gold occurs as coarse grains and nuggets close to the bedrock and as fine colours in the gravels and surface soil. The gold is also angular and slightly porous.

**BIBLIOGRAPHY** 

EMPR AR 1893-1043; 1894-743; 1895-690

EMPR BULL 21, p. 23; 28, p. 53, Fig. 3 GSC MAP 12-1964

GSC OF 637

GSC P 64-32 GSC SUM RPT \*1928, part A, p. 192

DATE CODED: 1986/03/11 DATE REVISED: 1987/01/12 CODED BY: LDJ REVISED BY: LDJ

FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 238

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

935

NAME(S): KITTY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M05W BC MAP:

NORTHING: 5700425 EASTING: 295388

LATITUDE: 51 25 05 N LONGITUDE: 119 56 34 W ELEVATION: 1830 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample location (Assessment Report 14262).

COMMODITIES: Silver Tungsten Molybdenum I ead

**MINERALS** 

SIGNIFICANT: Molybdenite Galena COMMENTS: Probable minerals present. Scheelite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated

Hydrothermal

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Baldy Batholith

LITHOLOGY: Biotite Granite

Aplite Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

CAPSULE GEOLOGY

The area is underlain by biotite granite and pegmatite of the Cretaceous Baldy Batholith. Later phase aplite dykes are common and occasional zones of hydrothermal alteration are present. Fracture controlled, very fine-grained sulphide mineralization

occurs in the granite. A rock sample assayed 48.3 grams per tonne silver, 0.14 per cent molybdenum, 0.19 per cent lead and 0.05

per cent tungsten (Assessment Report 14262).

**BIBLIOGRAPHY** 

EMPR ASS RPT 14262 EMPR OF 1991-17; 2000-7 GSC MAP 48-1963 GSC OF 637

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/09/19 DATE REVISED: 1987/01/12

FIELD CHECK: N FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 239

NATIONAL MINERAL INVENTORY:

NAME(S): TIA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M12W BC MAP: LATITUDE: 51 33 35 N

UTM ZONE: 11 (NAD 83) NORTHING: 5715924

LONGITUDE: 119 51 04 W ELEVATION: 960 Metres

EASTING: 302374

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond drill hole 2, figure 1041-3 (Assessment Report 14206).

COMMODITIES: Lead Silver **Barite** 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

Sphalerite

Pyrrhotite Barite Quartz

Galena

**Barite** 

PAGE:

REPORT: RGEN0100

936

ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

Silicific'n

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Volcanogenic

Stratabound

Metres

Disseminated

Industrial Min.

Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: 090/45N

TREND/PLUNGE:

TYPE: G06 Norand SHAPE: Tabular DIMENSION: 0100 x 0030

COMMENTS: Width and probable length of mineralized horizon.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> Devonian-Mississipp. Undefined Group **FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Tuff

Quartz Sericite Schist

Chert Agglomerate Quartzite Phyllite Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

Per cent

CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

YEAR: 1985

COMMODITY Silver Barite

**GRADE** 1.5400 Grams per tonne 8.1000 Per cent 0.0060 Per cent 1.6000 Per cent

Lead Zinc
COMMENTS: The sample width is 2.0 metres. REFERENCE: Assessment Report 14206.

Copper

CAPSULE GEOLOGY

The area is underlain by metavolcanics and metasediments of the Devonian to Mississippian Eagle Bay Formation. Rocks consist of chlorite-sericite schist derived from quartz-horn-blende-feldspar crystal lithic tuffs, agglomerates and porphyritic flows, with minor cherty quartzite, dark grey phyllite, and siltstone. The units trend east and dip 50 degrees north.

3.0000

Drill holes intersected a 30 metre wide low-grade sulphide horizon associated with a well-foliated, pyritic tuff unit. The unit contains bleached, highly sericitized and silicified schist with pyrite, pyrrhotite and minor sphalerite and galena as fine disseminations and thin, discontinuous laminations.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Barite beds also occur, containing disseminated mineralization. The mineralized horizon strikes east and dips 45 degrees north.

A 12 metre intersection in drill hole #2 assayed 0.06 A 12 metre intersection in drill hole #2 assayed 0.06 per cent lead, 0.31 per cent zinc, 0.009 per cent copper and 0.65 grams per tonne silver, which contained a 1.22 metre intersection of 0.25 per cent lead, 1.47 per cent zinc, 0.01 per cent copper and 2.74 grams per tonne silver (Assessment Report 14206). Drill hole #1 intersected 2 metres of 1.6 per cent lead, 3.0 per cent zinc, 0.006 per cent copper, 1.54 grams per tonne silver and 8.1 per cent barite (Assessment Report 14206).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 13862, \*14206 EMPR EXPL 1985-110-111 EMPR OF 1986-5; 1999-2 GSC MAP 48-1963 GSC OF 637

DATE CODED: 1987/02/05 DATE REVISED: 1987/02/05 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 239

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 240

NATIONAL MINERAL INVENTORY:

NAME(S): OCCURRENCE CB 14-9

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

938

LATITUDE: 51 30 43 N LONGITUDE: 118 48 50 W ELEVATION: 1814 Metres LOCATION ACCURACY: Within 500M

NORTHING: 5708317 EASTING: 374131

COMMENTS:

COMMODITIES: Copper Iron

**MINERALS** 

Magnetite

SIGNIFICANT: Chalcopyrite
ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated CLASSIFICATION: Replacement SHAPE: Regular Hydrothermal Industrial Min. Epigenetic

STRIKE/DIP: 062/42N TREND/PLUNGE: DIMENSION:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic Monashee Complex

LITHOLOGY: Marble

Calc-silicate Gneiss

HOSTROCK COMMENTS: Occurrence is at contact of a marble and calc-silicate gneiss.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence is within the Monashee Complex on the eastern margin of the Shuswap Metamorphic Complex. It lies on the southeastern limb of the Mount Grace syncline, on the northwestern edge of Frenchman Cap Dome. Host rock is a regionally metamorphosed marble within a calc-silicate gneiss, marble, gneiss succession that overlies dominantly orthogneiss in the core of the dome. The age of the host succession is not known but is probably late Proterozoic or early Paleozoic.

The occurrence consists of magnetite and minor chalcopyrite, marked by conspicuous malachite staining, in a very rusted zone 20 centimetres thick. A small pit indicates previous exploration of the zone.

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EMPR BULL \*80, p. 84 GSC MAP 12-1964

GSC OF 637

DATE CODED: 1987/08/20 CODED BY: TH REVISED BY: FIELD CHECK: Y DATE REVISED: / / FIELD CHECK:

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 241

NATIONAL MINERAL INVENTORY:

NAME(S): OCCURRENCE CB 16-2

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

939

LATITUDE: 51 31 49 N LONGITUDE: 118 44 15 W ELEVATION: 2164 Metres NORTHING: 5710227 EASTING: 379479

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Calcite Pyrrhotite Magnetite Quartz Pyroxene

MINERALIZATION AGE: Unknown

Garnet Amphibole

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Replacement Disseminated

Epigenetic DIMENSION:

Hydrothermal Industrial Min. STRIKE/DIP: 065/30S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER Monashee Complex STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** 

LITHOLOGY: Marble

Gneiss

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Monashee Mountains

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence is within the Monashee Complex on the eastern margin of the Shuswap Metamorphic Complex. It is within a mixed paragneiss succession above core gneisses north of Frenchman Cap Dome Mineralization is comprised of pods of magnetite, pyrrhotite and chalcopyrite with a hornblende, pyroxene, garnet, fayalite matrix in

coarsely crystalline white marble.

**BIBLIOGRAPHY** 

EMPR BULL \*80, p. 84 EMPR FIELDWORK 2000, pp. 85-114

GSC MAP 12-1964 GSC OF 637 GSC P 71-29

DATE CODED: 1987/08/20 CODED BY: TH FIELD CHECK: Y DATE REVISED: // REVISED BY: FIELD CHECK:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 242

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5708431 EASTING: 374519

REPORT: RGEN0100

940

NAME(S): OCCURRENCE CB 14-12

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10W BC MAP:

LATITUDE: 51 30 47 N LONGITUDE: 118 48 30 W ELEVATION: 1859 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Calcite Malachite ALTERATION: Malachite Hornblende MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Disseminated

CLASSIFICATION: Industrial Min. SHAPE: Regular

DIMENSION: STRIKE/DIP: 060/40W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** 

Proterozoic Monashee Complex

LITHOLOGY: Marble Gneiss

HOSTROCK COMMENTS: Occurrence is within a coarse grained calcite marble.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The occurrence is within the Monashee Complex on the eastern margin of the Shuswap Metamorphic Complex. It lies on the southeastern limb of the Mount Grace syncline, on the northwestern edge of Frenchman Cap Dome. Host rock is a coarsely crystalline marble within a calc-silicate gneiss, marble, gneiss succession that overlies dominantly orthogneiss in the core of the dome. The age of the host succession is not known but is probably late Proterozoic or early Paleozoic.

The occurrence is comprised of a 15 to 20 centimetre thick interval of minor chalcopyrite and magnetite, associated with

hornblende

**BIBLIOGRAPHY** 

EMPR BULL \*80, p. 84 GSC MAP 12-1964 GSC OF 637

GSC P 71-29

DATE CODED: 1987/08/20 CODED BY: TH REVISED BY: FIELD CHECK: Y DATE REVISED: / / FIELD CHECK:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 243

NATIONAL MINERAL INVENTORY:

NAME(S): AXL

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

941

LATITUDE: 51 02 00 N LONGITUDE: 119 37 44 W ELEVATION: 1875 Metres

NORTHING: 5656821 EASTING: 315678

MINING DIVISION: Kamloops

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

Pyrrhotite Sphalerite Chalcopyrite

SIGNIFICANT: Pyrite ALTERATION: Chlorite ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound

CLASSIFICATION: Volcanogenic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Tabular

DIMENSION: 0500 x 0002 Metres STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Eagle Bay

LITHOLOGY: Rhyodacite Tuff

Rhyodacite Flow Chert Diorite

Granodiorite Quartz Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

The property is underlain by northeast trending, folded and metamorphosed mafic and intermediate volcanics, volcanoclastics and sediments of the Late Devonian to Early Mississippian age Eagle Bay Formation. These rocks are intruded by dykes and stocks of diorite, diabase, granodiorite and quartz porphyry.

The metavolcanics comprise a lower unit of mafic flows and breccias of basaltic composition, intercalated with detrital sediment, chert lenses and intermediate volcanic rocks. These rocks are overlain by intermediate volcanic flows, breccias, and volcano-clastics of andesitic to rhyodacite composition.

Structure in the area is dominated by a northeasterly trending overturned synform cut by several north trending right lateral faults. A 500 metre strike length of stratabound low grade massive sulphide mineralization occurs in banded, grey-green rhyodacite tuff. Mineralization consists of pyrite, pyrrhotite, sphalerite and trace chalcopyrite. A 1986 drill hole (#29) intersected 1.34 metres assay ing 1.43 per cent zinc, 0.39 per cent lead, 0.06 per cent copper, 6.17 grams per tonne silver and 0.10 grams per tonne gold (Assessment Report 15609).

The mineralized zone varies from 0.3 to 1.2 metres wide and up to 300 metres long on surface. Surface samples assay up to 107.6 grams per tonne silver, 17.75 per cent lead, and 6.78 per cent zinc. Several units contain pyrite, pyrrhotite, chalcopyrite,

sphalerite, and galena mineralization.

**BIBLIOGRAPHY** 

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EMPR MAP 86

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1986/04/14 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1987/07/30 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 082M 243

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082M 244

NATIONAL MINERAL INVENTORY: 082M4 Ag4

NAME(S): **SAMATOSUM**, SAMATOSUM MOUNTAIN, SILVER

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

943

LATITUDE: 51 08 40 N NORTHING: 5669641 EASTING: 303492

LONGITUDE: 119 48 34 W ELEVATION: 1520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Open pit, on the northern slopes of Samatosum Mountain, 25 kilometres

Gold

Silicific'n

east of Barriere and 60 kilometres north of Kamloops (Friesen, 1990).

COMMODITIES: Silver Antimony Lead Copper

**MINERALS** 

SIGNIFICANT: Tetrahedrite Chalcopyrite Sphalerite Galena ASSOCIATED: Quartz ALTERATION: Sericite Dolomite Muscovite Silica Dolomite

**Fuchsite** 

**Pyrite** 

Pyrite

ALTERATION TYPE: Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: G06 No Stratabound Massive

Hydrothermal

105 Noranda/Kuroko massive sulphide Cu-Pb-Zn Polymetallic veins Ag-Pb-Zn±Au

7inc

SHAPE: Tabular DIMENSION: 500 x 100 x 5

Metres STRIKE/DIP: TREND/PLUNGE:

**Eagle Bay** 

COMMENTS: Samatosum deposit; dips 30 degrees northeast.

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic **Undefined Group** 

LITHOLOGY: Altered Sediment/Sedimentary

Cherty Sediment/Sedimentary Altered Argillite Altered Wacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The Samatosum deposit is located in structurally complex metasedimentary and metavolcanic rocks of the Paleozoic (Lower Cambrian and older(?) to Mississippian) Eagle Bay Assemblage (Formation). The assemblage has a complex deformational history involving multiple stages of thrust faulting and folding during the Jura-Cretaceous which produced strongly foliated and overturned rocks trending northwest and dipping northeast. These Paleozoic rocks are intruded by mid-Cretaceous granodiorite and quartz monzonite (such as the Baldy batholith about 30 kilometres to the north of the deposit), and Early Tertiary quartz-feldspar porphyry, basalt and lamprophyre dykes. These are all locally overlain by Miocene plateau lavas, now

represented in the area by occasional erosional remnants.

The deposit area can be divided into several northwest trending, northeast dipping units. From northeast to southwest these are: 1) the Tshinikan Limestone which forms steep, massive landforms dominating the area; 2) mixed sediments consisting of interbedded cherts and argillite; 3) mafic volcanics; 4) the "Mine Series" of rocks which consist of a zone of more mixed sediments and mafic volcanics, with minor felsic to intermediate volcanics, which form the host stratigraphy for both the Samatosum and Discovery or Rea Gold zone (082M 191) deposits; and finally 5) a thick unit of argillites and wackes and a package of felsic rocks which lie in the structural footwall of the Mine Series.

The generalized ore stratigraphy reveals the apparent stratabound nature of the orebody within the hanging wall portion of the heavily strained and highly altered Mine Series rocks. The orebody lies near the interface of altered mixed sediments and

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

predominantly altered argillites/wackes. Original terms such as "sericitic tuffs" for the mixed sediments, and "muddy tuffs" for the altered argillite/wackes are now largely out of favour as it is really alteration products that one sees rather than original lithologies (Friesen, 1990).

The mixed sedimentary unit (SERT) is characterized by a strong yellow to white sericitic content, interbedded with up to 30 per cent cherty/quartz lenses. The altered argillites (MUT) are characterized by light silvery grey muscovite and sericite. They may also often locally contain up to 60 per cent very fine-grained pyrite and host low grade values of base and precious metals. Both units represent altered lithologies; their protoliths were probably variations of an original argillite/wacke/tuff sequence.

Both the SERT and MUT lie structurally below a thick unit of chloritic mafic volcanics, which in the deposit area are most commonly tuffaceous to lapilli in texture; but with an occasional pillowed component.

Both the Samatosum and original Discovery zone or Rea Gold zone (082M 191) 500 metres to the southwest are contained in a very similar stratigraphy: within a package of mixed sediments, argillites and their sericitic equivalents of SERT and MUT, and both are structurally overlain by mafic pyroclastics. There is much speculation regarding their structural and genetic associations. There is a strong suggestion of repetition by folding and/or faulting (which supports a long favoured theory of a thrust fault zone located between the deposits). Alternatively, but currently discounted, the two deposits may exist within similar stratigraphic cycles overprinted by a crosscutting alteration package (Friesen, 1990).

overprinted by a crosscutting alteration package (Friesen, 1990).

The Samatosum deposit is an early, highly deformed quartz vein system containing massive to disseminated components of tetrahedrite, sphalerite, galena and chalcopyrite hosted in structurally complex wallrocks. The upper portion of the orebody is tabular, averages about 5 metres in thickness, has a northwesterly strike length of about 500 metres and dips at an average of 30 degrees northeasterly for 100-150 metres. In the northern half of the deposit the tabular nature of the orebody gives way downdip to an apparent synformal structure, which is currently interpreted to be caused by slicing and imbrication by local overturning and thrust faulting. The northern half of the orebody has a northwesterly plunge of about 20 degrees, whereas the southern half displays a very slight plunge to the southeast (phase 2 folding?).

Tetrahedrite is the most valuable mineral in the ore zone, followed by sphalerite, chalcopyrite and galena. The tetrahedrite contains 36 per cent copper, 25 per cent sulphur, 23 per cent antimony, 5 per cent zinc, 4 per cent silver, 3 per cent arsenic and 2 per cent iron. Tetrahedrite appears to be the most uniformly distributed, while the sphalerite, galena and chalcopyrite often appear more erratically distributed in the northern end of the orebody as semimassive to massive lenses within the quartz vein host; perhaps indicating more than one mineralizing episode. It is important to note to note that whereas chalcopyrite, sphalerite and galena can be present in minor amounts in virtually any quartz vein occurrence throughout the property; tetrahedrite has so far been rarely found outside the immediate ore zone (Friesen, 1990).

The principal ore-related gangue minerals are quartz (30 per cent), dolomite (19 per cent) and pyrite (11 per cent).

Sericite and muscovite are by far the dominant alteration minerals in the Mine Series rocks and are thought to be a deformational product of the original ore-related alteration. All units from the lower portion of the mafics through the entire Mine Series stratigraphy are sericitic. Muscovite/sericite alteration fronts producing MUT commonly crosscut bedding and foliation, often leaving behind unaltered argillite/wacke remnants.

Other significant alteration in the deposit area includes: silicification or silica flooding of portions of wallrock surrounding the orebody (eg. many original "quartzites" and black cherts are now believed to be silicified MUT and argillites); dolomite, much more intense than previously believed, the bulk of which is probably a late-stage fault-related overprint; pyritization, as a replacement feature of lapilli in the mafic pyroclastics; and the green mica fuchsite, so far almost entirely restricted to a several metre thick occurrence associated with the argillites/MUT along the immediate

sheared footwall portion of the ore zone.

Underground mineable reserves at Samatosum are 80,278 tonnes grading 1.2 per cent copper, 2.9 per cent zinc, 1.7 per cent lead, 1021.5 grams per tonne silver and 1.7 grams per tonne gold (Northern Miner - August 5, 1991). Both open pit and underground reserves are expected to be exhausted by October 1992. The underground reserve is the strike extension of the open pit deposit and extends

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

approximately 198 metres beyond the pit wall before it is structurally terminated.

The Samatosum deposit was discovered in 1986. During 1988 a feasibility study determined the deposit could be mined economically by open pit methods, despite an unusually high 25:1 waste-to-ore stripping ratio. Mine stripping began in March 1989; ore production and milling began in May 1989; shipments began in June 1989.

Mining ceased in July 1992 and milling ceased in September 1992.

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CMH 1987-88,
GCNL #4,#57,#131,#135,#153,#172,#177,#210, 1986; #8,#76,#96,#108,
#111,#112,#116,#117,#118,*#133, 1987; #33,#70,#78,#207, 1988;
      #1(Jan.3),#56(Mar.21),#123(June 27),#205(Oct.25), 1989;
#19(Jan.26),#52(Mar.14),#90(May 9),#179(Sept.17),#186(Sept.26)
      1990; #38(Feb.22), #52(Mar.14), #68(Apr.9), #127(Jul.3), #147(Jul.31),
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     26, May 11, 1987; March 7, May 2,23, Oct.24, 1988; June 5,12, Nov.6,13, 1989; Feb.6, Mar.19, Sept.10, 1990; Apr.1,15, May 6,
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DATE CODED: 1987/10/01 DATE REVISED: 1991/11/12 CODED BY: TH REVISED BY: GO FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 245

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - EAST** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

946

NORTHING: 5755080 **EASTING: 322267** 

LATITUDE: 51 55 05 N LONGITUDE: 119 35 04 W ELEVATION: 1110 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrrhotite Galena Plágioclase

7inc

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Concordant

Disseminated

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Cambrian

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

**BIBLIOGRAPHY** 

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GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ DATE REVISED: 1987/07/23

FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 246

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - SPRING** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M13E BC MAP:

PAGE:

REPORT: RGEN0100

947

LATITUDE: 51 53 46 N LONGITUDE: 119 33 09 W ELEVATION: 1370 Metres

NORTHING: 5752563 **EASTING: 324378** 

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030)

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrrhotite Plágioclase

Galena

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Disseminated Concordant

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

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GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/07/23 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 247

NATIONAL MINERAL INVENTORY:

NAME(S): CK - NO - NAME BOULDER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 53 23 N LONGITUDE: 119 33 26 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030)

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrrhotite Plágioclase Galena

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Concordant Syngenetic

Disseminated

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Cambrian

FORMATION

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5751864 EASTING: 324028

REPORT: RGEN0100

948

Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16030, 25641

GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ DATE REVISED: 1987/07/23

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 248

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - AUTUMN** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M13E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

949

LATITUDE: 51 52 34 N

NORTHING: 5750405 **EASTING: 322426** 

LONGITUDE: 119 34 47 W ELEVATION: 1130 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030)

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrrhotite Galena

Plágioclase

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Disseminated Concordant

Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16030, 25641

GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/07/23 FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 249

NATIONAL MINERAL INVENTORY:

NAME(S): CK - COM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 51 55 N LONGITUDE: 119 34 46 W ELEVATION: 1065 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, Figure 4 (Assessment Report 16030).

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrrhotite Plágioclase Galena

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Concordant

Disseminated

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic-Cambrian

FORMATION

**RELATIONSHIP:** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5749200 EASTING: 322403

REPORT: RGEN0100

950

Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

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**BIBLIOGRAPHY** 

EMPR ASS RPT \*16030, 25641

GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ DATE REVISED: 1987/07/23

MINFILE NUMBER: 082M 249

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 250

NATIONAL MINERAL INVENTORY:

NAME(S): **CK - HORNE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 082M13E BC MAP:

NORTHING: 5748083 EASTING: 323359

PAGE:

REPORT: RGEN0100

951

LATITUDE: 51 51 20 N

LONGITUDE: 119 33 54 W ELEVATION: 1160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030)

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrrhotite Galena

Plágioclase

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Disseminated Concordant

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER GROUP FORMATION Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss

Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

**BIBLIOGRAPHY** 

EM EXPL 2001-33-43 EMPR ASS RPT \*16030, 25641

GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 251

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5757598 EASTING: 325415

REPORT: RGEN0100

952

NAME(S): **CK - POPOUT** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M13E BC MAP:

LATITUDE: 51 56 30 N LONGITUDE: 119 32 24 W ELEVATION: 1430 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Occurrence, figure 4 (Assessment Report 16030)

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrrhotite Plágioclase

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Disseminated Concordant

Galena

Syngenetic TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic-Cambrian Shuswap Metamorphic Complex

LITHOLOGY: Biotite Gneiss Marble

Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by strongly foliated and lineated metasedimentary gneiss, schist, calc-silicate, amphibolite and marble of the Shuswap Metamorphic Complex. Foliation and bedding attitudes commonly trend 140 to 180 degrees and dip steeply east. These rocks are intruded by dykes and sills of pegmatite.

Stratiform lead-zinc mineralization is conformable and continuous

over a 20 kilometre strike length. Rocks often associated with the mineralization include biotite gneiss, calc-silicate and marble. Sulphide mineralization includes sphalerite, pyrrhotite and minor galena. Gangue minerals include quartz and plagioclase and minor fluorite, augite, diopside, calcite and sphene.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16030, 25641

GSC MAP 48-1963 EMPR OF 2000-22

DATE CODED: 1987/07/23 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/07/23 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 252

NATIONAL MINERAL INVENTORY:

Neodymium

NAME(S): MT. GRACE CARBONATITE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M07W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

953

LATITUDE: 51 26 10 N NORTHING: 5699893 EASTING: 373574

LONGITUDE: 118 49 08 W ELEVATION: 1850 Metres LOCATION ACCURACY: Within 500M

COMMENTS: One location of carbonatite which forms approximately a 60 kilometre

long zone.

COMMODITIES: Niobium Cerium Lanthanum

SIGNIFICANT: Pyrochlore Apatite Zircon ASSOCIATED: Calcite Amphibole

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Magmatic TYPE: N01 C Igneous-contact Carbonatite-hosted deposits

SHAPE: Tabular MODIFIER: Folded

COMMENTS: Dimension is approximately 60 kilometres by 1-20 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Proterozoic Monashee Complex

LITHOLOGY: Carbonatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional Monashee

RELATIONSHIP: Post-mineralization GRADE: Amphibolite

COMMENTS: Extrusive carbonatite in Frenchman Cap mantling gneisses.

CAPSULE GEOLOGY

The area lies within the Monashee Complex along the western margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks, locally intruded by a suite of alkalic gneiss. The metasediments consist of a basal quartzite unit overlain by a sucession of interbanded pelitic schists, pelitic gneiss, calc-silicate and marble.

Two types of carbonatites occur within the calc-silicate unit. Type I is concordant within quartz-biotite-gneiss, quartz-amphibole gneiss and quartzite. It trends northwest for 3 kilometres, and dips to the southwest, and varies from 20 to 200 metres in width. The carbonatite averages 60 to 80 per cent calcite, 10 to 30 per cent apatite with accessory biotite, amphibole, sphene and minor pyrrhotite, pyrite, sphalerite, chalcopyrite, molybdenite, pyrochlore and monazite.

Type II, occurring 2 kilometres to the west, is concordant with a white marble unit and other metasedimentary layers and has been interpreted to be a carbonatite tuff.

This is another location for an example of Type II carbonatite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11639 EMPR BULL 80

EMPR EXPL 1983-161

EMPR EAPL 1983-101

EMPR FIELDWORK 1981, pp. 194,199; \*1985, pp. 69-87

EMPR OF \*1987-17, pp. 55-59; 1994-8

CJES V. II, pp. 304-318 (McMillan, W.J., and Moore Jr., J.M. (1974))

ECON GEOL \*Vol. 81, 1986, pp. 1374-1386

DATE CODED: 1987/10/14 DATE REVISED: 1999/07/28 CODED BY: JP REVISED BY: LDJ FIELD CHECK: Y FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 253

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

NORTHING: 5686258 EASTING: 388420

REPORT: RGEN0100

954

NAME(S): PERRY RIVER CARBONATITE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M07E BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 51 19 00 N

LONGITUDE: 118 36 04 W ELEVATION: 2200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: One of a number of small carbonatite occurrences.

COMMODITIES: Niobium Cerium Neodymium Lanthanum

**MINERALS** 

SIGNIFICANT: Pyrochlore Apatite 7ircon ASSOCIATED: Calcite Amphibole

COMMENTS: Alteration type is associated with fenite.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Magmatic TYPE: N01 C Igneous-contact

Carbonatite-hosted deposits

SHAPE: Tabular MODIFIER: Folded DIMENSION: 0500 x 0010

Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Proterozoic Monashee Complex

LITHOLOGY: Carbonatite Sovite

Mafic Fenite Svenitic Fenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite COMMENTS: Intrusive carbonatite.

CAPSULE GEOLOGY

The area lies within the Monashee Complex along the western margin of the Frenchman Cap Dome. The core of the dome is composed of a mixed paragneiss and orthogneiss succession of probable Aphebian age, and is mantled by an unconformably overlying succession of metasedimentary rocks, locally intruded by a suite of alkalic gneiss. The metasediments consists of a basal quartzite unit overlain by a succession of interbanded pelitic schists, pelitic gneiss, calc-silicate and marble.

Two types of carbonatites occur within the calc-silicate unit. Type I is concordant within quartz-biotite-gneiss, quartz-amphibole gneiss and quartzite. It trends northwest for 3 kilometres, and dips to the southwest, and varies from 20 to 200 metres in width. The carbonatite averages 60 to 80 per cent calcite, 10 to 30 per cent apatite with accessory biotite, amphibole, sphene and minor pyrrhotite, pyrite, sphalerite, chalcopyrite, molybdenite, pyrochlore and monazite. The carbonatites

are sovites and are associated with mafic and syenitic fenites. Type II, occurring 2 kilometres to the west, is concordant with a white marble unit and other metasedimentary layers and has

been interpreted to be a carbonatite tuff.

This is another example of Type I carbonatite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11639

EMPR BULL 80

EMPR EXPL 1983-161

EMPR FIELDWORK 1981, pp. 194,199; 1985, pp. 69-88

EMPR OF \*1987-17, pp. 53-54 CJES VOL. II, pp. 304-318 (McMillan, W.J., and Moore Jr., J.M.

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

(1974)) ECON GEOL \*Vol. 81, 1986, pp. 1374-1386

DATE CODED: 1987/10/14 CODED BY: JP FIELD CHECK: Y REVISED BY: FIELD CHECK: Y

MINFILE NUMBER: 082M 253

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 254

NATIONAL MINERAL INVENTORY:

NAME(S): ORO VIEJO DOLOMITE

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

NTS MAP: 082M10E BC MAP:

PAGE:

REPORT: RGEN0100

956

LATITUDE: 51 39 27 N

NORTHING: 5724156 EASTING: 389384

LONGITUDE: 118 35 57 W ELEVATION: 914 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample 2, 1.2 kilometres south of Goldstream River (Assessment Report

COMMODITIES: Dolomite

**MINERALS** 

SIGNIFICANT: Dolomite ASSOCIATED: Calcite MINERALIZATION AGE: Lower Cambrian

**DEPOSIT** 

CHARACTER: Stratiform Massive Breccia CLASSIFICATION: Sedimentary TYPE: R10 Dolor Metamorphic Industrial Min. Dolómite

DIMENSION: 4000 x 1500 x 548 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Deposit strikes north-northwest, dips gently west.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Badshot

Lower Cambrian DATING METHOD: Fossil

LITHOLOGY: Dolomite Limestone Phyllite

Carbonaceous Slate

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: ORO VIEJO DOLOMITE REPORT ON: Y

> YEAR: 1988 CATEGORY: Inferred

QUANTITY: 25000000 Tonnes

COMMODITY **GRADE** Per cent Dolomite 98.0000

COMMENTS: Zone of high purity, estimated to contain 300 million tonnes, with more than 25 million tonnes grading at least 98 per cent dolomite.

REFERENCE: Assessment Report 18028, page 11.

granitic masses.

**CAPSULE GEOLOGY** 

The Oro Viejo dolomite occurrence outcrops on both sides of the Goldstream River near its confluence with the Columbia River,

approximately 78 kilometres north-northwest of Revelstoke.

The region is underlain by a northwest trending succession of metamorphic rocks of the Lower Proterozoic Horsethief Creek Group, the Lower Cambrian Badshot Formation and the Lower Paleozoic Hamill This sequence is intruded by post-Cambrian and Lardeau groups.

A body of dolomite comprising the Badshot Formation trends north-northwest for 7 kilometres, crossing the Goldstream River a kilometre east of the Columbia River. The unit is underlain by banded light grey to dark grey limestone of the Horsethief Creek Group and overlain by silver grey phyllites and carbonaceous slate of the Lardeau Group. The entire succession dips gently to the west. An average foliation strikes 090 degrees an dips 36 degrees north. Local thickening of the Badshot Formation may be caused by a decollement.

The deposit consists of snow white, microcrystalline, earthy to

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

chalky, massive dolomite displaying zones of tectonic brecciation along strike. A zone of high purity dolomite (95 to 99 per cent dolomite) occurs over a 4-kilometre strike length with a width of 500 metres in the north and over 1500 metres in the south. Outcrops at various elevations, suggest that the high purity zone extends down dip for a vertical depth of at least 548 metres. This zone is estimated to contain 300 million tonnes of dolomite over an average width of 1000 metres to a depth of 30 metres, with over 25 million tonnes grading at least 98 per cent dolomite (Assessment Report 18028, p. 11). Twenty-seven grab samples, collected in 1987 over a 7.3-kilometre strike length, displayed the following average and range in compositions (in per cent) (Assessment Report 16604, p.

Average From To 29.94 49.66 То

33.98 18.15 0.41 0.15 0.21 0.024 0.023 0.013 4.59 21.72 0.04 4.06 0.02 1.28 0.09 0.60 SiO2 Al2O3 Fe203 0.006 0.090 MnO TiO2 0.100 Na20 0.003 0.003 0.001 0.308 47.15 K20 0.018 Ig. Loss 46.21 0.308

Ig. Loss 46.21 42.25 47.15

Nineteen of the samples contained greater than 21 per cent MgO and seventeen contained less than 0.10 per cent SiO2. Of an additional thirteen samples collected in 1988, nine contained greater than 20 per cent MgO (Assessment Report 18028).

This property was mapped and sampled by R.G. Komarechka in 1987 and by G.C. Hurlburt in 1988.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*16604, \*18028 EMPR BULL 71 GSC MAP 12-1964 GSC OF 481 GSC P 64-32

DATE CODED: 1988/02/18 DATE REVISED: 1989/09/21 CODED BY: PMB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082M 254

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 255

NATIONAL MINERAL INVENTORY:

NAME(S): HIREN LAKE, MOUNT COPELAND

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M01W BC MAP:

LATITUDE: 51 07 00 N

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

PAGE:

REPORT: RGEN0100

958

LONGITUDE: 118 26 04 W ELEVATION: 1370 Metres LOCATION ACCURACY: Within 500M

NORTHING: 5663777 EASTING: 399600

**FORMATION** 

COMMODITIES: Nepheline Syenite

**MINERALS** 

SIGNIFICANT: Nepheline ASSOCIATED: Amphibole Orthoclase Albite Pvroxene Magnetite MINERALIZATION AGE: Unknown

COMMENTS: Southern flank of Mount Copeland.

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Industrial Min.

TYPE: R13 Nepheline syenite

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE GROUP

Proterozoic ISOTOPIC AGE: 770 Ma

DATING METHOD: Zircon MATERIAL DATED: Zircon

LITHOLOGY: Nepheline Syenite Gneiss

HOSTROCK COMMENTS: Dating by Okulitch, et al, 1981.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional PHYSIOGRAPHIC AREA: Monashee Mountains

RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Nepheline syenite and syenite gneisses crop out in a 6 kilometre band on the southern blank of Mount Copeland, 15 kilometres northwest of Revelstoke. The rock consists of orthoclase with subordinate nepheline and albite and small amounts of amphibole, pyroxene and magnetite. It has a banded texture and contains both fine and coarsegrained zones. The Mount Copeland syenites are exposed in a large antiformal structure and have been subjected to more than one phase of folding. The contacts appear gradational. Three main alkaline rock units have been defined; a basal nepheline syenite gneiss, overlain by alkaline amphibolite, which is in turn overlain by calcareous and saturated syenites. The alkaline rocks intrude micaceous quartzites and calcsilicate gneisses of the Frenchman Cap autochthonous cover sequence. The metasedimentary succession has been correlated with a similar succession in the Perry River and Mount Grace areas. Based on these correlations, it appears that the gneisses at Mount Copeland lie stratigraphically beneath the Mount Grace extrusive carbonatite.

Thirty-four samples collected from the deposit were analysed with

the following results:

Major oxides	Weight (per cent)
SiO2	51.30 - 61.26
A1203	17.27 - 24.38
Fe203	0.84 - 8.21
Ca0	0.04 - 9.61
Na20	2.74 - 8.76
K20	7.49 - 10.14

These analyses indicate the rocks are a potential source of feldspathic material although most samples are high in iron. To better evaluate the material, two 20 kilogram samples, low in iron, were sent to CANMET for processing. At CANMET they were crushed, run through a dry magnetic separator (-10 + 100 mesh) and a mica-iron float produced with the following results:

Magnetic Separation

# GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

(Weight, per cent)	Magnetic	Nonmagnetic	-100 Mesh
Sample 1	40.0	51.0	9.0
Sample 2	23.4	66.3	10.3

Flotation			Concentrat	te/float tails
(Weight, per cent)	Slimes	Mica-Iron	Magnetic	Nonmagnetic
Sample 1	15.6	27.9	19.1	36.5
Sample 2	20.0	3.8	28.6	46.6
_,				1

The nonmagnetic concentrates were then analysed with the

following results:

Major oxides	Separation		Floatat	Floatation	
(Weight, per cent)	1	2	1	2	
SiO2	56.20	47.1	54.80	50.70	
Al203	19.20	20.50	18.30	21.10	
Fe203	0.50	1.23	0.19	0.41	
Ca0	1.27	1.60	0.98	0.80	
Na20	6.58	6.02	6.44	5.48	
K20	8.40	9.45	8.76	10.57	

Full liberation is achieved at less than 100 mesh. Samples processed by CANMET contain high levels or iron and titanium which could not be reduced below 0.19 per cent and 0.40 per cent respectively. This makes it difficult to produce nepheline syenite meeting market specifications.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1978, pp. 25-30; \*1988, pp. 485-486 EMPR OF \*1987, pp. 59-62 GSC BULL 239 GSC P 80-1A, pp. 47-51; 81-1A, pp. 33-36 EG Vol. 81, pp. 1374-1386

CODED BY: GVW REVISED BY: LDJ DATE CODED: 1989/03/31 DATE REVISED: 1989/12/11

MINFILE NUMBER: 082M 255

PAGE:

FIELD CHECK: Y

FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 256

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5690220 EASTING: 379934

REPORT: RGEN0100

960

NAME(S): RATCHFORD CREEK KYANITE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M07E BC MAP:

LATITUDE: 51 21 02 N LONGITUDE: 118 43 27 W ELEVATION: 1460 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Area 4, Figure 4, Open File 1988-26.

COMMODITIES: Kyanite Sillimanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Garnet Sillimanite **Biotite** 

MINERALIZATION AGE: Mesozoic

**DEPOSIT** 

CHARACTER: Layered Stratabound Disseminated Industrial Min.

CLASSIFICATION: Métamorphic Kyanite-sillimanite schists TYPE: P02 SHAPE: Tabular

MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Proterozoic Monashee Complex

LITHOLOGY: Kyanite Sillimanite Biotite Schist

Sillimanite Biotite Garnet Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

Kyanite has been noted (Wheeler, 1965) in schists and gneisses south of Ratchford Creek and west of the headwaters of Perry River. In that area, kyanite occurs as crystals from 1 to 2 centimetres in length. Sillimanite is also present in some strata; fibrolite intergrown with biotite can comprise in excess of 10 per cent of the rock.

The schists and gneisses which outcrop in this area are part of the autochthonous cover succession, mantling the Frenchman Cup Dome.

**BIBLIOGRAPHY** 

EMPR OF 1988-26, p. 11 GSC P \*64-32, p. 37 Placer Dome File

\*Wheeler, J.O. (1965): Big Bend Map Area, British Columbia (82M, E1/2); Geological Survey of Canada Paper 64-32, 37 pages

DATE CODED: 1988/03/29 DATE REVISED: 1992/08/21 CODED BY: JP REVISED BY: DEJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 257

NATIONAL MINERAL INVENTORY:

NAME(S): ORO VIEJO TALC, BROKEN PICK

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082M10E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

961

LATITUDE: 51 39 03 N

NORTHING: 5723425 EASTING: 388906

LONGITUDE: 118 36 21 W ELEVATION: 991 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Talc outcrop along Highway 23, 380 metres southeast of the Goldstream

River (Assessment Report 16604).

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc

ASSOCIATED: Magnesite Chalcopyrite Chlorite Serpentine Pyrite

COMMENTS: Minor pyrite and chalcopyrite just to the north and south.

ALTERATION: Chlorite Serpentine

ALTERATION TYPE: Chloritic Serpentin'zn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound Massive

CLASSIFICATION: Metamorphic Epigenetic Industrial Min. TYPE: E08 Carbonate-hosted talc

STRIKE/DIP: 135/70N DIMENSION: 1600 x 35 Metres TREND/PLUNGE:

COMMENTS: Talc unit.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lardeau Undefined Formation

LITHOLOGY: Phyllite

Carbonaceous Slate Limestone Talc Magnesite Schist Marble Graphitic Schist Talc Schist

HOSTROCK COMMENTS: Lardeau Group ranges from Cambrian to Mississippian in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

A pervasive talc-magnesite trend is developed in a sequence of of silver grey phyllites with interbeds of carbonaceous slate and minor limestone of the Cambrian to Mississippian Lardeau Group, near the contact with limestone of the Lower Cambrian Badshot Formation to the east. These rocks have been metamorphosed up to greenschist facies. An average foliation strikes 090 degrees and dips 36 degrees north.

The deposit outcrops on the shore of the Columbia River and continues southeast to Highway 6, crossing the Goldstream River 500 metres east of the Columbia River for a total length of 1600 metres. Talc float to the southeast, suggests that the trend continues for another 1600 metres. The unit generally strikes 135 degrees and dips 70 degrees north.

The deposit consists of talc-magnesite schist with variable amounts of chlorite and serpentine occurring as a single 2 to 7 metre wide "vein" on Goldstream River and as 3 separate talc "veins" interlayered with marble and graphitic to talcose schist along the highway to the southeast. The talc zones display a composite width of 39 metres on the highway. The talc is greenish white and steatitic to occasionally crystalline. This talc mineralization appears to be currently subeconomic in terms of tonnage and grade (Assessment Report 18028). Minor chalcopyrite and pyrite occur just north and south of this unit on both sides of the Goldstream River.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16604, 18028 EMPR BULL 71 GSC MAP 12-1964 GSC OF 481 GSC P 64-32

DATE CODED: 1989/10/18 DATE REVISED: 1989/10/18

CODED BY: PSF REVISED BY: DEJ

MINFILE NUMBER: 082M 257

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 258

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5719517 EASTING: 378757

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

963

NAME(S): KIRBYVILLE CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M10W 082M10E BC MAP:

LATITUDE: 51 36 49 N

LONGITUDE: 118 45 04 W ELEVATION: 1830 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Area 3, Figure 4, Open File 1988-26.

COMMODITIES: Garnet Kyanite

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Biotite **Kyanite** Sillimanite

MINERALIZATION AGE: Mesozoic

**DEPOSIT** 

CHARACTER: Layered Stratabound Disseminated

CLASSIFICATION: Metamorphic Industrial Min. Kyanite-sillimanite schists

TYPE: P02 SHAPE: Tabular

MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unknown Monashee Complex

LITHOLOGY: Kyanite Sillimanite Garnet Schist

Garnet Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Monashee

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Monashee Complex contains orthogneisses and paragneisses which are exposed in the Frenchman Cap dome. Frenchman Cap is one of a series of domal structures, and, together with the Thor Odin, Valhalla and Pannacles domes comprises the core zone of the Omineca crystalline belt. Aphebian orthogneisses (Brown, 1980) predominate in the lowest part of the Monashee Complex, and are exposed in the core of the Frenchman Cap dome. These are overlain by an autochthonous cover or mantling succession of clastic and carbonate rocks.

Locally, kyanite may constitute 20 per cent of micaceous schists within the mantling succession, and individual crystals may be over three centimetres in length (Hoy, personal communication, 1987).

North of Kirbyville Creek, on the north flank of Frenchman Cap dome pelitic horizons contain abundant, coarse kyanite, some sillimanite and locally, up to 30 per cent garnet. A distinctive amphibolite layer in the same are is reported to contain garnets ranging from 2 to 20 centimetres in size and randomly oriented clusters of kyanite

(Scammell, 1985).

**BIBLIOGRAPHY** 

EMPR OF 1988-26, p. 11 GSC P \*85-1A, pp. 311-316 \*Scammell, R.J. (1985): Stratigraphy and Structure of the Northwest Flank of Frenchman Cap Dome, Monashee Complex, British Columbia

DATE CODED: 1988/03/29 DATE REVISED: 1990/01/04 CODED BY: FIELD CHECK: N CODED BY: JP REVISED BY: LDJ

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 259

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5657227 EASTING: 391917

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

964

NAME(S): **EAGLE PASS MOUNTAIN** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M02E BC MAP:

LATITUDE: 51 03 23 N
LONGITUDE: 118 32 32 W
ELEVATION: 2150 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Area 6, Figure 4, Open File 1988-26.

COMMODITIES: Andalusite

**MINERALS** 

SIGNIFICANT: Andalusite ASSOCIATED: Sericite **Kyanite** 

MINERALIZATION AGE: Mesozoic

**DEPOSIT** 

CHARACTER: Layered Disseminated Stratabound

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P01 Andalusite hornfels SHAPE: Tabular

MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Unknown Monashee Complex

LITHOLOGY: Andalusite Kyanite Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Along the southern flank of Frenchman Cap dome, near Eagle Pass Mountain andalusite-sericite schists have recently been found. These schists contain 30 per cent andalusite and some kyanite (up to 8 per cent) in a matrix of predominantly sericite and quartz (C.D.S. Bates, personal communication 1987 to Z.D. Hora).

These schists are presumed to be part of the mantling gneiss succession of Frenchman Cap dome.

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 12

DATE CODED: 1988/03/29 DATE REVISED: 1989/01/04 FIELD CHECK: N FIELD CHECK: N CODED BY: REVISED BY: LJ

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 260

NATIONAL MINERAL INVENTORY:

NAME(S): STITT CREEK, STITT CREEK GARNET

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 082M09E BC MAP:

LATITUDE: 51 37 42 N

LONGITUDE: 118 10 24 W ELEVATION: 762 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located at the confluence of Stitt Creek and Goldstream River, about

70 kilometres north of Revelstoke.

COMMODITIES: Garnet

MINERALS SIGNIFICANT: Garnet

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unconsolidated

CHARACTER. UTCOMS CLASSIFICATION: Placer TYPE: C01 S SHAPE: Irregular

Industrial Min.

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Ünknown

Unnamed/Unknown Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5720354

EASTING: 418786

REPORT: RGEN0100

965

LITHOLOGY: Alluvium

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

INVENTORY

ORE ZONE: TOTAL

REPORT ON: Y

CATEGORY: QUANTITY:

Measured 300000 Tonnes YEAR: 1994

COMMODITY

**GRADE** Per cent 1.0000

Garnet

COMMENTS: Calculated tonnage; grade unknown.

REFERENCE: D. Hora, personal communication, 1994.

**CAPSULE GEOLOGY** 

The Stitt Creek placer garnet deposit is located at the confluence of Stitt Creek and Goldstream River, about 70 kilometres north of the community of Revelstoke. The deposit is an alluvial fan into a braided stream, with a depth of 5.1 metres. The deposit is very irregular with economic grades of almandine garnet. Calculated reserves are 300,000 tonnes with potential to double (D. Hora,

personal communication, 1994).

Cassiar Coal Company Ltd. conducted a 25-hole drilling program totalling approximately 373 metres in 1995 on the south resource block of Placer Lease 315346. Drill spacing was tightened to 50 metres from 100 metres and done on a diamond pattern. Drilling in 1993 on the north resource block was on 200 metre spacings. Drilling in 1995 was followed by pitting and bulk sampling. The 1995 program indicates a blanket-like deposit improving to the west; overburden is 1-2 metres. The company estimates the 1995 work increased mineable reserves by 25 per cent, pending final results of bulk sampling.

Development work was reported to be ongoing in 1996.

**BIBLIOGRAPHY** 

EM EXPL 1996-A24

EM INF CIRC 1996-1, p. 20; 1997-1, p. 23

DATE CODED: 1994/12/05 CODED BY: GO FIELD CHECK: N REVISED BY: VAP DATE REVISED: 1996/01/01 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 261

NATIONAL MINERAL INVENTORY:

NAME(S): **UPPER MONTGOMERY** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M09E BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83) NORTHING: 5712435

EASTING: 408373

PAGE:

REPORT: RGEN0100

966

LATITUDE: 51 33 20 N LONGITUDE: 118 19 18 W ELEVATION: 2300 Metres LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrrhotite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Disseminated Stratiform
CLASSIFICATION: Volcanogenic
TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic Lardeau **FORMATION** Index

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Actinolite Schist

Siliceous Schist Meta Chert Meta Diorite Sill Graphitic Pelite Marble

Micaceous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

#### **CAPSULE GEOLOGY**

A disseminated sulphide bearing horizon crops out high above Montgomery Lake on the east-trending divide between Goldstream River and Downie Creek.

The sulphide horizon is hosted by rusty wearthering thinly foliated actinolite schist and siliceous schist/metachert which form the hangingwall of a metadiorite sill 1 to 3 metres thick. The horizon can be traced for approximately 500 metres in a sequence of interlayered graphitic pelite, marble and micaceous quartzite which is coarsening upward. The sequence above the sulphide horizon consists of clean quartzite, mica schist and marble. The latter hosts the lead-zinc mineralization of the KJ showing.

The Upper Montgomery sulphide horizon has a prominent electromagnetic signature. It was sampled near its eastern and western ends and analyses returned low base and precious metal values, but elevated manganese.

Diamond drilling in 1994 tested the eastern end of this zone. Drillhole 94-2 interesected two semimassive pyrrhotite zones separated by 26 metres of interlayered greenstone, dark graphitic pelite and carbonate units. The upper (3.8 metres) and the lower (3.2 metres) zones returned trace to insignificant copper values. Drillhole 94-3, collared 100 metres north-northwest of 94-2, intersected only the upper sulphide zone. Analysed samples returned trace amounts of copper (Fieldwork 1994, page 235).

**BIBLIOGRAPHY** 

EMPR FIELDWORK \*1994, pp. 215-241 EMPR OF 1995-2;1999-2

DATE CODED: 1996/02/02 CODED BY: MC FIELD CHECK: Y DATE REVISED: REVISED BY: FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 262

NATIONAL MINERAL INVENTORY:

NAME(S): ICE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M09E BC MAP:

LATITUDE: 51 33 34 N LONGITUDE: 118 20 57 W ELEVATION: 2440 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Volcanogenic TYPE: \* Unkno

Ünknown

Stratiform

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

**GROUP** Lardeau **FORMATION** Index

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5712903 EASTING: 406474

REPORT: RGEN0100

967

LITHOLOGY: Pelitic Calcareous Rock

Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

#### CAPSULE GEOLOGY

The Ice showing was discovered in 1989 during a regional exploration program conducted by Bethlehem Resources Corporation and Goldnev Resources Inc. Numerous, subangular massive pyrrhotite boulders up to 0.5 metre square are dispersed along the north wall of a cirque at 2500 metres elevation. The southern margin of the Goldstream pluton crops out in the cliffs immediately to the north. A single grab sample consisting of chips from five of these boulders returned 6.23 grams per tonne gold, 3.23 grams per tonne silver, 540 parts per million copper and 96 parts per million zinc (Fieldwork 1994, page 235). These values compare well with those reported by Gibson (1989).

Polished thin section studies by J. Payne of Vancouver Petrographics Ltd. describe the sulphide sample as a fine-grained skarn dominated by pyrrhotite with interstial grains of diopside and lesser plagioclase. Chalcopyrite, minor bismuth minerals and traces of arsenopyrite and electrum occur mainly in patches and fractures in diopside (Gibson, 1989).

Massive pyrrhotite, with similar gold grades to those reported here, has been discovered in place during the summer of 1994, in the cliffs above the boulder train. The massive pyrrhotite layer is 1 to 2 metres thick and exposed along strike for over 5 metres in a north-northeasterly direction. Analysed samples returned up to 7.5 grams per tonne gold and elevated copper, bismuth and tungsten (Fieldwork 1994, page 235). The layer is hosted by a pelitic calcareous pendant in the Goldstream pluton.

Boulders from the Ice showing have low base metal values, but their source is an interesting target due to the elevated gold values which are unknown in the other copper-zinc volcanogenic massive sulphide deposits of the area, except perhaps at the J&L, about 25 kilometres to the south.

#### **BIBLIOGRAPHY**

EMPR ASS RPT 19580

EMPR FIELDWORK \*1994, pp. 215-241

EMPR OF 1995-2

DATE CODED: 1996/02/02 DATE REVISED: 1996/02/07 CODED BY: MC REVISED BY: MC FIELD CHECK: N FIELD CHECK: Y

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 263

NAME(S): C-1, GSWEST

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082M10E BC MAP:

LATITUDE: 51 38 09 N LONGITUDE: 118 34 18 W ELEVATION: 1140 Metres

LOCATION ACCURACY: Within 500M COMMENTS:

COMMODITIES: Copper 7inc Lead Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite MINERALIZATION AGE:

Sphalerite

Chalcopyrite Galena

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Volcanogenic TYPE: G04 Bessh

Disseminated

Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

**GROUP** Lardeau **FORMATION** Index

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5721706 EASTING: 391234

NATIONAL MINERAL INVENTORY:

REPORT: RGEN0100

968

LITHOLOGY: Chlorite Phyllite

Carbonate Graphitic Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

YEAR: 1991

Assav/analysis SAMPLE TYPE: Drill Core **GRADE** 

COMMODITY Silver

31.1900 0.0400 1.5400 3.9400

Grams per tonne Per cent Per cent Per cent

7inc COMMENTS: Best intersection over 2 metres. REFERENCE: Fieldwork 1994, page 234.

CATEGORY:

Copper

Lead

**CAPSULE GEOLOGY** 

The C-1 zone was discovered in 1991 by diamond drilling coincident geochemical and geophysical anomalies on the south-facing slope of the 'hump' approximately 9 kilometres west of the Goldstream mine.

The zone is comprised of one or more layers of disseminated and banded to locally semimassive pyrrhotite and sphalerite with trace amounts of chalcopyrite and galena. Ten drillholes tested the zone over a strike length of 400 metres and downdip for up to 75 metres. The best intersection yielded 3.94 per cent zinc, 1.54 per cent lead, 0.04 per cent copper and 31.19 grams per tonne silver over 2 metres. The sulphides are hosted by strongly fractured and faulted dark chlorite phyllite, carbonate and black graphitic phyllite and minor quartz stockwork zones within these units. The thinly foliated calcareous green chlorite schists and carbonates are probably equivalent to the middle Index Formation or the unpremost lever equivalent to the middle Index Formation, or the uppermost lower Index Formation and are correlated with footwall rocks at the Goldstream mine (082M 141).

Talc-altered ultramafic rocks and dark graphitic phyllite crop out in a soapstone quarry 2 kilometres east of the C-1 zone. Drillhole stratigraphy eastward towards the mine shows an interlayered sequence of graphitic phyllites, chloritic phyllites, talc-altered ultramafic rocks and lesser carbonate as far east as the tailings pond (approximately 4 kilometres east of the C-1 zone). Northwest of the C-1 showing, asbestos-bearing serpentinite occurs in

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

graphitic schists of the lower Index Formation at the Monarch showing, now submerged by the Columbia River. Thinly foliated talc-altered greenschists and ankeritic talc schist may represent zones of hydrothermal exhalation rather than altered ultramafic rock. The mineralogy and host stratigraphy of the C-1 showing are similar to the stratiform Rift lead-zinc deposit (082M 190) located

approximately 22 kilometres north. The Rift consists of a number of layers of massive sphalerite, pyrite, pyrrhotite and galena up to 2 metres thick. Sulphides are hosted by a predominantly schistose package of staurolite grade quartz-granet pelitic schist and layered calculicate with lesser psammite and marble. A sheared and metamorphosed ultramafic body, 15 metres thick, intrudes the metasediments above the massive sulphide layer. It consists of magnesite, antigorite, talc and magnetite. Similar ultramafic rocks occur in the Keystone area (082M 089) and are intimately associated with massive sulphides at the Standard deposit (082M 090) farther

#### **BIBLIOGRAPHY**

EMPR ASS RPT 20890, \*23871 EMPR FIELDWORK \*1994, pp. 215-241 EMPR OF 1995-2; 1999-2

WWW http://www.orphanboy.com/gstream.html

DATE CODED: 1996/02/05 DATE REVISED: 1996/09/13 CODED BY: MC REVISED BY: MC FIELD CHECK: Y FIELD CHECK: N

MINFILE NUMBER: 082M 263

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 264

NATIONAL MINERAL INVENTORY:

 $\mathsf{NAME}(\mathsf{S}) \colon \: \underline{\mathsf{LOCOJO}}, \: \mathsf{MCKINNNON} \: \mathsf{CREEK}$ 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082M08E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

970

LATITUDE: 51 17 41 N LONGITUDE: 118 03 02 W ELEVATION: 2060 Metres LOCATION ACCURACY: Within 500M

NORTHING: 5683124 EASTING: 426752

MINING DIVISION: Revelstoke

COMMENTS:

COMMODITIES: Copper 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrrhotite Sphalerite Pyrite Galena Arsenopyrite Chalcopyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Layered
CLASSIFICATION: Volcanogenic Massive

TYPE: G04 Besshi massive sulphide Cu-Zn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Lardeau **FORMATION** IGNEOUS/METAMORPHIC/OTHER Index

LITHOLOGY: Black Phyllite

Quartzite Meta Chert

Black Graphitic Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

**CAPSULE GEOLOGY** 

An interval of interlaminated, very fine grained quartzite (metachert?) and black graphitic phyllite, at least 15 metres thick and up to about 30 metres in structural thickness where it has been thickened by folding, is exposed to the west, in the headwaters of McKinnon Creek, in a separate panel of black phyllite. Four to five metres of gossan within this siliceous unit contains fine-grained laminated pyrite and sphalerite and massive sulphide lenses up to 30 centimetres thick by about 1 metre long. The massive sulphide lenses contain pyrite, galena, arsenopyrite, possible sphalerite and minor chalcopyrite, and nodular quartz. A 10-centimetre layer of white fine-grained crystalline barite is present at one locality in the black phyllite unit.

**BIBLIOGRAPHY** 

EMPR FIELDWORK \*1995, pp. 107-125 EMPR OF 1996-2; 1999-2 PR REL Cross Lake Minerals Ltd., Nov.13, 2002

WWW http://www.crosslakeminerals.com/

DATE CODED: 1996/02/05 CODED BY: MC FIELD CHECK: Y DATE REVISED: 1996/02/05 REVISED BY: MC FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 265

NATIONAL MINERAL INVENTORY:

NAME(S): LADYBUG, LADY BUG, BLACKJACK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M03E BC MAP:

LATITUDE: 51 06 10 N LONGITUDE: 119 05 48 W ELEVATION: 1440 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of Blackjack showing, northwest of an old logging road; GPS Mike Cathro, July 2002.

COMMODITIES: Zinc Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz

Sphalerite Magnetite Tremolite Epidote

Pyrite

Chalcopyrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

Epidote

Carbonate Carbonate

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement TYPE: S01

Vein Skarn Broken Hill-type Pb-Zn-Ag±Cu Stratiform

Massive

K02 Pb-Zn skarn

**HOST ROCK** 

Devonian

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5663345 EASTING: 353210

REPORT: RGEN0100

971

Eagle Plutonic Complex

GRADE: Greenschist

LITHOLOGY: Chert

Quartzite

Ortho Granodiorite Gneiss

Svenite Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Shuswap Highland

**RELATIONSHIP:** 

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

CATEGORY: Assav/analysis SAMPLE TYPE: Channel

YEAR: 1998

COMMODITY 7inc Silver Copper

**GRADE** 1.9000 Per cent 78.2000 Grams per tonne 0.1900Per cent

Lead

COMMENTS: Sample over 9 metres. REFERENCE: Cross Lake Minerals Ltd., Press Release, December 1998.

**CAPSULE GEOLOGY** 

The Ladybug showing is exposed over 50 metres along an old logging road on Mount Fowler, north of Anglemont. The occurrence was originally discovered by N. Stephanishin and D. Pipe under a 1996 Prospectors Assistance Program grant. In 1998, Leo Lindinger, in partnership with Mr. Pipe, further explored the Ladybug under a 1998 Further discoveries were made Prospectors Assistance Program grant.

1.1200

on the property at this time.

The property is underlain by Paleozoic metasediments of the Eagle Bay Formation and Devonian Mount Fowler granodiorite orthogneiss. Galena, sphalerite, magnetite and rare pyrite are hosted by greenish, epidote-tremolite(?), locally calcareous rock. Lamintated, pale green quartz-epidote rock is also common and may be altered chert or quartzite. The mineralization has the appearance of stratabound, Shuswap type Pb-Zn mineralization, however, the presence of calc-silicate minerals and nearby Tertiary felsic dikes suggests that it may have formed through metasomatic processes.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Cross Lake Minerals Ltd. optioned the property in December 1998. Channel sampling by Jim Millar-Tait returned up to 9 metres of 1.9 per cent zinc, 78.2 grams per tonne silver, 0.19 per cent copper and 1.12 per cent lead, including 0.5 metre of 7.42 per cent zinc, 550.0 grams per tonne silver, 0.92 per cent copper and 6.65 per cent lead (Cross Lake Minerals Ltd. Press Release, December 10, 1998). The company completed IP, magnetic and soil surveys in 1999. Five holes (approximately 300 metres) were drilled in 1999.

#### **BIBLIOGRAPHY**

EM EXPL 1998-64
EM INF CIRC 2000-1, p. 19
EMPR OF 1996-20
GSC MAP 48-1963
GSC OF 290; 637
GSC P 75-1A
GCNL #239 (Dec.14), 1998
PERS COMM Mike Cathro, June 1998
PR REL Cross Lake Minerals Ltd., Dec. 10, 1998
WWW http://www.crosslakeminerals.com;
http://www.infomine.com/index/properties/LADYBUG.html
EMPR OF 2000-22

DATE CODED: 1998/06/08 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1998/12/08 REVISED BY: MSC FIELD CHECK: Y

MINFILE NUMBER: 082M 265

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 266

NATIONAL MINERAL INVENTORY:

102

PAGE:

MINING DIVISION: Kamloops

Intrusion-related Au pyrrhotite veins

UTM ZONE: 11 (NAD 83)

NORTHING: 5680716 EASTING: 322043

REPORT: RGEN0100

973

NAME(S): **CAM-GLORIA**, GLORIA, HONEYMOON BAY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E 082M05E BC MAP:

LATITUDE: 51 15 00 N LONGITUDE: 119 33 00 W ELEVATION: 1000 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of claim group.

COMMODITIES: Gold Silver Lead Copper Bismuth

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Galena Chalcopyrite Sphalerite

Arsenopyrite

ASSOCIATED: Quartz Fluorite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Skarn

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Unnamed/Unknown Group Eagle Bay
Cretaceous Baldy Batholith

LITHOLOGY: Quartz Monzonite

**Gneissic Metasedimentary** 

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

# **CAPSULE GEOLOGY**

Follow up on anomalous samples from the 1997 Geological Survey Branch's till geochemistry survey release, led to the Cam-Gloria discovery, by Camille Berube in 1998. A large, rusty, auriferous quartz vein contains pyrite, galena and chalcopyrite. The vein, which is up to 10 metres wide and 200 metres in length, is hosted by Cretaceous monzonite of the Baldy Batholith near its contact with gneissic metasediments of the Eagle Bay Assemblage.

The main vein occupies a 35 to 40 metre wide, 700-metre long

The main vein occupies a 35 to 40 metre wide, 700-metre long zone of variable alteration shearing and quartz veining in quartz monzodiorite of the Honeymoon Stock. The alteration zone strikes northeasterly 025 to 045 degrees and dips northwest from 45 to 70, and appears to pinch and swell along strike.

The veins may be 7 metres wide, and contain an average 1-5

The veins may be 7 metres wide, and contain an average 1-5 coarse grained sulphides, mainly pyrite and pyrrhotite, with traces of galena, chalcopyrite, sphalerite and arsenopyrite. Gold values are variable but appear to be associated with galena, fine-grained bluish-grey sulphides and local discordant gouge or brecciated zones.

Grab samples taken by BC geologists assayed up to 3.754 grams per tonne gold and 61.4 grams per tonne silver. Samples collected by C. Berube assayed up to 27.4 grams per tonne gold (Exploration in BC 1997, page 40). The vein also contains anomalous values of bismuth (to 120 ppm), copper (to 794 ppm), lead (to 534 ppm), molybdenum (to 33 ppm), tellurium (to 4.1 ppm) and tungsten (to 86 ppm), and weakly anomalous arsenic (to 35 ppm) (Mike Cathro, personal communication, 1998). Trenching, drilling (7 holes, 836 metres), mapping, prospecting and VLF geophysics were conducted in 1999 by Teck Corporation.

Quartz veins and alterations were traced over a strike length of 700 metres and a width of 40 metres.

## **BIBLIOGRAPHY**

EM EXPL \*1997, p.40; 1999-33-39; 2001, pp. 237-246
EM FIELDWORK 1998, pp. 297-306; \*1999, pp. 193-206,209-210,225-236;
2000, pp. 231-252

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EM INF CIRC 2000-1, pp. 14, 19 EM OF 1997-9, 1998-9; 1999-3; 2000-7

DATE CODED: 1998/08/26 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 2003/03/02 REVISED BY: MPS FIELD CHECK: Y

MINFILE NUMBER: 082M 266

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 267

NATIONAL MINERAL INVENTORY:

Silver

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5749935 EASTING: 351079

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

REPORT: RGEN0100

Tellurium

975

NAME(S):  $\frac{\text{GOLDSTRIKE}}{\text{ROAD}}$ , BIZAR, BIZ,

STATUS: Showing MINING DIVISION: Kamloops

Copper

Bismuthinite

**FORMATION** 

REGIONS: British Columbia NTS MAP: 082M14E

BC MAP:

LATITUDE: 51 52 49 N LONGITUDE: 119 09 49 W

ELEVATION: 1143 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The Bizar showing is located on the Bizar 1-4 and Biz claims,

2.7 kilometres west of Tumtum Lake in the upper Adams River drainage.

Chalcopyrite

It is 16 kilometres northeast of Avola.

COMMODITIES: Gold **Bismuth** 

Selenium Arsenic

SIGNIFICANT: Pyrrhotite Pyrite COMMENTS: Traces of bismuthinite (?).

ASSOCIATED: Quartz

MINERALIZATION AGE:

**DEPOSIT** 

**MINERALS** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Stockwork Hydrothermal

TYPE: 102 Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Proterozoic

LITHOLOGY: Micaceous Quartzite

Quartz Muscovite Biotite Schist

Gneiss Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1998 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Gold 56.8000 Grams per tonne 0.5271 0.3423 **Bismuth** Per cent Copper Per cent

Silver 5.4000 Grams per tonne

COMMENTS: Chip sample over 20 centimetres. REFERENCE: Mike Cathro, December 1998.

**CAPSULE GEOLOGY** 

The Bizar showing is located on the Bizar 1-4 and Biz claims (Goldstrike Group), 2.7 kilometres west of Tumtum Lake in the upper Adams drainage. It is 16 kilometres northeast of the

village of Avola.

This showing was discovered by prospector/geologist Leo Lindinger in 1998, under the Prospectors Assistance Program. The showing is exposed on an overgrown logging road, however, there is no record and minimal evidence of any previous exploration work in the area. A 50 by 20 metre roadcut exposes a small stockwork zone of quartz-pyrrhotite-pyrite-chalcopyrite veinlets with attitudes of predominantly 300 degrees, 40-90 degrees north to vertical and 360 degrees, 30 degrees east. About 2 to 4 veinlets per metre are present, ranging from 1-3 centimetres in width. The largest vein is about 20 centimetres wide and contains up to 50 per cent sulphides in places, mainly pyrrhotite, pyrite and lesser chalcopyrite.

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The veins are hosted in micaceous quartzite and quartz-muscovite-biotite schist of the Shuswap Metamorphic Complex (mapped as Unit 1c of Wheeler). The foliation of the schist dips moderately to the northeast and strikes at about 300 degrees at the showing. Pegmatite dikes, granitic rocks (mid Cretaceous) and gneiss are also common in the general area.

A semi-concordant layer of auriferous massive pyrrhotite and minor chalcopyrite, up to 20 centimetres wide, occupies the west end of the discovery showing.

The layer is concordant with synmetamorphic foliation and has been deformed together with the schists into southerly plunging crenulation folds. Tight fracture and narrow grey quartz veins trend northerly and dip steeply, crosscutting quartzite and schists.

High grade gold values are found in massive sulphide where it

is associated with bismuth. The veins carry anomalous values in gold.

A 20-centimetre chip sample of quartz-sulphide vein breccia assayed 56.8 grams per tonne gold, 5.4 grams per tonne silver, 6 ppm arsenic, 5270.5 ppm bismuth, 151 ppm cobalt, 3423 ppm copper, 13 ppm molybdenum, 140 ppm nickel, 11.3 ppm selenium, 11.8 ppm tellurium, and 18 ppm tungsten. A 5-centimetre chip sample of massive sulphide vein assayed 11.69 grams per tonne gold, 2.2 grams per tonne silver, 36 ppm arsenic, 769 ppm bismuth, 318 ppm cobalt, 1939 ppm copper, 30 ppm molybdenum, 292 ppm nickel, 4.8 ppm selenium, 1.5 ppm tellurium and 60 ppm tungsten. Values for arsenic, antimony, mercury, lead, zinc, cadmium and tin are low. (Mike Cathro, December 1998).

Cassidy Gold Corp. optioned the Goldstrike group in December 1998 and conducted drilling (5 holes) in 1999. A 20-centimetre chip sample of quartz-sulphide vein breccia

1998 and conducted drilling (5 holes) in 1999.

#### RIRI IOGRAPHY

EM FIELDWORK \*1999, pp. 193-206,210,212-213; 2000, pp. 231-252 EM INF CIRC 2000-1, p. 19 EM OF 1999-3 EMPR OF 1999-3 GSC MAP 19-1957; 94A; 711; 1418A; 1426; 48-1963 PERS COMM Mike Cathro, December 1998 PR REL Cassidy Gold Corp., Dec. 17, 1998; Dec. 6, 1999 WWW http://www.infomine.com/

DATE CODED: 1998/10/18 DATE REVISED: 2003/03/02 CODED BY: MSC FIELD CHECK: Y REVISED BY: MPS

MINFILE NUMBER: 082M 267

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 268

NATIONAL MINERAL INVENTORY:

NAME(S): **AP98-408** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

977

NTS MAP: 082M03W BC MAP:

NORTHING: 5661776 EASTING: 326139

LATITUDE: 51 04 52 N LONGITUDE: 119 28 56 W ELEVATION: 1630 Metres LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper Zinc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Pyrrhotite

Chalcopyrite Sphalerite Galena

Quartz

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive

Exhalative

STRIKE/DIP: 115/10N DIMENSION: 3 x TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

LITHOLOGY: Siliceous Calc-silicate Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Adams Plateau

CAPSULE GEOLOGY

A small trench at the northeast end of the map area has exposed a massive pyrrhotite layer with minor chalcopyrite, sphalerite and galena. The sulphide layer has an exposed thickness of 80 centimetres and a length of a few metres. It is within a very rusted, siliceous calcsilicate gneiss. Based on its base and precious metal content, and location relative to the projected eastern extension of EBGI, it may be at approximately the same stratigraphic level as the Lucky Coon (082M 012) sulphide layer. high pyrrhotite content, relative to pyrite, may reflect higher

metamorphic grade.

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, p. 242

DATE CODED: 1998/11/10 CODED BY: TH FIELD CHECK: Y DATE REVISED: 1998/11/10 REVISED BY: TH FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 269

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5660544 EASTING: 322357

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

978

NAME(S): **AP98-46** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M04E BC MAP:

LATITUDE: 51 04 08 N LONGITUDE: 119 32 08 W ELEVATION: Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrrhotite Pyrite Amphibole Chlorite ALTERATION: Quartz

Chlorite ALTERATION TYPE: Silicific'n Chloritic

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratabound
CLASSIFICATION: Volcanogenic
SHAPE: Tabular

DIMENSION: 3 x Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Undefined Group **FORMATION** STRATIGRAPHIC AGE

Massive

Paleozoic

LITHOLOGY: Amphibolite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Adams Plateau

**CAPSULE GEOLOGY** 

A small pod of very rusty-weathering massive sulphides is exposed within amphibolite of Unit EBG1. The sulphide exposure is several metres in length and up to a metre in thickness. It comprises mainly pyrrhotite and chalcopyrite, with subrounded granular quartz eyes, in a dark green chlorite-amphibole-quartz matrix. Sulphides are typically banded, commonly swirled and cut by late, thin chalcopyrite veinlets. Small euhedral pyrite grains may overgrow the massive sulphides.

Eagle Bay

STRIKE/DIP:

Assays of two samples of the massive sulphide layer returned 0.48 and 0.23 per cent copper, with low lead and zinc content and

only trace silver and gold (EM Fieldwork 1998, p. 243).

**BIBLIOGRAPHY** 

EM FIELDWORK 1998, p. 243

DATE CODED: 1998/11/10 FIELD CHECK: Y

CODED BY: TH REVISED BY: DATE REVISED: / / FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 270

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

979

NAME(S): OTTER CREEK, F.A.B.

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 082M11E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 42 26 N LONGITUDE: 119 12 39 W ELEVATION: 1370 Metres NORTHING: 5730789 EASTING: 347246

LOCATION ACCURACY: Within 1 KM COMMENTS: Location of F.A.B. claims.

> COMMODITIES: Tungsten Uranium

**MINERALS** 

DEPOSIT

SIGNIFICANT: Scheelite Autunite

MINERALIZATION AGE:

**HOST ROCK** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Pegmatite Gneiss

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Shuswap Highland

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The F.A.B. claims were staked in 1983 as a result of a discovery of tungsten skarn mineralization in float. The Otter Creek property is located west of Adams River, 10 kilometres southeast of Avola. The property is underlain by gneiss, schist, pegmatites and interbedded limestone of the Shuswap Metamorphic Complex. Scheelite and autunite occur within pegmatite dikes.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11904

CODED BY: LDJ REVISED BY: DATE CODED: 1998/10/21 DATE REVISED: / / FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 271

NATIONAL MINERAL INVENTORY:

NAME(S): **FORTYNINE CREEK** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

980

NTS MAP: 082M08W 082M07E BC MAP:

NORTHING: 5703467 EASTING: 395918

LATITUDE: 51 28 22 N LONGITUDE: 118 29 55 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located in the alluvial fan at the mouth of Fortynine Creek at the

Columbia River.

COMMODITIES: Garnet Kyanite

MINERALS SIGNIFICANT: Garnet Kyanite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer Industrial Min.

TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex STRATIGRAPHIC AGE GROUP Proterozoic **FORMATION** 

LITHOLOGY: Muscovite Schist

**Biotite Schist** Marble Quartzite Calc-silicate Gneiss

Hornblende Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The area lies within the Shuswap Metamorphic Complex along the eastern margin of the Frenchman Cap Dome. The core of the dome is mantled by an unconformably overlying succession of meta-sedimentary rocks consisting of calc-silicate gneiss, quartzite, hornblende

gneiss and marble.

A high accumulation of garnet and kyanite is reported to occur in the alluvial fan of Fortynine Creek, at its confluence with the Columbia River (Personal Communication, Z.D. Hora, 1998).

**BIBLIOGRAPHY** 

EMPR MAP 43 GSC MAP 12-1964 GSC OF 637

DATE CODED: 1998/11/18 DATE REVISED: 1998/11/18 CODED BY: GJP REVISED BY: GJP FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 272

NATIONAL MINERAL INVENTORY:

NAME(S): LUCKY-J, SAM, GRAFFIN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082M05E BC MAP:

LATITUDE: 51 21 07 N

LONGITUDE: 119 43 26 W ELEVATION: 750 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of drill hole (Assessment Report 22834).

COMMODITIES: Graphite

**MINERALS** 

SIGNIFICANT: Graphite ASSOCIATED: Pyrrhotite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Industrial Min.

TYPE: P04 Crystalline flake graphite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Devonian

Cretaceous

GROUP Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5692486 EASTING: 310331

REPORT: RGEN0100

981

**Baldy Batholith** 

LITHOLOGY: Graphitic Schist

Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Shuswap Highland

CAPSULE GEOLOGY

Granite of the Cretaceous Baldy batholith intrudes Devonian Eagle Bay metasediments consisting of mica schists, quartzites, argillites and slates. Graphite occurs within the metasediments. Two steeply dipping (45 to 65 degrees) sections of graphite were interested by drilling. One was from 42 to 49 metres and the other from 73 to 77 metres. The graphite, as determined by X-ray

diffraction, is crystalline, flake variety and returned values from 2.50 to 4.62 per cent graphite (Assessment Report 22834).

**BIBLIOGRAPHY** 

EMPR ASS RPT 18182, \*22834, 23393, 25127

EMPR P 1987-2 GSC MAP 48-1963

DATE CODED: 1999/06/21 DATE REVISED: //

CODED BY: LDJ REVISED BY:

FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 273

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

NORTHING: 5667015 EASTING: 375831

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

Long Ridge Pluton

PHYSIOGRAPHIC AREA: Shuswap Highland

UTM ZONE: 11 (NAD 83)

REPORT: RGEN0100

982

 $\begin{array}{ll} \text{NAME(S): } & \underline{\textbf{GQ}}, \text{ PERRY RIVER, SECOND CREEK,} \\ & \overline{\text{SW}}, \text{ SE, NE} \end{array}$ 

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082M02W

BC MAP:

LATITUDE: 51 08 28 N LONGITUDE: 118 46 30 W

ELEVATION: 1500 Metres LOCATION ACCURACY: Within 500M COMMENTS: GQ Claims.

> COMMODITIES: Gold Copper Bismuth Tungsten

> > Disseminated

SIGNIFICANT: Pyrrhotite

ASSOCIATED: Quartz

Chalcopyrite Calc-Silicate

Scheelite Tourmaline

**FORMATION** 

Pyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal TYPE: I02 Intrus

Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP
Proterozoic

Middle Cretaceous ISOTOPIC AGE: U-Pb MATERIAL DATED: 92-94 Ma

LITHOLOGY: Quartz Mica Schist Garnet Para Gneiss

Amphibolite Granite Syenite

Marble Calc-silicate Pegmatite Gneiss

HOSTROCK COMMENTS: R.R. Parrish, 1995, CJES Vol. 32.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE:

YEAR: 1999

INVENTORY

ORE ZONE: NE

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**COMMODITY** 

Gold Copper

Tungsten Bismuth

**GRADE** 1.2500 Grams per tonne 0.0510 Per cent 0.0250 Per cent 0.0090 Per cent

COMMENTS: Grab sample by W. Gruenwald. REFERENCE: Fieldwork 1999, page 210.

**CAPSULE GEOLOGY** 

Several new pegmatite-related Au-W-Cu-Bi occurrences were discovered northeast of Shuswap Lake in September, 1999 by geologist Warner Gruenwald. He was following up silt samples with anomalous gold values that he had collected during the summer. The showings outcrop on new logging roads in the Second Creek drainage, a northwest flowing tributary of the Anstey River. The GQ claims were staked in fall 1999 to cover the area.

Quartz-sulphide zones have been located in outcrop over an area of about 1.5 by 1.5 kilometres on the GQ claims, and anomalous gold values have been encountered at the SW, SE and NE showings. The mineralization is hosted by garnet-bearing paragneiss, orthogneiss

RUN DATE: 26-Jun-2003 M

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

and quartz-mica schist, and lesser calc-silicate rock, marble and amphibolite of the Shuswap metamorphic complex. These high-grade metamorphic rocks occur in the hangingwall of the Monashee decollement, to the west of the Frenchman's Cap gneiss dome, part of the Monashee complex. Massive to foliated, granitic intrusive rocks of the mid-Cretaceous Long Ridge pluton (92-94 Ma, U-Pb, R.R. Parrish, 1995, CJES Vol. 32) occur a few hundred metres to the west of the SW showing. The schist/gneiss package is also intruded by abundant pegmatite dikes, some of which contain tourmaline and minor pyrrhotite.

Mineralization consists of 10 to 30 centimetre wide lenses of quartz, calc-silicate and sulphides which occur along the margins of conformable or slightly discordant, locally tourmaline-bearing pegmatite sills, where they are in contact with marble or schist. Sulphide content ranges from a few percent up to 20-30 per cent in semi-massive pods, consisting mainly of pyrrhotite, minor pyrite and traces of chalcopyrite and scheelite. In all cases, the mineralization has an unusual granular texture with euhedral hexagonal to rounded apatite(?) and quartz grains surrounded by sulphides. In addition to gold values ranging from 115 ppb to 1.73 grams per tonne gold, many of the grab samples from the showings have anomalous geochemical values for bismuth (20 to 235 ppm), copper (305 to 734 ppm), tellurium (5.7 to 11.2 ppm), and tungsten (33.6 to 1210 ppm) (Fieldwork 1999, pages 210, 213).

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DATE CODED: 2000/04/06 CODED BY: LDJ DATE REVISED: // REVISED BY:

MINFILE NUMBER: 082M 273

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FIELD CHECK: N

FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 274

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5694850 EASTING: 291756

REPORT: RGEN0100

984

NAME(S): **E-D 1**, MANTO, GOSSAN 1, GOSSAN 2

STATUS: Showing

REGIONS: British Columbia NTS MAP: 082M05W 092P08E

BC MAP:

LATITUDE: 51 22 00 N LONGITUDE: 119 59 30 W

ELEVATION: 1550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Manto 2 Claim.

COMMODITIES: Gold Copper Bismuth Tungsten 7inc

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratabound **Podiform** 

CLASSIFICATION: Replacement TYPE: J04 Sulph

Sulphide manto Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Undefined Group Eagle Bay Carboniferous **Undefined Group** Fennell

Middle Cretaceous Baldy Batholith

LITHOLOGY: Limestone

Calc-silicate Sediment/Sedimentary

Quartz Monzonite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay
METAMORPHIC TYPE: Regional Slide Mountain RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: GOSSAN 1

> CATEGORY: Assay/analysis YEAR: 1999

SAMPLE TYPE: Grab

**GRADE** COMMODITY Gold 3.3000 Grams per tonne 0.1146 Copper Per cent 0.1487 Per cent Tungsten Per cent 7inc 0.13200.0262 Per cent

**Bismuth** COMMENTS: Grab sample of limonitic pyrrhotite-chalcopyrite manto. REFERENCE: Fieldwork 1999, page 210.

**CAPSULE GEOLOGY** 

The E-D 1 claims, owned by Manto Mining Corporation, are located approximately 500 metres south of the southern contact of the Baldy batholith in the headwaters of Birk Creek. The showings were discovered in 1995 by Wayne Tyner, and have received limited mapping, hand trenching, sampling, and geophysical surveys. Three holes were drilled in 1997, but no logs or assays are available.

The mineralization occurs at the contact between a grey limestone unit and an underlying green and pink-banded rock, interpreted to be calc-silicate-altered sediments. Regionally, these rocks are mapped as Mississippian-aged Unit EBPl of the Eagle Bay Assemblage and the faulted contact with basalt of the Fennell Formation (Slide Mountain Terrane) occurs a few hundred metres to the west. The Gossan 1 and 2 showings consist of stratabound pods of partially oxidized, massive pyrrhotite with lesser pyrite, chalcopyrite and sphalerite. They are up to 2 metres thick and several metres in length and dip moderately to the southwest. Three

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

surface grab samples indicates that the sulphides contain significant gold (to 3300 ppb), bismuth (to 377 ppm), copper (to 1348 ppm), zinc (to 1537 ppm), and tungsten (to 1487 ppm) values and are also weakly anomalous in silver, cadmium, molybdenum, selenium, and tellurium (Fieldwork, 1999, pages 210, 211).

The stratabound sulphide mineralization has the appearance and characteristics of a manto-style deposit. The metal assemblage of gold-copper-zinc-tungsten-bismuth with anomalous tellurium and molybdenum, combined with proximity to the Baldy batholith and the presence of weakly calc-silicate altered rocks in the footwall suggest that mineralization formed by replacement of limestone adjacent to the batholith.

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EM FIELDWORK \*1999, pp. 208, 210, 211-212 EMPR ASS RPT 20244, 25026 EMPR P 1987-2

GSC MAP 48-1963

DATE CODED: 2000/04/06 DATE REVISED: / /

CODED BY: LDJ REVISED BY: FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 275

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5688542 EASTING: 314393

REPORT: RGEN0100

986

NAME(S): LUCKY BEAR, LITTLE CREEK, FLAT ROCK, WATER TANK

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M05W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 19 04 N LONGITUDE: 119 39 49 W

ELEVATION: 900 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Little Creek occurrence, Fieldwork 1999.

7inc Gold COMMODITIES: Tungsten Bismuth

SIGNIFICANT: Pyrrhotite Scheelite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Sericite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: 102 Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic **Undefined Group** Eagle Bay

Middle Cretaceous **Baldy Batholith** 

LITHOLOGY: Granodiorite

Ortho Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland TERRANE: Kootenay

CAPSULE GEOLOGY

Prospecting by Camille Berube and Dave and Len Piggin has located several new small W-Bi-Zn, W and W-Au showings on the Lucky Bear claim group near East and North Barriere Lakes. The showings

Bear claim group near East and North Barriere Lakes. The showings are within, or adjacent, to the mid-Cretaceous Baldy batholith.

The "Little Creek" W-Au showing is hosted by sericite- and biotite-altered granodiorite. Steeply dipping, north-trending, sheeted quartz veinlets range up to 10 centimetres in width in a 10 metre-wide blasted roadcut exposure. The veinlets contain minor sericite and pyrrhotite. Ultraviolet lamping has identified scheelite grains up to 1.5 centimetres long which occur in scattered patches in the veins, and selected samples collected by the owners have returned up to 6.15 per cent tungsten (D. and L. Piggin, written communication, 1999). One chip sample contained 370 ppb gold over 2 metres; otherwise the results were not significant for gold, bismuth metres; otherwise the results were not significant for gold, bismuth or tungsten, confirming that tungsten, at least, is very irregularly distributed (Fieldwork 1999, page 210, 211).

Approximately 500 metres to the east at the "Flat Rock" W showing is an irregular, half-metre-wide quartz vein with 1-3 per cent pyrrhotite and traces of chalcopyrite and scheelite. The vein is hosted by quartz-feldspar-biotite gneiss, part of the Devonian Orthogneiss (Schiarizza and Preto, 1987). A grab sample of the vein ran 1480 ppm tungsten (Fieldwork 1999, page 210, 211) and selected samples taken by the owners ran up to 0.39 per cent tungsten, 80 ppb gold, and 135 ppm bismuth (L. and D. Piggin, written communication, 1999)

Scheelite-bearing pegmatite and garnet-tremolite-biotite-quartz skarn boulders ranging from 30 centimetres to 1 metre in diameter are found 2 kilometres to the northeast of the Little Creek showing in the "Water Tank" area (UTM 11 0314806E 5690793N). A grab sample of one of the skarn float boulders returned 0.437 per cent tungsten, 205 ppm bismuth and 1515 ppm zinc (Fieldwork 1999, page 210, 211). Although this mineralization has not yet been found in outcrop, the boulders suggest that skarn and pegmatite-hosted tungsten mineralization is associated with the margin of the Baldy batholith.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 276

NATIONAL MINERAL INVENTORY:

NAME(S): **TWIN 3**, REAR ZONE, SILVER ZONE, TWIN MOUNTAIN

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082M04W

BC MAP:

LATITUDE: 51 08 05 N LONGITUDE: 119 47 51 W

ELEVATION: 1430 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of 1987 drill holes (including Hole Twin 3) that

intersected massive sulphide (Assessment Report 16774, Map No. 1).

COMMODITIES: Gold Silver 7inc Lead Copper

**MINERALS** 

SIGNIFICANT: Galena

MINERALIZATION AGE:

Sphalerite

Pyrite

Chalcopyrite

**DEPOSIT** 

CHARACTER: Stratabound

Concordant Disseminated Massive

CLASSIFICATION: Volcanogenic Industrial Min.

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Irregular DIMENSION: Metres

STRIKE/DIP: 150/48E

TREND/PLUNGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5668528 EASTING: 304286

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HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic

Undefined Group

**FORMATION** Eagle Bay

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Siltstone

Argillite Sericitic Chert

Chert Pebble Conglomerate Quartz Sericite Schist Chlorite Schist Greenschist

Limestone Dolomite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Shuswap Highland

GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

YEAR: 1991

COMMODITY Silver Gold

CATEGORY: Assay/an SAMPLE TYPE: Drill Core Assay/analysis

250.2900 30.8500 Grams per tonne

Grams per tonne 0.2400 Per cent

Copper Lead Zinc

2.1000 0.7700

**GRADE** 

Per cent Per cent

COMMENTS: From a 1.8-metre drill intersection. REFERENCE: Assessment Report 22389, page 15.

**CAPSULE GEOLOGY** 

The Twin 3 occurrence is underlain by Devonian or older rocks

of the Eagle Bay Formation consisting of calcareous chlorite-sericite-quartz schist within unit EBG (Map 56).

schists were derived largely from mafic to intermediate volcanic and

volcaniclastic rocks. The metavolcanics contain several thin layers of limestone and dolomite, as well as remnant pillow basalt structures. The Tshinakin limestone member lies to the northeast of

the property.

In this area, the Rea zone is a continuous, well-defined stratigraphic horizon which hosts several massive sulphide lenses (such as the Rea Gold (092M 191). A second mineralized stratigraphic

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

horizon parallels the Rea zone to the northeast and is referred to as the Silver zone. This zone hosts the Samatsum deposit (082M 244). Mineral exploration on the Twin property started in the 1930s. The Twin Mountain occurrence (082M 020) is located about 1.5 kilomtres to the southeast and is a silver-lead-zinc bearing quartz-dolomite vein discovered in 1936 and explored sporadically by several operators. The Twin claims were staked in 1980. In 1983, Lincoln Resources Inc. entered into an option agreement with Apex Energy Corp to work on the Twin property. A grid was established and a soil survey carried out. Falcobridge Copper acquired the property in 1984 and conducted mapping, rock sampling, Max-Min II and VLF-EM geophysical surveys. Two diamond drill holes were completed also. Lincoln Resources received the property back in 1985 and conducted a limited fill-in soil survey. In 1986, Lincoln extended the grid and conducted further rock and soil sampling and mapping. Genie EM and trenching were also conducted. In late 1986, Esso Minerals Canada optioned the property from Lincoln Resources and Apex Energy. Early in 1987, Esso Minerals conducted a VLF EM geophysical survey over geochemical target areas. This was followed by 2269 metres of diamond drilling which resulted in the discovery of a small gold-rich massive sulphide/barite lens on the Twin 3 claim. During the summer of 1988, Esso Minerals drilled 1278 metres in 8 holes and did additional geophysics and geological mapping. Homestake Canada acquired Esso's option in 1989 and did a limited amount of trenching on the Twin Mountain zone. In 1990, Homestake completed 4017 metres of diamond drilling in nine holes, and 2235 metres of down-hole Pulse EM geophysical surveying in six of the holes. Homestake conducted a further 4069 metres of diamond drilling in 6 holes in 1991. During this program the Silver zone, was interesected by 4 holes on the Twin property.

In 1987, Apex reported a 1.83-metre drill interval (Hole Twin 3 on the Rea Zone) that assayed 30.86 grams per tonne gold, 250.29 grams per tonne silver, 0.77 per cent zinc, 2.1 per cent lead and 0.24 per cent copper (George Cross Newsletter, No. 237, December 10, 1987). A 4.1-metre drill interval from the Twin property was reported to have yielded 12.8 grams per tonne gold, 108 grams per tonne silver, 0.2 per cent copper, 1.5 per cent lead and 0.6 per cent zinc (Assessment Report 22389, page 1). It may be that the former

assay was a sub-interval of the latter.

The Silver zone consists of 50 metres of interbedded graphitic argillite and siltone, sericitic chert, and pyritic sediments. The pyritic sediments range from fine siltstone to coarse chert pebble conglomerates. Chert pebble conglomerate with interbedded wacke contain 30 to 40 per cent pyrite occurring both as very fine-grained matrix and recrystallized granoblasts. Traces of blebby sphalerite, galena and chalcopyrite also occur. This zone remains open along strike and down dip.

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EMPR MAP *56
EMR MP CORPFILE (Camoose Mines Ltd.)
GSC MAP 48-1963; 5320G
GSC OF 637
CMH 1952, p. 146
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Dickie, G.J., Preto, V.A. and Schiarizza, P. (in preparation 1986):
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Stockwatch Dec. 11, 1987
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MINFILE NUMBER: 082M 276

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 277

NATIONAL MINERAL INVENTORY:

NAME(S): K-7, KAMAD 7, K7

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M04W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

990

LATITUDE: 51 08 26 N LONGITUDE: 119 48 47 W ELEVATION: 1520 Metres NORTHING: 5669218 EASTING: 303223

LOCATION ACCURACY: Within 500M

COMMENTS: The K-7 zone on the northern slopes of Samatosum Mountain, 25 kilometres east of Barriere and 60 kilometres north of Kamloops

(Assessment Report 18822, Map No. 2).

COMMODITIES: Silver Gold 7inc Lead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Chalcopyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratabound Massive

CLASSIFICATION: Volcanogenic TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Eagle Bay

LITHOLOGY: Altered Sediment/Sedimentary Cherty Sediment/Sedimentary

Altered Argillite Altered Wäcke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: LENS REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1991

QUANTITY: 375000 Tonnes

GRADE 55.0000 COMMODITY Silver Grams per tonne Gold 4.0000 Grams per tonne 0.5000 4.8000 Per cent Copper Per cent I eád 7inc 6.1000 Per cent

COMMENTS: This inventory is based on several drill holes. REFERENCE: Assessment Report 22389, page 1.

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core YFAR: 1888

**GRADE** 

COMMODITY Silver Gold 77.8000 Grams per tonne 3.5600 Grams per tonne Copper 0.5600 Per cent Lead 6.8500 Per cent Zinc 8.4000 Per cent

COMMENTS: From an 11.6-metre drill interval. REFERENCE: Assessment Report 18822, page 17.

**CAPSULE GEOLOGY** 

The K-7 prospect is located in structurally complex metasedimentary and metavolcanic rocks of the Paleozoic (Lower Cambrian and older(?) to Mississippian) Eagle Bay Assemblage (Formation). The assemblage has a complex deformational history involving multiple stages of thrust faulting and folding during the Jura-Cretaceous which produced strongly foliated and overturned rocks

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

trending northwest and dipping northeast. These Paleozoic rocks are intruded by mid-Cretaceous granodiorite and quartz monzonite (such as the Baldy batholith about 30 kilometres to the north of the deposit), and Early Tertiary quartz-feldspar porphyry, basalt and lamprophyre dykes. These are all locally overlain by Miocene plateau lavas, now represented in the area by occasional erosional remnants.

The area can be divided into several northwest trending, northeast dipping units. From northeast to southwest these are: 1) the Tshinikan Limestone which forms steep, massive landforms dominating the area; 2) mixed sediments consisting of interbedded cherts and argillite; 3) mafic volcanics; 4) the "Mine Series" of rocks which consist of a zone of more mixed sediments and mafic volcanics, with minor felsic to intermediate volcanics, which form the host stratigraphy for both the Samatosum and Discovery or Rea Gold zone (082M 191) deposits; and finally 5) a thick unit of argillites and wackes and a package of felsic rocks which lie in the structural footwall of the Mine Series. See the Samatosum past producer (082M 244) for further details of area geology.

There is no record of work in the K-7 area prior to the discovery of the Rea Gold zone (082M 191) to the north. The Rea find resulted in geophysics and minor diamond drilling to be carried out in 1983 on the Kamad 7 claim. Further geophysics followed in 1984. Five holes totalling 369.7 metres were drilled on the Kamad 7 claim in 1985 for a company called "259146 B.C. Limited". Esso Minerals Canada optioned the property from Kamad Silver Company in 1985. In 1986, Esso carried out basic linecutting, geochemical sampling, HLEM - EM geophysical surveying and 1814 metres of drilling in 11 diamond drill holes. In 1988, Esso drilled 17 holes on the Kamad 7 claim and 7 holes intersected massive sulphide sulphide mineralization within

the "Rea zone" and called it the K-7 lens.

One diamond drill hole (K88033) intersected intensely dolomitized mafic volcanics from 2.6 metres to 32.1 metres which forms the footwall of the Rea zone. Massive, polymetallic sulphides (32.1 to 34.0 metres) were found in sharp contact with the volcanics. The sulphides were medium-grained and crudely banded on a centimetre scale. Bands of massive chalcopyrite and sphalerite/galena were also observed as were "splashes" of galena and chalcopyrite up to 2 centimetres across. A weighted average of 4 assays yielded 1.82 metres of 1.26 per cent copper, 6.51 per cent lead, 6.87 per cent zinc, 53.51 grams per tonne silver, 7.54 grams per tonne gold and 5.30 per cent arsenic (Assessment Report 18822, page 9). Another drill hole (K88040) intersected semi-massive sulphide from 108.8 to 110.6 metres and banded, medium-grained, polymetallic massive sulphide from 110.6 to 120.0 metres. Assays from an 11.60 metre section yielded 0.56 per cent copper, 6.85 per cent lead, 8.40 per cent zinc, 77.8 grams per tonne silver, 3.56 grams per tonne gold and 2.65 per cent arsenic (Assessment Report 18822, page 17). A rough estimate of the K-7 zone surface area as shown on Map 2 (Assessment Report 18822) is 100 by 200 metres.

A resource for the K-7 zone, attributed to Kamad Silver Company,

was reported to be 375,000 tonnes grading 4 grams per tonne gold, 55 grams per tonne silver, 0.5 per cent copper, 4.8 per cent lead and 6.1 per cent zinc (Assessment Report 22389, page 1).

No work occurred on the property after the 1988 work was

completed.

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 278

NATIONAL MINERAL INVENTORY:

NAME(S): SPIRE

STATUS: Prospect REGIONS: British Columbia

Underground

MINING DIVISION: Revelstoke

PAGE:

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992

NTS MAP: 082M09W BC MAP: LATITUDE: 51 35 36 N

LONGITUDE: 118 30 58 W ELEVATION: 700 Metres

NORTHING: 5716898 EASTING: 394980

UTM ZONE: 11 (NAD 83)

LOCATION ACCURACY: Within 500M

COMMENTS: The location is for the central area of Spire claims in December 2000.

COMMODITIES: Copper

7inc

Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz

Chalcopyrite Chlorite

Sphalerite

Pyrite

MINERALIZATION AGE:

**DEPOSIT** 

Massive

Stratabound

Disseminated

CHARACTER: Stratiform
CLASSIFICATION: Volcanogenic

TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Lower Cambrian

GROUP Lardeau

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Sericitic Quartzite

Calcareous Phyllite Chloritic Phyllite

Quartzitic/Quartzose Phyllite Greenstone

Pelitic Schist Limestone Calc-silicate Gneiss **Biotite Gneiss** Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional

GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/an SAMPLE TYPE: Drill Core Assay/analysis

YFAR: 2000

RELATIONSHIP:

COMMODITY

**GRADE** 

Copper

0.5100

7inc

1.0800

Per cent Per cent

COMMENTS: From a 3.12 metres drill interval.

REFERENCE: Imperial Metals Corp. New Release, Dec.4, 2000.

CAPSULE GEOLOGY

The Spire prospect is located about 7.5 kilometres southwest of the past producing Goldstream mine (082M 141). The stratigraphic setting of the Spire is believed to be the same as the Goldsteam.

The Spire prospect is underlain by Lower Cambrian and younger metasediments and metavolcanics of the Lardeau Group. It is flanked on the west by the Precambrian-Paleozoic(?) Shuswap Metamorphic Complex and on the east by Hadrynian Horsethief Creek Group rocks.

The metasedimentary and metavolcanic rocks comprise five major lithologic packages. The lowest unit consists of dominantly pelitic and calcareous schists and marble and lies to the east of the property. This unit is overlain by a succession of rocks consisting of four main divisions (Bulletin 71).

The lower quartzite-schist division consists dominantly of pelitic schist and micaceous quartzite. The overlying calc-silicate gneiss division is comprised of calcareous phyllite and quartzite, marble and biotite gneiss. The metavolcanic-phyllite division, consisting of massive greenstone units, chloritic phyllite,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

ultramafic pods and dark calcareous to pelitic schists, is the host for the Goldstream deposit. The final carbonate-phyllite division consists of dolomite and limestone.

The dominant structure in the area are large, tight to isoclinal, east dipping to recumbent phase 2 folds. The average strike in the deposit area is 290 degrees with 35 degree northeast dips.

The Spire copper-zinc massive sulphide discovery is reported to be similar to Goldstream ore in appearance and grade. At Goldstream, the sulphide layer consists mainly of intimately intermixed pyrrhotite, chalcopyrite and sphalerite with numerous subrounded inclusions of quartz, phyllite and carbonate.

This new occurrence was tested in September 2000 with 7 drillholes totalling 720 metres. A news release by owner Imperial Metal Corp (December 4, 2000) showed that Hole 1 intersected 3.12 metres grading 0.51 per cent copper and 1.08 per cent zinc and hole 4 intersected 3.7 metres grading 0.24 per cent copper and 1.49 per cent zinc. Silver values up to 51 grams per tonne were also obtained from grab samples. The mineralized zone has a true thickness of 3 metres (Imperial Metals News Release, Dec.4, 2000). This new zone is masked by overburden laterally, and dips steeply into the ground to the south. Sampling of the Spire showing revealed pods of high-grade copper and zinc mineralization within a broader zone of iron sulphide (Imperial Metals Corporation 2000 Annual Report).

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DATE CODED: 2000/12/22 DATE REVISED: 2000/12/22 CODED BY: GJP REVISED BY: GJP FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 279

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5744540 EASTING: 345500

REPORT: RGEN0100

994

NAME(S): **NAVAN**, NAVAN A, NAVAN B, BROKEN HILL

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M14E

BC MAP:

LATITUDE: 51 49 49 N LONGITUDE: 119 14 32 W ELEVATION: 1385 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located approximately 10 kilometres northeast of Avola, 0.2

kilometres west of Fowler Lake at the 7.4 kilometre point of the

Cornice logging road.

COMMODITIES: Zinc. Silver I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ALTERATION: Garnet Galena Pyrrhotite **Pyrite** 

Diopside Qúartz ALTERATION TYPE: Skarn Silicific'n

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Stratabound Stratiform

Exhalative

CLASSIFICATION: Sedimentary TYPE: E14 Sedin SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag S01 Broken Hill-type Pb-Zn-Ag±Cu

MODIFIER: Folded

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex STRATIGRAPHIC AGE GROUP
Proterozoic **FORMATION** 

LITHOLOGY: Calc-silicate Gneiss

Marble Quartzite Mica Schist Calc-silicate Schist Pegmatite Ortho Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

REPORT ON: N ORE ZONE: SHOWING

> CATEGORY: Assay/ana SAMPLE TYPE: Unknown YEAR: 2000 Assay/analysis

**COMMODITY GRADE** 

Silver 17.0000 Grams per tonne Per cent I ead 4 0500 Zinc 23.0000 Per cent

REFERENCE: L.Lindinger, personal communication, January 2001.

**CAPSULE GEOLOGY** 

The Broken Hill prospects, located near Avola, B.C., were discovered by geologist Leo Lindinger on September 6, 2000 while working on a grassroots exploration project funded in part through the Ministry of Energy and Mines Prospectors Assistance Grant Program. In October of 2000, Cassidy Gold Corporation entered into an agreement with Lindinger to acquire the 1800 hectare property. The following deposit description is in large part taken from a report by Leo Lindinger, provided to the Ministry of Energy and Mines in January 2001. Some additional information was also provided by BC Geological Survey geologist T. Hoy who visited the showings after their discovery in 2000.

The Navan showings of the Broken Hill property lie northwest of Frenchman Cap Dome within the Proterozoic(?) Shuswap Metamorphic Complex. Paleoproterozoic (Aphebian) core gneisses of the dome are

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

overlain by a cover sequence of metasedimentary rocks consisting of micaceous schist, calcsilicate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic rocks replace and intrude the metasediments.

The Navan A showing is a poorly exposed, partially weathered band of dark brown, fine-grained massive sulphides (sphalerite and galena) hosted by disrupted (frost heaved?) calcsilicates and impure quartzites, probably correlative with the cover sequence of the dome. The grade and style of mineralization is very similar to the Vista A showing (082M 280); however, the highest grade exposures of Navan A are totally within calcsilicate hostrocks. Massive sulphide mineralization up to 25 centimetres across and grading up to 23 per cent zinc, 4.05 per cent lead and 17 grams per tonne silver occurs as boulders that were dug out of subcrop exposures. Exposed hangingwall rocks include thin, impure quartzite layers with minor disseminated pyrrhotite. The host succession appears to trend northward and dip at moderate angles to the east.

The Navan B showing is about 130 metres north of the Navan A exposure. Here, a 1.5-metre long and 5 to 10-centimetre thick band of massive sphalerite occurs in west-dipping quartz-rich schistose rocks. No real bedrock exposures can be seen and the rock hosting the sulphides may be a large rotated subcrop boulder. A 0.3-metre thick sample which included the massive sulphide mineralization yielded 5.6 per cent zinc, 0.6 per cent lead and 8.4 grams per tonne silver.

An open ended soil anomaly immediately north (up ice) and west (down-hill of the Navan B showing contains the highest zinc (2590 ppm) and lead (412 ppm) values in soil (600+ samples) found to date. See also the Vista (082M 280) and Mike (082M 281) occurrences of the Broken Hill property.

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DATE CODED: 2001/01/08 DATE REVISED: 2001/01/08 CODED BY: TH REVISED BY: TH

FIELD CHECK: N FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 280

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

996

NAME(S): VISTA, BROKEN HILL, VISTA A, VISTA B, VISTA C

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 082M14W UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5745380 EASTING: 344390

LATITUDE: 51 50 15 N LONGITUDE: 119 15 31 W ELEVATION: 1415 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located approximatey 1 kilometre northwest of Fowler Lake and 10

kilometres north-northeast of Avola.

COMMODITIES: Zinc Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Chalcopyrite Pyrrhotite Galena Pyrite

ALTERATION: Garnet
ALTERATION TYPE: Skarn Diopside Quartz

Silicific'n MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive Stratiform Stratabound

CLASSIFICATION: Sedimentary Exhalative S01 Broken Hill-type Pb-Zn-Ag±Cu

TYPE: E14 SHAPE: Tabular Sedimentary exhalative Zn-Pb-Ag

MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Proterozoic Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Marble Mica Schist Calc-silicate Schist Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Monashee PHYSIOGRAPHIC AREA: Shuswap Highland

Kootenay RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Amphibolite

INVENTORY

ORE ZONE: SHOWING REPORT ON: N

> YFAR: 2000 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Grab

**GRADE** COMMODITY

Silver 72.0000 Grams per tonne Per cent Lead 4.9000 Per cent Zinc 24.0000

REFERENCE: L.Lindinger, personal communication, January 2001.

CAPSULE GEOLOGY

The Broken Hill prospects, located near Avola, B.C., were discovered by geologist J.E.L. Lindinger on September 6, 2000 while working on a grassroots exploration project funded in part through the Ministry of Energy and Mines Prospectors Assistance Grant Program. In October of 2000, Cassidy Gold Corporation entered into an agreement with Lindinger to acquire the 1800 hectare property. The following deposit description is in large part taken from a report by Lindinger, provided to the Ministry of Energy and Mines in January 2001. Some additional information was also provided by BC Geological Survey geologist T. How who visited the showings after Geological Survey geologist T. Hoy who visited the showings after

their discovery in 2000.

The Vista showings of the Broken Hill property lie northwest of Frenchman Cap Dome within the Proterozoic(?) Shuswap Metamorphic Paleoproterozoic (Aphebian) core gneisses of the dome are overlain by a cover sequence of metasedimentary rocks consisting of micaceous schist, calculate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

rocks replace and intrude the metasediments.

The Vista A showing is a partially exposed band of very dark brown fine to medium grained massive sphalerite with subordinate galena, pyrrhotite, chalcopyrite and pyrite(?). The band was exposed by blasting to establish a road surface for the Cornice Logging road at about kilometre 9.3. The band is at the contact of sulphidic siliceous gneisses in the structural footwall and an overlying 2 (plus) metre thick band of calcsilicate rocks that appear to be highly metamorphosed limestones. The showing appears to be part of a moderately (10-20 degrees) southeast plunging partially eroded antiform or northeast dipping monocline. Rocks to the northeast change dip to moderate to steep northeast dips. Exposures to the southwest are eroded off, and covered by glacial debris, or have not been mapped.

The observed mineralization is in the form of planar to swirled bands of nearly massive sulphides up to 35 centimetre thick that grade up into bands of semi-massive sulphides in a calcsilicate host. The contact with the underlying silicate rock appears very sharp. The band of Vista A type mineralization is exposed discontinuously over about 20 metres; it is assumed to be continuous although it is truncated at surface to the northwest by a northwest-striking, moderately northeast dipping fault that prings a pegmatite dyke into direct contact with the mineralization. To the southeast it plunges below the logging road. Selected grab samples from bedrock exposures assayed up to 24 per cent zinc, 4.9 per cent lead and 72 grams per tonne silver (Lindinger, personal communication, Jan.2001).

Vista B type mineralization occurs 2 to 3 meters structurally

above the Vista A horizon in calculicate rocks. This zone also appears to be stratiform, exposed as a 5 to 10-centimetre thick band of dark brown, coarse grained massive to semi-massive sphalerite. N lead, silver or copper is reported. The band is exposed in its unweathered form for at least 5 meters, about 20 meters southeast of the Vista A discovery outcrop. To the northwest it is eroded off. To the southeast it also plunges below the road. To the northeast, if continuous it would dip to the northeast as part of the stratigraphic package.

Vista C type mineralization (discovered by Warner Gruenwald, P.Geo.) are fault-hosted(?) 4 to 6 centimetre thick silvery-grey medium to fine grained massive to semi-massive sphalerite and galena bands that appear to both occupy the top of and crosscut the calcsilicate horizon hosting the Vista A and B mineralization. Weathered exposures are visible over an 8 by 2.5 metre exposure of the top of the calcsilicate horizon above the fresh exposures of the Vista B mineral band. A sample (0.8 metres long by 8 centimetres thick) taken by Gruenwald yielded 6.6 per cent zinc, 4.1 per cent lead and 6.2 grams per tonne silver (Lindinger, personal communication, Jan.2001).

The calculicate unit hosting the various types of zinc-rich sulphide mineralization appears to contain erratically distributed, weakly disseminated sphalerite and possibly galena. Traces of other iron and copper bearing sulphides are also present. This uncertainty is due to the generally well weathered nature of the surface exposures and lack of sample assay data.

See also the Navan (082M 279) and Mike (082M 281) occurrences of

the Broken Hill property.

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DATE CODED: 2001/01/08 DATE REVISED: 2001/01/08 CODED BY: TH REVISED BY: TH FIELD CHECK: N FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 281

NATIONAL MINERAL INVENTORY:

NAME(S): MIKE, BROKEN HILL, MIKE FLOAT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 082M14E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

998

LATITUDE: 51 47 49 N LONGITUDE: 119 13 39 W ELEVATION: 1610 Metres NORTHING: 5740800 EASTING: 346400

LOCATION ACCURACY: Within 500M

COMMENTS: Located approximately 0.5 kilometres northwest of Shannon Lake, 4 kilometres south-southeast of the Navan A showing (092M 379) at kilometre 15.2 on the Shannon Creek logging road.

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite

ASSOCIATED: Pyrrhotite ALTERATION: Garnet

Quartz

Diopside ALTERATION TYPE: Skarn Silicific'n

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Stratabound Stratiform

CLASSIFICATION: Sedimentary

Exhalative TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

S01 Broken Hill-type Pb-Zn-Ag±Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Proterozoic

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Calc-silicate Gneiss

Mica Schist Calc-silicate Schist

Marble Quartzite Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee Kootenay

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Amphibolite

INVENTORY

ORE ZONE: SHOWING REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 2000 Assay/analysis

**GRADE** 

COMMODITY Per cent 19.6000

REFERENCE: W.Gruenwald, personal communication, 2000.

CAPSULE GEOLOGY

The Broken Hill prospects, located near Avola, B.C., were discovered by geologist J.E.L. Lindinger in late 2000 while working on a grassroots exploration project funded in part through the Ministry of Energy and Mines Prospectors Assistance Grant Program. In October of 2000, Cassidy Gold Corporation entered into an agreement with Lindinger to acquire the 1800 hectare property which includes the Mike showing. The following deposit description is in large part taken from a report by Lindinger, provided to the Ministry of Energy and Mines in January 2001. Some additional information was also provided by BC Geological Survey geologist T. Hoy who visited the showings after their discovery in 2000.

The Mike showing of the Broken Hill property occurs northwest of Frenchman Cap Dome within the Proterozoic(?) Shuswap Metamorphic Paleoproterozoic (Aphebian) core gneisses of the dome are Complex. overlain by a cover sequence of metasedimentary rocks consisting of micaceous schist, calcailicate schist and gneiss, with intercalated layers of marble. Pegmatite and associated medium-grained granitic rocks replace and intrude the metasediments.

The Mike float showing contain cobbles and boulders of dark

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

brown massive, semi massive and disseminated, fine to coarse grained sphalerite and pyrrhotite associated with garnetiferous calc-silicate, pyrrhotitic silicate and coarse grained pegmatitic rocks that are exposed over 40 meters in a series of pits dug for material to upgrade the Shannon Creek logging road. The boulders and cobbles can be dug our of the bank and occur within discrete stratigraphic zones near to and overlying possibly disrupted pegmatitic bedrock. Northwest of the float occurrence is an area of calcsilicate float and bedrock extending for over 2 kilometres. To the southeast is deep glacial till extending to Shannon Lake.

One sample of a massive sphalerite boulder yielded 19.6 per cent zinc and 352 ppm cadmium (Gruenwald, personal communication, 2000). The lead content of this and other samples have consistently lower lead values than the Navan (082M 279) and Vista (082M 280) prospects of the Broken Hill property.

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 001

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

1000

NAME(S): MOBERLY, MOBERLY MOUNTAIN, MOUNT MOBERLY, MOUNTAIN MINERALS, MT. MOBERLY, HIGHWOOD RESOURCES

STATUS: Producer Open Pit MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N07W

UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 22 18 N LONGITUDE: 116 57 53 W NORTHING: 5691158 EASTING: 502456

ELEVATION: 1554 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quarry, just south of Moberly Creek on the east side of the Columbia

River, about 8 kilometres north of Golden (Open File 1987-15).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz MINERALIZATION AGE: Ordovician

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: R07 Silica Industrial Min.

Silica sandstone

SHAPE: Regular

STRIKE/DIP: 140/74N DIMENSION: 90 Metres TREND/PLUNGE: COMMENTS: Quartz sandstone zone is 90 to 120 metres thick.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Ordovician **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Mount Wilson

**Undefined Group** 

LITHOLOGY: Quartzite Quartz Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: MOBERLY REPORT ON: Y

> YEAR: 1985 CATEGORY: Probable

QUANTITY: 10000000 Tonnes **GRADE** 

COMMODITY Silica 99.6000 Per cent

COMMENTS: Estimated reserves of friable quartz sandstone, from company

specifications.

REFERENCE: Z.D. Hora, personal communication, 1991.

**CAPSULE GEOLOGY** 

The Moberly quarry is located 8 kilometres north of Golden on the southwest slopes of Moberly Mountain, just south of Moberly Creek  $\,$ on the east side of the Columbia River.

Two bands of Middle and/or Upper Ordovician Mount Wilson Formation quartzite cross the property striking at about 140 degrees with dips varying from 74 degrees northeast to vertical. The northeasterly band has an average indicated true thickness of 790 metres while the southwesterly band has an approximate true thickness of 455 metres. Due to thrusting, the bands are separated by about 600 metres.

A friable quartz sandstone zone, with a thickness of 90 to 120 metres, is located parallel and close to the southwest margin of the southwest quartzite band. An anticlinal axis trends down the middle of the southwest quartzite band. The compact quartzite is frosty white and consists of well-rounded quartz-cemented grains 0.125 to 0.25 millimetre in diameter. The quartz sandstone is pale buff to almost white with rounded grains falling into two size groups; 0.5 millimetre and 0.15 to 0.25 millimetre. An analysis of washed sand yielded: 99.67 per cent SiO2, 0.02 per cent Fe2O3, 0.06 per cent Al2O35, 0.06 per cent CaO, 0.02 per cent MgO, 0.01 per cent Na2O, 0.02 per cent K2O, 0.01 per cent TiO2 and 0.12 per cent LOI (Open File 1987-15).

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

Quarrying operations have taken place mainly on the quartz sandstone zone. Production began in 1980 and the quarry is operated by Mountain Minerals Company Ltd. Estimated reserves in 1985, from company specifications, amounted to 10 million tonnes of friable quartz sandstone grading 99.6 per cent (Z.D. Hora, personal communication, 1991) and 50 million tonnes of quartzite grading 99 per cent plus (Open File 1987-15; 1992-1). The product is used as glass, foundry and blasting sand. Estimated annual production for 1980-1985 is 80,000 to 100,000 tonnes per season.

Mountain Minerals Company Ltd. is producing approximately 80,000 tonnes annually at Moberly for shipment to Springfield, Oregon (Information Circular 1996-1, page 9).

In 1996, the mine was producing approximately 140,000 tonnes per year with shipments going to Springfield, Oregon; Lavington, B.C. and other destinations (Information Circular 1997-1). The mine is operated by Highwood Resources Ltd.

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 002

NATIONAL MINERAL INVENTORY: 082N2 Ba1

NAME(S): PARSON, PARSON MINE, PARSON BARITE, HILLTOP, MOUNTAIN MINERALS, HIGHWOOD RESOURCES

STATUS: Past Producer

Open Pit Underground

MINING DIVISION: Golden

NORTHING: 5652694 EASTING: 524488

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REPORT: RGEN0100

1002

REGIONS: British Columbia NTS MAP: 082N02E UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 01 31 N LONGITUDE: 116 39 03 W ELEVATION: 1127 Metres LOCATION ACCUMENCY: Within 500M

COMMENTS: Quarries on Lot 14351, 5 kilometres south of the village of Parson,

and west of the Columbia River (Minister of Mines Annual Report

1952).

COMMODITIES: Barite

**MINERALS** 

SIGNIFICANT: Barite ASSOCIATED: Hematite Quartz Pyrite Chalcopyrite Siderite

Calcite

COMMENTS: Minor to trace amounts. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: E17 Se Hydrothermal Industrial Min.

Sediment-hosted barite

DIMENSION: 9 Metres STRIKE/DIP: 350/90W TREND/PLUNGE:

COMMENTS: Barite veins dip steeply west and are up to 9.1 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Proterozoic Hamill Undefined Formation

LITHOLOGY: Quartzite Dolomite

Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Parson deposit is located 7 kilometres southwest of the town

Much of the area is covered by surficial deposits and good bedrock exposures are minimal, generally restricted to steep slopes and knolls. Bedrock in the area consists of a thick series of quartzites, possibly of the Hadrynian to Lower Cambrian Hamill Group. The quartzites are thin to thick bedded and coarsely granular. Underlying the quartzite is a 3 to 6 metre thick bed of slaty, dark grey shale, in turn underlain by blue-grey, crystalline, brown-

weathering dolomite approximately 30 metres thick. Rocks in the Parson mine area strike northwesterly with dips of 70 degrees to the southwest and appear to be on the east limb of a major syncline. Locally, the strike changes to north-northeast with dips of 48 to 75 degrees to the southwest.

Barite occurs in two irregular fissure veins 90 to 100 metres apart. These veins strike 350 degrees and dip steeply to the west. They are confined between two fault planes with negligible horizontal movement. Underground, the veins appear to coalesce. The East vein varies from 1.5 to 9.1 metres wide, and the West vein from 3.3 to 9.1 metres wide.

The barite is white to creamy white, coarse grained and crystalline; much of it is iron stained. Minor to trace amounts of hematite, quartz, pyrite, chalcopyrite, siderite and calcite are found in the barite. The barite is used in drilling mud and extender applications.

Production at the Parson operation commenced in 1941 and except for some short periods of non-production, has continued producing to the present day. Initially, barite was quarried from three open pits. In 1957, adits were driven into the deposit and all mining

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

since that time has been from underground.

The production statistics (1944-1973) have been compiled from Minister of Mines Annual Reports and are incomplete. Mountain Minerals Co. Ltd. have provided their production figures for the years 1982 to 1992.

It was reported, at the end of 1996, that reserves were almost depleted and the mine may close by the year 2000. The company is looking for new sources of barite. Highwood Resources Ltd. drilled in 1997. The mine closed in 1999.

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```
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EMPR AR 1944-80,81; 1945-130; 1946-203,204; 1947-203,204; 1948-183;
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    141; 1962-147; 1963-138; 1964-179,181; 1965-258,259; 1966-260;
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1998-1, p. 13

EMPR MAP 65 (1989)

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p. 80; 1988, p. 79

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EMPR PF (82N General File - Prospector's map, 1937; *Butrenchuk, S.
    (1988), internal unpublished draft manuscript on barite; Sketch
maps by J.W. McCammon, 1958)
EMR MP CORPFILE (Mountain Minerals Limited)
GSC MAP 295A; 1501A
GSC MEM 55
GSC OF 481
GSC P 91-1A, pp. 27-31
GSC SUM RPT 1932 Part AII, pp. 106-176
CANMET IR 60, p. 18
WWW http://www.highwood-resources.com;
   http://www.infomine.com/index/properties/PARSON_BARITE_MINE.html
```

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED: 1991/01/31 REVISED BY: GO FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 003

NAME(S): **SNOWFLAKE**, STANNITE, STANNEX, SUNSET A (L.8576), SNOWFLAKE A-C (L.8571-3)

STATUS: Past Producer

REGIONS: British Columbia NTS MAP: 082N04W

BC MAP: LATITUDE: 51 11 40 N LONGITUDE: 117 55 01 W

ELEVATION: 1691 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Portal of No. 4 level on Lot 8576 (Sunset A), about 1 kilometre west of Clabon Creek which is a tributary to Woolsey (Silver) Creek, 8 kilometres north of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres north-northeast of Revelstoke (Property File -

Plan of underground workings).

COMMODITIES: Lead

Tungsten

Silver Tin

Zinc

Copper

NATIONAL MINERAL INVENTORY: 082N4 Pb3

MINING DIVISION: Revelstoke

NORTHING: 5671848 EASTING: 435928

UTM ZONE: 11 (NAD 83)

Gold

PAGE:

REPORT: RGEN0100

1004

**MINERALS** 

SIGNIFICANT: Galena

Stannite ASSOCIATED: Quartz

Sphalerite Scheelite Calcite

Chalcopyrite Silver Pyrite

Tetrahedrite Pyrrhotite

Pyrargyrite

Fluorite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: I05 Pc

Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

F14

Sedimentary exhalative Zn-Pb-Ag

**HOST ROCK** 

Paleozoic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

**GROUP** Lardeau **FORMATION** Undefined Formation

RELATIONSHIP:

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Graphitic Slate

Argillaceous Limestone

Limy Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE:

**CAPSULE GEOLOGY** 

The area is underlain by black, fissile graphitic slates with local minor variations in carbonate and silica content, and thin bedded dark grey argillaceous limestone and limy argillite, of the Lower Cambrian and younger Lardeau Group. These rocks strike northwest and dip from 35 to 60 degrees northeast. A well developed slaty cleavage parallel to bedding is universally present. A pronounced system of jointing trends northeast and dips steeply southeast. All of the sediments are cut by numerous, small, barren quartz stringers.

A system of northwest striking, mineralized subparallel quartz veins occur in slates over an area of 3.5 by 1 kilometres, and have been subjected to exploration and underground development on the Snowflake and Woolsey (082N 004) properties. The veins are from a few centimetres to 6 metres wide, but widths between 0.6 and 2.4 metres are most common. To 1940, the Snowflake had been developed by about 609 metres of underground workings. By 1969, the Woolsey was developed by about 5940 metres of underground workings. Fourteen underground levels on the combined Snowflake and Woolsey properties were developed on six subparallel quartz veins.

The main or No. 1 vein on the Snowflake property was followed easterly onto the adjoining Woolsey property for approximately 99 metres, and has been developed by underground workings on the Woolsey property.

The quartz veins are generally coarsely crystalline, crushed and fractured and normally contain wallrock fragments and minor calcite. The veins strike northwesterly and dip 60 to 35 degrees northeast, with faulting both across and along the veins. They are variably mineralized with argentiferous galena, sphalerite, pyrite and minor chalcopyrite. Minor amounts of tetrahedrite, pyrargyrite, native

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

silver and pyrrhotite were identified by microscope examination. The oreshoots are extremely irregular, pinching and swelling in the vein, and their continuity cannot be assumed to extend for any distance beyond an exposure. The oreshoots generally occur on the footwall sides of the veins but are occasionally found in the hangingwall.

In 1928, stannite was identified from a sample of the mineralized vein in the Snowflake workings and is associated with pyrite-chalcopyrite-sphalerite. It occurs very sparingly in the Woolsey workings. Scheelite has also been identified in the Snowflake workings but occurs widely in the Woolsey workings as small masses widely scattered in the veins, and as concentrations in pyritic lenses. Fluorite has also been reported to occur with the scheelite.

Scheelite has been of primary interest at the Woolsey property; a 45-tonne mill was built underground at the Woolsey in 1938, designed to make a silver-lead and tungsten concentrate, but was not an economic or metallurgical success (Sargent, 1942).

#### **BIBLIOGRAPHY**

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CIM Structural Geology of Canadian Ore Deposits (1948), Regal Silver Mine, pp. 196-199, Lord, C.S.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/09/30 REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 004

NATIONAL MINERAL INVENTORY: 082N4 Pb3

NAME(S): WOOLSEY, REGAL SILVER, REGAL, MORTON-WOOLSEY, STANNITE

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N04W Underground

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1006

NORTHING: 5671931 EASTING: 436725

BC MAP:

LATITUDE: 51 11 43 N LONGITUDE: 117 54 20 W ELEVATION: 1358 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Portal of No. 10 level on Lot 14193 (Big Ledge No. 2), about 200

metres west of Clabon Creek which is a tributary to Woolsey (Silver) Creek, 8 kilometres north of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres north-northeast of Revelstoke

(Property File - Plan maps of underground workings).

COMMODITIES: Lead

Tungsten

Silver Tin

Zinc

Copper

Gold

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Galena

Stannite

Sphalerite Scheelite

Calcite

Chalcopyrite Silver

Tetrahedrite

Fluorite

Pyrargyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: 105 Pc

Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

Pyrite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

**GROUP** Lardeau **FORMATION** 

Pyrrhotite

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Graphitic Slate

Argillaceous Limestone

Limy Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE:

INVENTORY

ORE ZONE: TOTAL

REPORT ON: Y

CATEGORY: QUANTITY: Unclassified 590703 Tonnes YEAR: 1982

**GRADE** COMMODITY Silver 71.6000

Grams per tonne Copper Per cent 1.1000 Per cent 2.6600 Lead Tin 0.1300 Per cent Tungsten 0.0150 Per cent Zinc 1.2600 Per cent

COMMENTS: Reported reserves.

REFERENCE: Prospectus, Gunsteel Resources Inc., April 29, 1986.

**CAPSULE GEOLOGY** 

The area is underlain by black, fissile graphitic slates with local minor variations in carbonate and silica content, and thin bedded dark grey argillaceous limestone and limy argillite, of the Lower Cambrian and younger Lardeau Group. These rocks strike northwest and dip from 35 to 60 degrees northeast. A well developed slaty cleavage parallel to bedding is universally present. A proportion of pointing trouds northwest and dips stooply. pronounced system of jointing trends northeast and dips steeply southeast. All of the sediments are cut by numerous, small, barren quartz stringers.

A system of northwest striking, mineralized subparallel quartz veins occur in slates over an area of 3.5 by 1 kilometres, and have been subjected to exploration and underground development on the Snowflake (082N 003) and Woolsey properties. The veins are from a

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

few centimetres to 6 metres wide, but widths between 0.6 and 2.4 metres are most common. To 1940, the Snowflake had been developed by about 609 metres of underground workings. By 1969, the Woolsey was developed by about 5940 metres of underground workings. Fourteen underground levels on the combined Snowflake and Woolsey properties were developed on six subparallel quartz veins.

The main or No. 1 vein on the Snowflake property was followed easterly onto the adjoining Woolsey property for approximately 99 metres, and has been developed by underground workings on the Woolsey property.

The quartz veins are generally coarsely crystalline, crushed and fractured and normally contain wallrock fragments and minor calcite. The veins strike northwesterly and dip 60 to 35 degrees northeast, with faulting both across and along the veins. They are variably mineralized with argentiferous galena, sphalerite, pyrite and minor chalcopyrite. Minor amounts of tetrahedrite, pyrargyrite, native silver and pyrrhotite were identified by microscope examination. The oreshoots are extremely irregular, pinching and swelling in the vein, and their continuity cannot be assumed to extend for any distance beyond an exposure. The oreshoots generally occur on the footwall sides of the veins but are occasionally found in the hangingwall.

In 1928, stannite was identified from a sample of the mineralized vein in the Snowflake workings and is associated with pyrite-chalcopyrite-sphalerite. It occurs very sparingly in the Woolsey workings. Scheelite has also been identified in the Snowflake workings but occurs widely in the Woolsey workings as small masses widely scattered in the veins, and as concentrations in pyritic lenses. Fluorite has also been reported to occur with the scheelite.

Scheelite has been of primary interest at the Woolsey property; a 45-tonne mill was built underground at the Woolsey in 1938 designed to make a silver-lead and tungsten concentrate, but was not an economic or metallurgical success (Sargent, 1942).

In 1982, reported reserves at Woolsey was 590,703 tonnes grading 71.6 grams per tonne silver, 2.66 per cent lead, 1.26 per cent zinc, 1.1 per cent copper, 0.13 per cent tin and 0.015 per cent tungsten (Prospectus, Gunsteel Resources Inc., April 29, 1986).

### **BIBLIOGRAPHY**

EMPR AR 1918-K155; 1919-N140, N141, N150; 1922-N213; 1924-B204; 1925-A259; 1926-A270; 1927-C289,C290; 1928-C312,C313; 1929-C331-C333; 1930-A259,A260; 1938-E44; 1940-A87; 1941-A81; 1949-A209; 1950-A158, A159; 1951-A193; 1952-A205; 1953-A156, A157; 1954-A152; 1967-263,264; 1968-263,264 EMPR ASS RPT 8963 EMPR BC METAL MM00645 EMPR BULL \*10, pp. 81-92; 10 (Revised, 1943), pp. 120-130 EMPR EXPL 1980-148 EMPR GEM 1969-339 EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976; \*Sargent, H. (1942): Report on Woolsey and Snowflake Groups; Numerous assay plans, plans of underground workings, drillholes and assays; Report on the Woolsey Group by N.E. Nelson; Guernsey, F.W. (1930): Report on Regal Silver Mine; Lord, C.S. (1943): Diamond Drilling and Sampling at Regal Silver and Snowflake Properties) EMR MIN BULL 223, B.C. 84 EMR MP CORPFILE (Glasair Mining Corporation, Limited; Snowflake Mining Company, Limited; Morton Woolsey Consolidated Mines, Limited; Regal Silver Mines Limited; Consolidated Tungsten-Tin Mines, Limited; Columbia Lead & Zinc Mines Ltd.; Columbia Metals Corporation Limited; Stannex Minerals Ltd.) GSC EC GEOL 17, pp. 92,93 GSC MAP 237A; 4-1961; 43-1962 GSC OF 481 GSC P 62-32 GSC SUM RPT 1928 Part A, pp. 186,187 CANMET IR 720 (1929), pp. 101-116; 724 (1930), pp. 112-115; 797 (1938), pp. 78-82; 1404 (1943); 70-44 (1970) CIM Structural Geology of Canadian Ore Deposits (1948), Regal Silver Mine, pp. 196-199, Lord, C.S. GCNL Nov.21, 1970 N MINER Dec.3, 1953 Prospectus, Gunsteel Resources Inc., April 29, 1986 EMPR OF 1998-10

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/09/29 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 005

NATIONAL MINERAL INVENTORY: 082N3 Au2

PAGE:

UTM ZONE: 11 (NAD 83)

EASTING: 493029

REPORT: RGEN0100

1008

NAME(S): **ELLEN D (L.1114)**, BUCKSKIN (L.1115)

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N03E BC MAP:

NORTHING: 5654741

LATITUDE: 51 02 39 N LONGITUDE: 117 05 58 W ELEVATION: 2408 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 1114, located on the southeast slope of Beverly Peak,

near the headwaters of a southeast flowing tributary of Bobbie Burns Creek, about 30 kilometres south-southwest of Golden (NTS Map

82N/3E).

COMMODITIES: Lead Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Tetrahedrite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hvdrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Metasedimentary

GROUP Horsethief Creek **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Hadrynian Undefined Formation

LITHOLOGY: Schist

Quartzite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Ellen D (Lot 1114) occurrence is located on the southeast slope of Beverly Peak, near the headwaters of a southeast flowing tributary of Bobbie Burns Creek, about 30 kilometres south-southwest of Golden. Old workings consist of a 20-metre adit on Lot 1114 and

a 15-metre crosscut adit on Lot 1115 (Buckskin claim).

Hostrocks in the occurrence area comprise schists, quartzites,

grits and minor limestone of the Hadrynian Horsethief Creek Group. An adit on the Ellen D claim was driven on a quartz vein that varied from 0.9 to 1.8 metres wide. The vein is mineralized with pyrite, galena and tetrahedrite. Samples have yielded high gold and silver values. A crosscut adit on Lot 1115 intersects a number of quartz stringers which are similarly mineralized.

**BIBLIOGRAPHY** 

EMPR AR \*1892-536; \*1898-1048,1054,1187; 1899-593; 1921-G346

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 4-1961; 43-1962

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/17 REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 006

NATIONAL MINERAL INVENTORY: 082N3 Au3

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5651590

EASTING: 492927

REPORT: RGEN0100

1009

NAME(S): **FLYING DUTCHMAN**, BRYAN (L.3951), LINCOLN (L.3952), LUCKY JACK (L.3953)

STATUS: Prospect Underground MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N03E

BC MAP:

LATITUDE: LONGITUDE: 117 06 03 W ELEVATION: 1867 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: A lower crosscut adit located on the northwest side of Bobbie Burns Creek about 2 kilometres west of its confluence with Carbonate Creek, about 30 kilometres south-southwest of Golden (Minister of Mines

Annual Report 1936, page E28).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epigenetic

Hydrothermal Polymetallic veins Ag-Pb-Zn±Au TYPF: 105

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** Horsethief Creek Hadrynian

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: YEAR: 1934 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY GRADE

Gold 15.7000 Grams per tonne

COMMENTS: Sample across a 0.5 metre quartz vein.

REFERENCE: Minister of Mines Annual Report 1934, page E28.

**CAPSULE GEOLOGY** 

The Flying Dutchman property is located on, and along the northwest side of Bobbie Burns Creek about 2 kilometres west of its confluence with Carbonate Creek, about 30 kilometres south-southwest of Golden. The property included the Lincoln (Lot 3952), Lucky Jack (Lot 3953) and Bryan (Lot 3951) claims. Workings consist of a 27-metre adit on the Lincoln claim and a 6-metre adit on the Bryan claim. On the Flying Dutchman claim in this same vicinity, 2 adits totalling 54 metres were driven at elevations of 1867 and 1935 metres in 1890. By 1898, the underground workings comprised 100 metres of

In 1890. By 1898, the underground workings comprised 100 metres of drifts and crosscuts (National Mineral Inventory 82N/3 Au 3).

Hostrocks on the property consist of highly contorted slates of the Hadrynian Horsethief Creek Group. Cutting the slates are quartz veins (with minor calcite) striking from 030 to 080 degrees with 38 to 70 degree north dips. The veins have irregular widths which range from 0.3 to 1.2 metres. Mineralization consists of pyrite which occurs as massive lenses or pods, or is irregularly disseminated

through the quartz. In the Flying Dutchman lower crosscut adit, a grab sample taken from a quartz vein at the southwest drift face assayed 15.7 grams per tonne gold across 0.5 metre (Minister of Mines Annual Report 1934,

page E28).

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1894-748; \*1898-1049,1050,1054; 1899-594; 1900-979; 1920-N350; \*1934-E27,E28; \*1936-E26,E28,E33 EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/17 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 006

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 007

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5759418

EASTING: 462477

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1011

NAME(S): PRATTLE CREEK, PTC

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N13E BC MAP:

LATITUDE: 51 59 03 N LONGITUDE: 117 32 47 W ELEVATION: 1981 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Hand trench, located 250 metres northwest of a small unnamed lake,

west of Prattle Creek, about 90 kilometres northwest of Golden

(Assessment Report 21524).

COMMODITIES: Zinc

I ead

**MINERALS** 

SIGNIFICANT: Sphalerite

Galena

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Undefined Group

STRATIGRAPHIC AC Ordovician-Silurian Beaverfoot

Middle Cambrian **Undefined Group** Snake Indian

LITHOLOGY: Dolomite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

**FORMATION** 

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> Assay/analysis CATEGORY: YEAR: 1990

SAMPLE TYPE: Chip COMMODITY **GRADE** 

0.2000 Per cent ead 2.4800 Per cent 7inc

REFERENCE: Assessment Report 21524.

**CAPSULE GEOLOGY** 

The Prattle Creek occurrence area is underlain by westerly dipping (60 degrees) carbonate rocks of the Middle Ordovician to Silurian Beaverfoot Formation and Middle Cambrian Snake Indian Formation. The carbonates are alternating conformable beds of dolomite and limestone within a tightly folded recumbent syncline. See PTC (083C 002) for a detailed regional geology description.

At one showing near a small unnamed lake, a silicified dolomite

hosts disseminated red sphalerite with minor galena. A chip sample from a hand trench analysed 2.48 per cent zinc and 0.20 per cent lead (Assessment Report 21524). Another mineralized showing is situated

1.75 kilometres southeast of the trenched showing. Here, disseminated cubic galena occurs in white crystalline limestone.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*19814, \*21524

GSC MAP 4-1961; 43-1962

GSC OF 481

GSC P 62-32; 91-A, pp. 163-169

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/01 FIELD CHECK: N CODED BY: GSB REVISED BY: GO

MINFILE NUMBER: 082N 007

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 008

NATIONAL MINERAL INVENTORY: 082N3 Au1

PAGE:

REPORT: RGEN0100

1012

NAME(S): ROBERT E. BURNS (L.1002), NUGGET (L.777), BOBBIE BURNS, BOBBY BURNS, MILL SITE (L.1091), HIGHLAND MARY (L.1982),

**RIDER (L.776)** 

Open Pit MINING DIVISION: Golden

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N03E BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 51 01 33 N LONGITUDE: 117 06 46 W NORTHING: 5652704 EASTING: 492091

ELEVATION: 2255 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the Robert E. Burns claim (Lot 1002), located at the headwaters of a southeasterly flowing tributary of Bobbie Burns Creek, 2 kilometres west of the confluence of Bobbie Burns Creek and Carbonate Creek, about 30 kilometres south-southwest of Golden (Minister of Mines Annual Report 1923, page A197).

COMMODITIES: Gold Silver Lead

**MINERALS** 

SIGNIFICANT: Pvrite Galena Gold Arsenopyrite

ASSOCIATED: Quartz ALTERATION: Limonite

COMMENTS: Inferred from surface oxidation of iron sulphides. ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

TRATIGRAPHIC AGE GROUP Horsethief Creek **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Undefined Formation

LITHOLOGY: Slate

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> YEAR: 1923 CATEGORY: Assav/analysis

SAMPLE TYPE: Bulk Sample

COMMODITY Silver 34.2000 Grams per tonne

10.2000 Gold Grams per tonne

COMMENTS: Highest values from ninety kilograms of pulverized ore quartered down into two samples.

REFERENCE: Minister of Mines Annual Report 1923, page A198.

CAPSULE GEOLOGY

The Robert E. Burns property is located at the headwaters of a southeasterly flowing tributary of Bobbie Burns Creek, 2 kilometres west of the confluence of Bobbie Burns Creek and Carbonate Creek, about 30 kilometres south-southwest of Golden. The property is on the south side of the pass (Spillimacheen Range) into McMurdo Creek.

the south side of the pass (Spillimacheen Range) into McMurdo Creek.

Quartz vein showings discovered in about 1889 were staked as the
Bobbie Burns claim. A 5-stamp mill was installed at the 2072-metre
elevation in 1891. During 1892 about 27 tonnes of ore were taken
from an opencut and run through the mill, but gold recoveries were
low. Litigation as to the ownership of the Bobbie Burns claim
resulted in the claim being restaked at the Robert E. Burns (Lot 1002). In 1923, the property consisted of the Robert E. Burns, Mill Site (Lot 1091), Nugget (Lot 777), Highland Mary (Lot 1982) and Rider (Lot 776) claims.

Hostrocks on the property consist of northwest striking, steeply

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

southeast dipping slates and schists of the Hadrynian Horsethief Creek Group. A series of quartz veins, 0.3 to 1.2 metres wide, strike northwest and cut the metasediments. Smaller crosscutting quartz veins are nearly at right angles to the northwest striking system. The quartz veins are locally mineralized with disseminated pyrite and small amounts of galena and arsenopyrite. The mineralization tends to be concentrated in the smaller vein system and where the smaller vein system crosscuts the larger veins.

There was some near-surface oxidation of sulphides that resulted in leached and honeycombed quartz, which when washed produced native gold. A pile of about 90 tonnes of ore was left outside the feeding platform at the mill; about 90 kilograms of the ore was taken from different parts of the pile, pulverized, and quartered down into two samples which assayed 10.2 and 9.5 grams per tonne gold, and 34.2 and 13.7 grams per tonne silver respectively (Minister of Mines Annual Report 1923, pages A197, A198).

#### **BIBLIOGRAPHY**

EMPR AR 1890-373; 1891-568; 1892-535,536; 1893-1064; 1894-748; 1895-672; 1896-556; \*1898-1048,1049; \*1923-A197,A198; 1934-E27; 1936-E26-E28,E32,E33; 1966-236

EMPR ASS RPT 865

EMPR FIELDWORK 2000, pp. 231-252

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 4-1961; 43-1962

GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/08/18 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 008

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 009

NATIONAL MINERAL INVENTORY: 082N3 Pb1

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5654098 EASTING: 489756

TREND/PLUNGE:

REPORT: RGEN0100

1014

NAME(S): **CROWN POINT**, MCMURDO CREEK, A, B, RIALTO, BLUFF,

GOLD, REGINA (L.11631)

NEW CROWN POINT (L.11630), PRESIDENT (L.6650)

STATUS: Past Producer Underground MINING DIVISION: Golden

REGIONS: British Columbia

NTS MAP: 082N03E BC MAP:

LATITUDE: 51 02 18 N LONGITUDE: 117 08 46 W ELEVATION: 2286 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Underground workings on Lot 11630, at the head of McMurdo Creek, a northeasterly flowing tributary of the Spillimacheen River, about 30 kilometres south-southwest of Golden (Minister of Mines Annual Report

1932, page A161).

COMMODITIES: Lead Silver 7inc Gold

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Sphalerite

Siderite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated **Podiform** Vein Massive

CLASSIFICATION: Replacement **Epigenetic** Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 J01 Polymetallic manto Ag-Pb-Zn E14

Sedimentary exhalative Zn-Pb-Ag DIMENSION: 103 x 15 Metres STRIKE/DIP:

COMMENTS: A zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Horsethief Creek STRATION Hadrynian STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Limestone

Slate Schist Quartzite Grit

Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Purcell Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: A SHOWING REPORT ON: Y

> CATEGORY: YEAR: 1948 Indicated

QUANTITY: 35857 Tonnes

**GRADE** COMMODITY 117.2000 Silver Grams per tonne

6.2400 Per cent Lead 0.1800 Per cent

REFERENCE: Northern Miner - August 20, 1970.

CAPSULE GEOLOGY

The Crown Point property is located between the 1828 to 2438 metre elevation at the head of McMurdo Creek, a northeasterly flowing tributary of the Spillimacheen River, about 30 kilometres south-southwest of Golden. Early work on the property consisted of surface stripping, adits and raises carried out at five locations. The most extensive are at the A showing at the 2069-metre elevation. Located northwesterly from the A showing are the Rialto, B, Bluff and C showings. The C workings are on the northwest side of a small tributary of McMurdo Creek about 1.2 kilometres northwest of the A workings and 91 metres higher. A series of veins known as the Gold showing are located about 800 metres southeast of the A workings at an elevation of about 2286 metres. The B showing lies 548 metres

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

northwest of the A showing; the Bluff showing lies west of the B showing. The Rialto showing is located 304 metres northwest of the A showing.

By 1936, the A workings comprised 4 adits and 5 raises totalling 762 metres of underground development and are located on the Regina (Lot 11631), New Crown Point (Lot 11630) and President (Lot 6650) claims. The B workings consist of a 7-metre adit and opencuts; the Bluff workings, 2 short adits; the C workings, about 97 metres of drifts and crosscuts in 3 adits; and the Rialto, an adit.

Hostrocks on the property consist of schists, quartzites, grits and limestone of the Hadrynian Horsethief Creek Group. They are folded into a broad anticline with, apart from local anomalies, moderate to gently dipping limbs. The crest of this anticline, one of a series of open rolls, can be seen several kilometres to the northwest and also to the southeast, across "Bobbie Burns Basin" where the Robert E. Burns (082N 008) and Flying Dutchman (082N 006) occurrences are located. The dominant cleavage is nearly vertical, axial to the anticline.

The most important mineralization is at the A showing and is hosted in limestone on the southwest limb of the main anticline. The limestone and enclosing slate are complexly dragfolded, crumpled and faulted. About 7 to 12 metres of limestone and limy strata are involved in a series of asymmetrical dragfolds that are cut by faults of relatively small displacement. An ore zone, only the fringes of which are exposed in an adit, consists of stringers, pods and lenses of galena and lesser sphalerite, pyrite and siderite; the sulphides vein and replace the limestone. In 1948, the A zone was established as being 103 metres long, 15 metres wide and 7 metres thick. The same zone has, according to early reports, about 35,857 tonnes of indicated ore grading 117.2 grams per tonne silver, 6.24 per cent lead and 0.18 per cent zinc (Northern Miner - August 20, 1970).

The C showing, 1.2 kilometres north of the A showing, consists

The C showing, 1.2 kilometres north of the A showing, consists of an irregular quartz vein in quartzite and schist. The C vein is related to an irregular, sharp crumple and is exposed for a length of about 22 metres on a steep slope. The vein is from several centimetres to 3 metres wide and contains pods and lenses of galena-sphalerite-pyrite. At the upper end of a stripped area the vein splits, and the branches appear to be very irregular. A sample of selected mixed sulphides assayed 12.3 grams per tonne gold, 377 grams per tonne silver, 23.3 per cent lead and 0.2 per cent zinc (Minister of Mines Annual Report 1936, page E37).

Just beneath a small glacier, several quartz veins, known as the Gold showings, occur in an area about 37 square metres. These veins are on the crest of the anticline and for the most part are axial to it, although some have a northerly or easterly strike. The veins are from a few centimetres to as much as 3 metres wide and are very sparsely mineralized with pyrite. The veins are hosted in quartzite, which is about 30 metres thick; most of the veins pinch out in underlying schist. The veins may represent fracture fillings in the shattered, more competent rock in the anticlinal crest.

The B showing lies 548 metres northwest of the A showing and comprises a quartz vein hosted in flat-lying grey schist with some local limestone evident. The vein varies from 15 to 91 centimetres wide, and splits into two branches to the east. Mineralization consists of galena and pyrite.

The Bluff showing lies west of the B showing and is underlain by

The Bluff showing lies west of the B showing and is underlain by schist and limestone in fault contact. The limestone is impregnated with disseminated grains of galena and sphalerite. Some of the better disseminated mineralization assayed 34.2 grams per tonne silver, 2.5 per cent lead and 9.6 per cent zinc (Minister of Mines Annual Report 1936, page E37).

Annual Report 1936, page E37).

The Rialto showing is located 304 metres northwest of the A showing. An outcrop of numerous, narrow, pyritic quartz stringers aggregating 7.6 metres in width cut across the schistosity of the host chlorite schist. A grab sample from a 4.5-tonne dump of sorted pyritic quartz at the mouth of the Rialto tunnel assayed 5.4 grams per tonne gold and 13.7 grams per tonne silver (Minister of Mines Annual Report 1932, page A160).

## **BIBLIOGRAPHY**

EMPR AR 1890-364; 1895-673; 1898-1052-1054; 1899-594; 1909-K272; 1928-C275; 1929-C285,C290,C291; 1930-A232-A234; \*1932-A160,A161; \*1936-E25-E28,E33-E37; 1947-A177; 1948-A152; 1949-A204,A205

EMPR BC METAL MM00554

EMPR FIELDWORK 2000, pp. 231-252

EMPR PF (82N General File - Prospector's map, 1937; Surface geology map of a portion of the McMurdo Creek property; Plan of the surface geology of the A workings)

EMR MIN BULL MR 223, B.C. 83

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMR MP CORPFILE (Beverly Mines, Limited; New Chemcrude Resources Ltd.)
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32
CANMET IR 2575 (1949)
N MINER \*Aug.20, 1970

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/25 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 009

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 010

NATIONAL MINERAL INVENTORY: 082N3 Pb2

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5650475 EASTING: 496336

PAGE:

REPORT: RGEN0100

1017

NAME(S): DIAMOND E (L.543), NO. ONE (L.542), CARBONATE MOUNTAIN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N03E BC MAP:

LATITUDE: 51 00 21 N LONGITUDE: 117 03 08 W ELEVATION: 2347 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 543, located on the east side of the east fork of Carbonate Creek about 2 kilometres south of Bobbie Burns Creek, approximately 32 kilometres south of Golden (NTS Map 82N/3E).

COMMODITIES: Lead Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Hadrynian Horsethief Creek Undefined Formation

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Purcell Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Diamond E (Lot 543) occurrence is located on the east side of the east fork of Carbonate Creek about 2 kilometres south of Bobbie Burns Creek, approximately 32 kilometres south of Golden.
Old showings of small lenticular quartz veins in grey slate and
buff grit of the Hadrynian Horsethief Creek Group were stripped along the road between elevations of 2286 to 2438 metres (Minister of Mines Annual Report 1967, page 266). Mineralization consists of

argentiferous galena and tetrahedrite.

**BIBLIOGRAPHY** 

EMPR AR 1888-310,311; 1896-556; 1936-E37; 1966-236; \*1967-266 EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

FIELD CHECK: N DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: GO DATE REVISED: 1993/08/17 FIELD CHECK: N

MINFILE NUMBER: 082N 010

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 011 NATIONAL MINERAL INVENTORY: 082N4 Pb2

 $\label{eq:NAME} \mbox{NAME(S): } \frac{\mbox{DONALD}}{\mbox{WOOLSEY}}, \mbox{ROUND HILL, ROUND HILL (L.201)},$ 

STATUS: Prospect Underground MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 14 25 N LONGITUDE: 117 41 41 W NORTHING: 5676775 EASTING: 451504 ELEVATION: 1676 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shafts and adit on Lot 201 (survey cancelled), located on the east Sharts and and off Ede 2017 (Salvey Carlottelled), located of the east slope of Fidelity Peak about 1 kilometre west of Bostock Creek, in Glacier National Park, 2.5 kilometres north-northwest of Flat Creek Station of the Canadian Pacific Railway, about 54 kilometres west of Golden (Geological Survey of Canada Summary Report 1928 Part A, page

172).

COMMODITIES: Lead Silver 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Pvrite Pvrrhotite Sphalerite Chalcopyrite Galena Siderite Ankerite

ASSOCIATED: Quartz ALTERATION: Sericite ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Podiform Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** 

Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation Unnamed/Unknown Informal Jurassic

LITHOLOGY: Porphyritic Granodiorite

Quartzite Mica Schist Phyllite Slate

Hornblende Granite Dike Granite Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Plutonic Rocks

Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Grab COMMODITY

**GRADE** Silver 113.1000 Grams per tonne Gold 0.6800 Grams per tonne Lead 4.0000 Per cent Per cent 1.5000

COMMENTS: Sample of mineralized quartz vein.

REFERENCE: Minister of Mines Annual Report 1929, page C333.

CAPSULE GEOLOGY

The Donald workings are located on the east slope of Fidelity Peak about 1 kilometre west of Bostock Creek, in Glacier National Park, 2.5 kilometres north-northwest of Flat Creek Station of the Canadian Pacific Railway, about 54 kilometres west of Golden.

The original claim on the property was staked in the late 1880s and the first recorded work was performed in 1896 with sporadic development until 1929. Workings consist of a shaft, a short adit and several opencuts on the Round Hill claim (Lot 201, survey cancelled); and two other shallow shafts, numerous opencuts and a

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

274-metre long crosscut adit.

The property is underlain by a small Middle and/or Late Jurassic stock of porphyritic granodiorite which intrudes a series of Lower Paleozoic quartzites, mica schists, phyllites and slates that strike from northwest to north and dip steeply east or west. Hornblende granite and granite aplite dikes are also evident. Mineralization occurs in three major, and several minor quartz-siderite-ankerite veins which cut the granodiorite. Sulphides consisting of pyrite pyrrhotite, sphalerite, galena and chalcopyrite occur as irregular bodies (up to 3.3 metres) or stringers, in and alongside the quartz veins. Near some of the veins, wallrocks are extensively bleached and sericitized.

The most important vein is the westerly one and has been developed by two shafts, three or four opencuts and a short drift. The vein is 0.9 to 3 metres wide, strikes northerly and dips

irregularly but generally steeply west.

In 1929, a quartz vein was exposed about 30 metres southeast of the most northerly shaft that explores the main vein. The vein is 7.3 metres wide and is mineralized with pyrrhotite, pyrite, galena, sphalerite and very minor chalcopyrite. A sample across the vein analysed 0.68 gram per tonne gold, 113.1 grams per tonne silver, 4 per cent lead and 1.5 per cent zinc (Minister of Mines Annual 1929, page C333).

#### **BIBLIOGRAPHY**

EMPR AR 1889-279; 1896-539,560; 1898-1062; 1899-677; 1900-811; 1916-K193; 1917-F182; 1924-B204; 1928-C313; 1929-C333,C334 EMPR BC METAL MM00644 EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E, 4W, 1976; \*Report of Mine Examination by K.J. Christie, 1950; \*Geological Report by H.C. Gunning, 1929;

Results of assays (1949); Various memoranda; Plan and geolgoy of underground workings, 1929; Prospectus, The Woolsey Group of Mineral claims, The Glasair Mining Corporation Limited; Property description by H.L. Batten, 1928) GSC MAP 237A; 4-1961; 43-1962

GSC OF 481

GSC P 62-32

GSC SUM RPT \*1928 Part A, pp. 142,147,156,172-175

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/12 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIFLD CHECK: N

PAGE:

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 012

NATIONAL MINERAL INVENTORY: 082N4 Pb6

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5674822 EASTING: 448925

PAGE:

REPORT: RGEN0100

1020

NAME(S): LANARK (L.1592A), LANARK MINE, MAPLE LEAF (L.1562)

STATUS: Past Producer REGIONS: British Columbia Underground

NTS MAP: 082N04E BC MAP:

LATITUDE: 51 13 21 N LONGITUDE: 117 43 53 W ELEVATION: 1699 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Tunnel B on Lot 1592A, on the southerly slope of Fidelity Peak 2 kilometres north of the Trans-Canada Highway, about 1 kilometre west of Glacier National Park, 58 kilometres west of Golden (Property File

- Plan map of mine workings).

COMMODITIES: Lead Silver 7inc Gold Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Tetrahedrite Chalcopyrite Calcite Carbonate

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Replacement Massive

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau Undefined Formation

LITHOLOGY: Argillaceous Limestone

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: YFAR: 1990 Assay/analysis

SAMPLE TYPE: Channel

COMMODITY Silver **GRADE** 504.9000 11.5000 Grams per tonne Per cent I ead Per cent

7inc 15.3000 COMMENTS: Sample across 0.33 metre of massive galena.

REFERENCE: Assessment Report 21390.

CAPSULE GEOLOGY

The Lanark property is underlain primarily by thin bedded, dark, incompetent slates interbedded with lesser amounts of thinly bedded, dark, argillaceous limestones, of the Lower Cambrian and younger Lardeau Group. The bedding strikes between 320 and 340 degrees and dips from 50 to 60 degrees to the northeast. The limestone is the hostrock for the deposit and has been partly to completely replaced

by silica, locally. Replacement-type quartz veins are mineralized with massive argentiferous galena, sphalerite, pyrite, and minor tetrahedrite and chalcopyrite. Calcite and silicified and crushed limestone wallrock also forms part of the gangue. The veins are often folded, averaging 35 to 45 degree dips to the east-northeast. The veins apparently flatten towards the summit of the mountains. Most of the veins are parallel with the bedding, but also pass from one bedding plane to another.

The mine workings developed a vein about  $7.6\,\mathrm{metres}$  wide in the upper levels, which decreased to  $1.5\,\mathrm{metres}$  wide in the lower workings. Two shafts and three adits explored the extension of the Lanark main vein system on the adjoining Maple Leaf claim (Lot 1562).

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

A channel sample across 0.33 metre of massive galena from a trench in the vicinity of the Lanark shaft analysed 504.9 grams per tonne silver, 15.3 per cent zinc and 11.5 per cent lead. At another location on the property a rock sample analysed up to 3 grams per tonne gold (Assessment Report 21390).

The Lanark claim was staked about 1883. By 1888, an incline shaft was sunk on the vein for 30 metres, with about 152 metres of tunnels completed on the 30 and 122 metre levels, and 91 metres of drifting. Development continued until 1893. The property was re-opened in 1896. All available ore was stoped out and work was suspended prior to 1900. In 1915, more ore was discovered and mined out by 1923. In 1925, all work ceased and the plant dismantled.

The mine comprised adits and raises to a depth of 122 metres and below that by a winze 42 metres deep with a drift at the bottom.

#### **BIBLIOGRAPHY**

EMPR AR 1887-266; 1888-304,323; 1889-279; 1890-364; 1891-565; 18931050; 1895-692; 1896-538,539; 1897-464,528,529,572,619; 1899-678;
1903-H107; 1913-K122; 1914-K243; 1915-K117,K446; 1916-K193,K517;
1917-F152,F182; \*1918-K153,K155,K189,K190; 1919-N140; 1920-N127,
N142; 1921-G152,G168; 1922-N212; 1924-B204; 1925-A259

EMPR ASS RPT 21118, \*21390

EMPR BC METAL MM00615

EMPR PF (82N General File - Canadian Superior Exploration
geochemistry maps, 82N/4E,4W, 1976; \*Plan maps and cross-sections
of Lanark mine workings, location map of claims (1897))

GSC ANN RPT 1892-93 Volume VI, p. 59R

GSC MAP 237A; 4-1961; 43-1962

GSC OF 481

GSC P 62-32

GSC SUM RPT \*1928 Part A, pp. 142,154,187,188

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/09/14 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 012

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 013

NATIONAL MINERAL INVENTORY: 082N4 Ag5

PAGE:

REPORT: RGEN0100

1022

NAME(S): **DUNVEGAN**, ALMA

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Revelstoke

NTS MAP: 082N04E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 07 11 N LONGITUDE: 117 36 56 W ELEVATION: 1219 Metres NORTHING: 5663319 EASTING: 456918

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Lot 7636 in Glacier National Park, on Bain Brook, 1.5

kilometres from its confluence with the Incomappleux River, about 50 kilometres east-northeast of Revelstoke (NTS Map 82N/4E Edition 2; Minister of Mines Annual Report 1918, page K157).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

Sphalerite

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au DIMENSION: 3 STRIKE/DIP: 355/50E TREND/PLUNGE: Metres

COMMENTS: Dunvegan vein.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Lardeau Undefined Formation

LITHOLOGY: Slate

Calcareous Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1918 Assay/analysis

**COMMODITY GRADE** 

2502.0000 65.2000 Silver Grams per tonne Per cent I ead Per cent 7inc 7.2000

COMMENTS: A sample from a small pile of carefully sorted ore from the uppermost tunnel.

REFERENCE: Minister of Mines Annual Report 1918, page K157.

**CAPSULE GEOLOGY** 

The Dunvegan occurrence is located in Glacier National Park, on Bain Brook, 1.5 kilometres from its confluence with the Incomappleux

, about 50 kilometres east-northeast of Revelstoke.
The Dunvegan vein strikes 355 degrees and dips 50 degrees east, and is hosted in a shear zone in slate and calcareous shale of the Lower Cambrian and younger Lardeau Group. The vein is reported to have been 2.4 to 3 metres wide. Mineralization consists of galena and application in a great of intermed and application.

and sphalerite in a quartz (inferred) gangue. Two adit tunnels were driven about 33 metres apart vertically to exploit the vein. Another short tunnel was driven only 4.5 metres vertically above the lower adit. The lower tunnel was driven for 60 metres, the uppermost tunnel for 21 metres, and the middle tunnel for 15 metres. A sample from a small pile of carefully selected ore from the uppermost tunnel analysed 2502 grams per tonne silver, 65.2 per cent lead and 7.2 per cent zinc (Minister of Mines Annual Report 1918, page K157).

The Alma claim covered a southwesterly extension of the Dunvegan vein and an adit was driven for 30 metres.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1889-280; 1890-365; 1893-1050; 1896-539; 1899-677; 1917-F153,F182; \*1918-K157,K158; 1925-A259; 1929-C334 EMPR BC METAL MM00599 EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/20 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 013

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 014 NATIONAL MINERAL INVENTORY: 082N5 Ag2

NAME(S): WAVERLEY (L.3597), MONTAGUE (L.3596), WAVERLEY-TANGIER

Underground MINING DIVISION: Revelstoke

STATUS: Developed Prospect REGIONS: British Columbia NTS MAP: 082N05W BC MAP:

UTM ZONE: 11 (NAD 83)

LATITUDE: 51 27 00 N LONGITUDE: 117 57 35 W ELEVATION: 1829 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits on Lot 3597, located 1.75 kilometres southeast of the confluence of Sorcerer and Holway creeks, on the western slope of Sorcerer Mountain, about 56 kilometres northeast of Revelstoke. The Tangier occurrence (082N 015) lies 750 metres to the west (Geological

Survey of Canada Summary Report 1928 Part A, page 176).

COMMODITIES: Lead Silver Gold 7inc Copper

**MINERALS** 

SIGNIFICANT: Galena Smithsonite Tetrahedrite Anglesite Cerussite ASSOCIATED: Carbonate Calcite Quartz ALTERATION: Limonite Malachite Azurite Anglesite Cerussite

Smithsonite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Podiform Vein Shear

CLASSIFICATION: Replacement TYPE: I05 Polyn Polymetallic veins Ag-Pb-Zn±Au J01 Polymetallic manto Ag-Pb-Zn

SHAPE: Cylindrical DIMENSION: 114 x 21 Metres STRIKE/DIP: TREND/PLUNGE: x 12 COMMENTS: Largest oreshoot.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Unnamed/Unknown Group Unnamed/Unknown Formation

LITHOLOGY: Limestone

Quartzite

Argillaceous Schist

Carbonaceous Graphitic Schist

**Phyllite** 

Talcose Sericitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

**GRADE** 

TERRANE: Kootenay Ancestral North America

INVENTORY

ORE ZONE: ORE SHOOT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Chip COMMODITY

606.7000 Silver Grams per tonne 5.8000 Per cent Lead

COMMENTS: Average assays for samples taken from the main oreshoot over an

average width of 2 metres and a length of about 21 metres.

REFERENCE: Special Bulletin (1928), Report on the Waverley Property by Galloway.

**CAPSULE GEOLOGY** 

The Waverley occurrence is located 1.75 kilometres southeast of the confluence of Sorcerer and Holway creeks, on the western slope of Sorcerer Mountain, about 56 kilometres northeast of Revelstoke. The Tangier occurrence (082N 015) lies 750 metres to the west.

The property is underlain by northwest striking and steep (60 to 90 degrees) northeast dipping Lower Cambrian strata comprised of light grey, coarsely crystalline limestone with argillaceous and siliceous varieties, fine-grained quartzites, argillaceous and carbonaceous to graphitic schists and phyllites, and minor grey talcose and sericitic schists. Complex minor folding, shear zones and fissures are common.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

At the Waverley "mine", two replacement vein-like orebodies have been explored and developed by underground workings that total 914 lineal metres. The principal workings crosscut and develop an oreshoot on the Waverley claim (Lot 3597) throughout a vertical depth of about 114 metres. This oreshoot has an apparent average length of 21 metres and a maximum width of about 12 metres and is developed by the No. 2 and 3 tunnels and connecting winze and raise from which three intermediate levels have been driven. The No. 1 tunnel and winze explores the other oreshoot or "Montague vein". About 228 metres to the northwest of the No. 1 tunnel, a short crosscut adit and winze on the Montague claim (Lot 3596) has exposed about 1.2 metres of oxidized ore on a northwest strike continuation of the "Montague vein".

Average assays for samples taken from the main oreshoot on the Waverley claim were 5.8 per cent lead and 606.7 grams per tonne silver over an average width of 2 metres and a length of about 21 metres (Special Bulletin (1928), Report on Waverley-Tangier Property, by J.D. Galloway). A sample of ore from the No. 2 tunnel analysed 4.1 grams per tonne gold, 1588.1 grams per tonne silver, 2.1 per cent lead, 26.7 per cent zinc and 1.35 per cent copper (Geological Survey of Canada Summary Report 1928 Part A, page 179).

The ore occurs in well-defined fissures and replaces dark grey or black fine-grained limestone and is found as irregular bodies more or less elongated along predominant shear and fault zones that trend about 320 degrees. Veins of quartz and calcite, striking more northerly than the main oreshoots, are barren in most places.

The ore is highly oxidized and consists of limonite, anglesite,

The ore is highly oxidized and consists of limonite, anglesite, cerussite, malachite, azurite, smithsonite and occasional nodules of galena and tetrahedrite in a gangue of decomposed limestone, calcite and guartz.

Most of the underground work on the Waverley property was performed between 1896 and 1898 by Gold Fields of British Columbia, an English company. The operation was closed down in 1899 and was idle until 1918. Some development took place in the summer months between 1918 and 1921.

### **BIBLIOGRAPHY**

EMPR \*Special Bulletin (1928), Report on Waverley-Tangier Property by
J.D. Galloway, pp. 17,18)

EMPR AR 1896-543,544; 1898-1062; 1915-K117; 1919-N140; 1920-N127;
 \*1921-G156-G159; 1923-A232; 1924-B204; 1925-A259; 1929-C333; 1951A193

EMPR PF (Structural plans of individual levels (1925); Cross-sections
 of mine workings (1925))

EMR MP CORPFILE (Waverley-Tangier Mines, Limited)

GSC MAP 237A; 4-1961; 43-1962

GSC OF 481

GSC P 62-32

GSC SUM RPT \*1928 Part A, pp. 154, 175-182

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 015

NATIONAL MINERAL INVENTORY: 082N5 Ag2

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NAME(S): TANGIER (L.3600), WAVERLEY-TANGIER

STATUS: Developed Prospect REGIONS: British Columbia Underground MINING DIVISION: Revelstoke

NTS MAP: 082N05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 27 04 N LONGITUDE: 117 58 09 W ELEVATION: 1463 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft, located along Sorcerer Creek immediately below and west of the Waverly workings (082N 014), about 1 kilometre southeast of the confluence of Sorcerer and Holway creeks, on the west slope of Sorcerer Mountain, about 56 kilometres northeast of Revelstoke (Geological Survey of Canada Summary Report 1928 Part A, page 176).

Zinc COMMODITIES: Lead Silver Gold Copper

Antimony

**MINERALS** 

SIGNIFICANT: Pyrite Jamesonite Galena Sphalerite Tetrahedrite Quartz

ASSOCIATED: Calcite
MINERALIZATION AGE: Unknown Carbonate

DEPOSIT CHARACTER: Vein CLASSIFICATION: Replacement Podiform

Polymetallic veins Ag-Pb-Zn±Au J01 TYPE: 105 Polymetallic manto Ag-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Unnamed/Unknown Group Unnamed/Unknown Formation

NORTHING: 5700438

EASTING: 432656

LITHOLOGY: Marble

Limestone

Carbonaceous Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay **Ancestral North America** 

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> YEAR: 1921 Assay/analysis

CATEGORY: SAMPLE TYPE: Grab

**COMMODITY GRADE** Silver 548.4000 2.0500 Grams per tonne Gold Grams per tonne

Per cent Lead 8.5000 Zinc 5.0000 Per cent

COMMENTS: Ore dump near a shaft.

REFERENCE: Minister of Mines Annual Report 1921, page G159.

**CAPSULE GEOLOGY** 

The Tangier occurrence is located along Sorcerer Creek immediately below and west of the Waverley workings (082N 014), about 1 kilometre southeast of the confluence of Sorcerer and Holway creeks, on the west slope of Sorcerer Mountain, about 56 kilometres northeast of Revelstoke.

At the Tangier workings, Lower Cambrian strata comprising a considerable thickness of pyritic black carbonaceous schist is in contact with a band of white to grey marble at least 36 metres wide. The marble strikes 330 to 325 degrees and dips very steeply east or is vertical and also contains at least two small bands of black carbonaceous schist. A vein-like oreshoot occurs in the marble, between two fault walls, at or near the marble-schist contact. The replacement mineralization is composed of calcite and some quartz and  $\frac{1}{2}$ a fine-grained mixture of pyrite, jamesonite, galena, sphalerite and minor amounts of tetrahedrite. The width of the oreshoot varies from 0.4 to 1.8 metres, averaging 0.6 metre. Some mineralization occurs in the schist to the west of the oreshoot. Large calcite/quartz veins and lenses also occur and contain minor amounts of pyrite.

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

ore at Tangier differs from the Waverley in that there is not much evidence of oxidation.

Several hundred metres to the northwest of the Tangier shaft, which explores the mineralized zone, quartz veins and stringers across about 15 metres of limestone are mineralized with tetrahedrite and minor pyrite, sphalerite and galena.

The development on the Tangier property consists of a double-compartment shaft about 33 metres deep, 243 to 274 metres of tunnelling in two drifts and an adit, and a 30-metre winze.

Ore piled on a dump near the shaft amounts to "several hundred tons", and consists of galena, sphalerite, pyrite and small amounts of tetrahedrite in a gangue of quartz, calcite and limestone. A grab sample from this large pile assayed 2.05 grams per tonne gold, 548.4 grams per tonne silver, 8.5 per cent lead and 5 per cent zinc. A separate pile (roughly estimated at 181 tonnes) near the shaft dump consists of black decomposed ore and apparently came from the winze below the 30-metre level. A grab sample of this material assayed 8.2 grams per tonne gold, 726.7 grams per tonne silver, 8.5 per cent lead and 15 per cent zinc (Minister of Mines Annual Report 1921, page G159).

It is reported that about 13 tonnes of carefully hand-picked sulphide ore was shipped to Wales which yielded 51.4 grams per tonne gold, 4456.4 grams per tonne silver and 25 per cent lead (Geological Survey of Canada Summary Report 1928 Part A, page 182).

#### **BIBLIOGRAPHY**

EMPR \*Special Bulletin (1928), Report on Waverley-Tangier Property by J.D. Galloway, pp. 18,19)

EMPR AR 1896-544; 1898-1062; 1915-K117; 1919-N140; 1920-N127; \*1921-G159; 1924-B204; 1925-A259; 1929-C333; 1951-A193

EMR MP CORPFILE (Waverley-Tangier Mines, Limited)

GSC MAP 237A; 4-1961; 43-1962

GSC OF 481

GSC P 62-32

GSC SUM RPT \*1928 Part A, pp. 154, 175-182

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 016

NATIONAL MINERAL INVENTORY: 082N4 Pb4

NAME(S): ALLCO, IRON CAP, LIMESTONE DIKE, ALLCO SILVER, LIMESTONE DIKE NO. 3 (L.14858)

STATUS: Past Producer Underground MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04W

BC MAP:

LATITUDE: 51 13 27 N LONGITUDE: 117 59 04 W ELEVATION: 1889 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: No. 2 adit on Lot 14858 (Limestone Dike No. 3), located at the

headwaters of Woolsey (Silver) Creek, 13.5 kilometres northwest of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres

north-northeast of Revelstoke (Assessment Report 16907).

COMMODITIES: Lead

Tin

Silver

Zinc

Gold

Copper

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5675214 EASTING: 431256

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1028

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Sphalerite Carbonate Chalcopyrite Pyrite

Tetrahedrite Arsenopyrite

Stannite

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Replacement

Stockwork ement Epigenetic Polymetallic veins Ag-Pb-Zn±Au Stratiform Sedimentary Massive

J01 Polymetallic manto Ag-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Lower Cambrian Paleozoic

Undefined Group

Lardeau

**FORMATION** Badshot

**Undefined Formation** 

LITHOLOGY: Limestone

TYPE: 105

Siliceous Limestone Ortho Quartzite

Argillite

Argillaceous Limestone Silty Limestone Limestone Conglomerate Graphitic Argillite

Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1986

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

**COMMODITY** 

GR<u>ADE</u>

4.8000

1216.0000 Grams per tonne 15.0000 Per cent

Per cent

Silver Lead Zinc

COMMENTS: Average assays of high-grade samples.

REFERENCE: Assessment Report 15559.

CAPSULE GEOLOGY

The Allco property is located at the headwaters of Woolsey (Silver) Creek, 13.5 kilometres northwest of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres north-northeast of

Revelstoke.

The occurrence area is underlain by strata of the Lower Cambrian Badshot Formation and Lower Cambrian and younger Lardeau Group. Five stratigraphic units have been identified and consist of: 1) massive grey limestone; 2) a 9-metre marker unit consisting of buff, siliceous limestone at the base grading upward into black orthoquartzite; 3) dark grey, thinly bedded argillite and argillaceous limestone (this unit is about 30 metres thick); 4) distinct buff, silty limestone and limestone conglomerate (maximum

> MINFILE NUMBER: 082N 016

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

thickness of 60 metres); and 5) black, slaty, graphitic argillite and phyllite of considerable unknown thickness.

Units 1 through 4 are equated with the Badshot Formation and unit 5 with the Lardeau Group. The four units of the Badshot Formation have an average strike of 282 degrees and 44 degrees north dip in the central part of the area, changing to 314 degrees strike and 60 degrees north dip in the northwest part. A major northwest trending fault separates the underlying Badshot Formation from the Lardeau Group.

Numerous showings of galena, sphalerite, chalcopyrite, tetrahedrite and pyrite occur within limestone in an area of approximately 3000 by 500 metres, trending northwest. Four distinct modes of mineralization have been found either in the buff limestone unit or along the contact between the buff and grey units and comprise: 1) stratiform, banded massive galena-sphaleritechalcopyrite lenses found along the contact of buff and grey limestone units (adit 4); 2) replacement, massive galena-sphalerite or sphalerite-pyrite-arsenopyrite veins and pods in joints and joint intersections (in and around adits 1, 2 and 3); 3) stockwork, massive galena-sphalerite accompanying quartz-carbonate veins in brecciated limestone (in trenches 100 metres west of adit 3); and 4) locally occurring galena, sphalerite and pyrite in a 1-2 metre wide quartz vein found intermittently along a major fault.

Small percentages of tin associated with galena were reported from underground workings and is probably due to the presence of

stannite.

Average assays of high grade chip samples were 15 per cent lead, 4.8 per cent zinc and 1216 grams per tonne silver (Assessment Report 15559).

Major exploration and development work was carried out between 1934 and 1937 by Allco Silver Mines, Limited during which some ore shipments were made. The development work included 282 metres of drifts and crosscuts in 4 adits, a 20-metre shaft and a 15-metre winze.

#### **BIBLIOGRAPHY**

EMPR AR 1919-N141; 1927-C290; 1930-A260; 1931-A149-A151; 1933-A212; \*1935-E19-E21; 1937-A40,E56 EMPR ASS RPT 12041, 13288, 14403, \*15559, \*16907 EMPR BC METAL MM00589 EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976) EMR MP CORPFILE (Allco Silver Mines, Limited) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32 GSC SUM RPT 1928 Part A, p. CANMET IR 771, p. 222 (1935) 165

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/28 FIELD CHECK: N CODED BY: GSB REVISED BY: GO

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: <u>082N\_017</u> NATIONAL MINERAL INVENTORY: 082N5 Ag1

NAME(S): **GEORGE** 

STATUS: Prospect Underground MINING DIVISION: Revelstoke REGIONS: British Columbia

NTS MAP: 082N05W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 21 18 N

LONGITUDE: 117 51 16 W

EASTING: 440503

ELEVATION: 1371 Metres

ELEVATION: 1371 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: The occurrence is situated 500 metres east of the Tangier River and

about 250 metres north of its confluence with Moloch Creek, approximately 50 kilometres northeast of Revelstoke (Geological Survey of Canada Summary Report 1928 Part A, page 191).

COMMODITIES: Silver Gold Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Boulangerite Tetrahedrite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au J01 Polymetallic manto Ag-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Lower Cambrian Unnamed/Unknown Group Unnamed/Unknown Formation

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay Ancestral North America

CAPSULE GEOLOGY

The George occurrence is situated 500 metres east of the Tangier River about 250 metres north of its confluence with Moloch Creek,

approximately 50 kilometres northeast of Revelstoke.

Lower Cambrian dull grey, flaggy crystalline limestone with slaty intercalations strikes 345 degrees and dips 30 to 50 degrees east. Irregular lenticular quartz-calcite veins, up to 20 centimetres wide, cut the limestone and are mineralized with pyrite, sphalerite and galena. A mineral, thought to be tetrahedrite in the field, resembles boulangerite under the microscope (Geological Survey)

sphalerite and galena. A mineral, thought to be tetrahedrite in the field, resembles boulangerite under the microscope (Geological Survey of Canada Summary Report 1928 Part A, page 191).

In the period 1896 to 1898, the vein was stripped for 60 metres and an adit driven 48 metres to cut the vein at depth. A winze, depth unknown, was sunk from the adit. These workings were badly caved when examined in 1928. In 1899, a 3.6-tonne shipment of selected ore was sent to the Trail smelter for testing and yielded "satisfactory" assays in gold, silver and copper. In August 1903, 5.5 tons was shipped to the Trail smelter and gave returns of \$110 per ton; in November of the same year, 2.5 tons was sent to Tacoma and gave returns of \$116 per ton, mainly in silver respectively (Geological Survey of Canada Summary Report 1928 Part A, page 191).

**BIBLIOGRAPHY** 

EMPR AR 1898-1062; 1899-677; 1903-H108, H109; 1929-C333; 1968-264

GSC MAP 237A; 4-1961; 43-1962

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GSC SUM RPT \*1928 Part A, pp. 156, 191

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082N 018

NATIONAL MINERAL INVENTORY:

NAME(S): QUARTZ CREEK PLACER, QUARTZ CREEK, PORCUPINE CREEK

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N06W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

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LATITUDE: 51 24 01 N LONGITUDE: 117 18 53 W ELEVATION: 1737 Metres NORTHING: 5694386 EASTING: 478107

IGNEOUS/METAMORPHIC/OTHER

ELEVATION: 1737 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Quartz Creek is 9 kilometres east of, and parallels the Beaver River, flowing north-northwest and joins the Columbia River about 30

kilometres northwest of Golden (Geological Survey of Canada Summary

Report 1932 Part A II, page 170).

COMMODITIES: Gold Lead Copper Silver

**MINERALS** 

SIGNIFICANT: Gold Galena Chalcopyrite Silver ASSOCIATED: Quartz Ankerite Pyrite Arsenopyrite

ALTERATION: Ankerite
ALTERATION TYPE: Carbonate
MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated Vein
CLASSIFICATION: Placer Epigenetic Hydrothermal

TYPE: C01 Surficial placers

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

Quaternary Unnamed/Unknown Group Hadrynian Horsethief Creek

Unnamed/Unknown Group
Horsethief Creek
Unnamed/Unknown Formation
Undefined Formation

LITHOLOGY: Gravel Phyllite

Slate Limestone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

**FORMATION** 

TERRANE: Ancestral North America
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Quartz Creek is 9 kilometres east of, and parallels the Beaver River, and is bordered by the Prairie Hills to the west and the Dogtooth Range to the east, about 30 kilometres northwest of Golden. It flows north-northwest and joins the Columbia River. The locally named "Porcupine Creek" is a tributary to Quartz Creek and lies in a southward extension of the valley of the main stream. Gold has been recovered from the creek dating back to 1881 and continuing very intermittently to 1940; about 7992 grams of gold was recovered over this period.

Gold was recovered from a bench where the downstream end is opposite the junction of Quartz and "Porcupine" creeks. The bench starts at the 1737-metre elevation and extends southward (upstream) for about 3 kilometres to the 1798-metre elevation; throughout this length the bench ranges from 60 to 213 metres wide. The average depth of the glaciofluvial gravels is 1.8 metres, with overburden of forest decay and, occasionally peat, from 0.3 to 0.9 metre thick. The gravels are poorly sorted and consist of sand and pebbles in which there are many rounded and subangular boulders up to 0.9 metre in diameter. The rock fragments are representative of the strata of the basin: quartzites, limestones and slates. Beneath the gravels, disintegrated blue phyllite forms the bedrock. The gold found on the bench occurs in the gravels and in the disintegrated phyllite. Values of \$1 to \$2 a yard are said to have been obtained from the bench gravels (Geological Survey of Canada Summary Report 1932 Part A II, page 172).

Gold has also been recovered from an alluvial flat, the surface of which is 0.9 to 6 metres above the bed of the creek. Most of this ground is on the east side of the creek and ranges from 30 to 304

MINFILE NUMBER: 082N 018

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#### **CAPSULE GEOLOGY**

metres in width; the depth of alluvium is not known. The gravels are finer than that of the bench gravels.

The valley of Quartz and "Porcupine" creeks is underlain by

The valley of Quartz and "Porcupine" creeks is underlain by slates and phyllites which are overlain, as observed on the ridges, by limestone and quartzite, all of the Hadrynian Horsethief Creek Group. Many small veins and stringers of milky white quartz parallel the cleavage of the slates and phyllites and a number of stronger veins occur in the massive strata. Small amounts of pyrite and occasionally galena and chalcopyrite are found in the veins; the secondary development of ferruginous carbonate (ankerite) is pronounced in the enclosing strata. No native gold has been seen in any of the veins (Geological Survey of Canada Summary Report 1932 Part A II, page 172). Arsenopyrite, galena, chalcopyrite and native silver have been recovered from sluicing.

#### **BIBLIOGRAPHY**

EMPR AR 1884-424; \*1888-306; 1889-285; 1890-371; 1892-535; 1899-610, 663,664; 1900-802; 1926-A239; 1927-C264; 1929-C292; 1935-E36

EMPR ASS RPT 12761

EMPR BULL 28, pp. 35,36

GSC MAP 295A; 4-1961; 43-1962

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GSC SUM RPT \*1932 Part A II, pp. 170-172

DATE CODED: 1985/07/24 CODED BY: GSB
DATE REVISED: 1993/08/31 REVISED BY: GO

MINFILE NUMBER: 082N 018

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 019

NATIONAL MINERAL INVENTORY: 082N8 Zn1

PAGE:

NORTHING: 5696188

EASTING: 539097

REPORT: RGEN0100

1033

NAME(S): MONARCH, MONARCH MINE, MONARCH-KICKING HORSE, MONARCH (L.551), EAST MONARCH, WEST MONARCH,

COUVERAPÉE, ST. ETIENNE (L.2813)

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N08W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 51 24 56 N LONGITUDE: 116 26 16 W ELEVATION: 1615 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on a north-facing cliff of Mount Stephen in Yoho National Park,

just south of Highway 1, the Kicking Horse River and the Canadian Pacific Railway, 4 kilometres northeast of Field (Property File -

Proposed drilling and mine plan map, 1951).

COMMODITIES: Zinc Lead Silver Cadmium Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Gal COMMENTS: Trace chalcopyrite. Galena Chalcopyrite

ASSOCIATED: Pyrite ALTERATION: Dolomite ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Breccia Disseminated

Replacement Hydrothermal

TYPE: E12 Miss SHAPE: Tabular DIMENSION: 536 x 48 Mississippi Valley-type Pb-Zn

x 6 Metres STRIKE/DIP: TREND/PLUNGE: 165/8

COMMENTS: West Monarch orebody.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Cambrian Undefined Group Cathedral

LITHOLOGY: Dolomite

**Brecciated Dolomite** I imestone Carbonate Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

The Monarch and Kicking Horse (082N 020) deposits occur in the steep cliffs on either side of the Kicking Horse River, about 4 kilometres northeast of Field, in Yoho National Park. The Kicking Horse deposit is at the 1524-metre elevation on Mount Field on the north side of the river, and the East and West Monarch deposits are at the 1560 and 1621-metre elevations respectively, on Mount Stephen, on the south side of the river. The Monarch deposit was located in 1884 during construction of the Canadian Pacific Railway. The East Monarch ore zone was the first to be recognized, and the West Monarch zone, known originally as the Couverapee, was not discovered until about 1916. The original Couverapee property was owned by W.D. Adkins who shipped 20 tonnes in 1916. The workings consisted of one large pillared stope with some crosscutting and drifting. In 1919 there was litigation regarding boundaries between the owners of the Couverapee and (East) Monarch properties. A survey proved that the Couverapee was within the Monarch holdings and the two properties were amalgamated under the management of Mr. Adkins. The Couverapee and the original Monarch mine became known as the West and East Monarch, respectively. The Kicking Horse showings, known originally as the Black Prince, were mentioned briefly in old reports but received little attention until 1925.

The region is within the fold-and-thrust belt of the Cordillera. Although the structural style varies within the area, northeast directed thrust faults and associated folds and overturned folds with northwest axes dominate. The Monarch-Kicking Horse deposits occur in

> MINFILE NUMBER: 082N 019

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

a thick succession of massive to thin-bedded limestone and dolomite of the Middle Cambrian Cathedral Formation. Characteristically, the deposits are in close proximity to carbonate bank margins. The Monarch-Kicking Horse deposits are in platformal carbonates just east of a transition to basinal shale and limestone of the Middle Cambrian Chancellor Group (Fieldwork 1980, page 105).

The Monarch and Kicking Horse deposits lie on the east limb of a gentle anticline, the axis of which strikes about 335 degrees and plunges northward at a small angle. The deposits comprise a number of separate and discrete mineralized zones within massive to brecciated dolomite that forms a 60-metre stratigraphic interval in the lower 125 metres of the Cathedral Formation. The dolomite zone cuts sharply into underlying well-bedded limestone and dolomite and is overlain by well-bedded carbonate rock. The brecciated dolomite that hosts the orebodies consists either of a stockwork of white dolomite veins in grey dolomite or of light grey dolomite fragments in dark grey dolomite. Dolomite alteration zones immediately underlying the orebodies have original bedding preserved. The dolomite zones and orebodies trend northerly, parallel to both late normal faults, and to the abrupt carbonate platform-basinal shale transition zone.

The orebodies occur as narrow elongate runs in brecciated dolomite. They die out gradually along trend into barren, unmineralized dolomite but have sharp lateral boundaries. Sulphides, consisting of amber-coloured sphalerite, galena, minor pyrite and trace chalcopyrite, are disseminated in the dolomite matrix of breccias and form irregular veinlets cutting both matrix and fragments. Coarse sphalerite and galena commonly rim dark dolomite fragments; spar dolomite is interstitial.

Dolomitization and the development of breccia and associated cavities cannot be directly related to any late fault structures. Faults cutting the deposits are not conspicuous and one of the two supposed boundary faults, the Stephen-Dennis fault, is dominantly a stratigraphic, not a structural break. The location of the Monarch-Kicking Horse deposits in dolomitized breccia adjacent to a platformal bank margin suggests rather a regional stratigraphic control of mineralization (Fieldwork 1980, page 106).

control of mineralization (Fieldwork 1980, page 106).

The West Monarch orebody was 536 metres long, 48 metres wide and 2.4 to 16.7 metres thick, averaging 5.7 metres. The orebody rises at an angle of 8 degrees in a direction of 165 degrees.

The original East Monarch orebody lies about 198 metres east of the West Monarch orebody and is parallel to it. As first mined, it consisted of two closely-spaced orebodies but later development indicated a number of orebodies occurring in an en echelon manner over an explored length of 701 metres.

The Kicking Horse orebodies appear to line up with those of the Monarch across a gap of 1158 metres between the cliff faces of Mount Stephen and Mount Field. Because of this fact and because they occur in essentially the same structural position, it is probable that they are parts of a major ore zone that has been eroded by the Kicking Horse Valley (Minister of Mines Annual Report 1949, page A208). The No. 1 Kicking Horse orebody or zone was 176 metres long in a direction of 330 degrees and is flat. In its southern part it averaged 12.1 metres wide and 4.5 metres thick. The No. 2 or Western zone was 426 metres long, trending 320 degrees for 213 metres then changing direction to 303 degrees; it is irregular in outline.

Grade is variable in all the orebodies. Lead is more localized than zinc, and the end limits of the orebodies tend to be more zinc-rich than the average. The Monarch mine orebodies contained a higher percentage of lead than the Kicking Horse mine.

Production from the East Monarch deposit began in 1888 and continued intermittently until 1925, and amounted to about 42,545 tonnes. Development work continued through 1926 and most of 1927. The mine began producing again in 1929, with only one year, 1932, in which all work was suspended. There was no production in 1931 and 1932. By the end of 1935 ore reserves had been largely depleted, and the mill was closed. Development work was done during the following four years (1936 to 1939), and milling operations were resumed in 1940. The intermittent production from 1929 to 1940 was from the West Monarch deposit and amounted to about 318,024 tonnes. In 1941, ore from the Kicking Horse deposit was trucked to the mill for the first time, since which time this mine has produced most of the tonnage for the period 1941 to 1952 (about 466,440 tonnes). Mining and milling ceased at the Monarch and Kicking Horse mines in August 1952, when the Monarch orebody was exhausted. Remaining reserves at the Kicking Horse deposit are 27,213 tonnes grading 8 per cent zinc (Minister of Mines Annual Report 1952, page A205). Development and exploration work ceased at the Kicking Horse mine in November of the same year. Metal prices were not favourable for continued

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

exploration, and these properties remained idle during 1953. In September, 1954, they were abandoned, and all salvable material was removed from underground. In 1957, the mill equipment was removed and shipped to the property of Cowichan Copper Co. Ltd. on Cowichan Lake. While removing the equipment, lead and zinc concentrates were recovered and shipped to the Trail smelter.

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     1933-A199,A200; 1934-A25,A29; *1935-A27,A30,E1,E13-E19,G53; 1936-
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     A205-A208; 1950-A157,A158; 1951-A40,A191,A192; 1952-A43,A204,A205; 1953-45; 1954-A151,A152; 1957-65
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     Monarch Mine, 1925; Assay Plan of the Monarch Mine, 1926; Plan of Monarch Mine, 1926; Starr, C.C. (1926): Report of Examination of
     the Monarch and Kicking Horse Mines, 21 p.; Starr, C.C. (1928):
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EMR MP CORPFILE (Couverapee Mining Company, Limited; Base Metals
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 020 NATIONAL MINERAL INVENTORY: 082N8 Zn1

NAME(S): KICKING HORSE, KICKING HORSE MINE, BLACK PRINCE, MONARCH-KICKING HORSE

STATUS: Past Producer Underground MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N08W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 25 26 N LONGITUDE: 116 26 50 W NORTHING: 5697110 EASTING: 538434

ELEVATION: 1493 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the south-facing cliffs of Mount Field in Yoho National Park, Just north of Highway 1, the Kicking Horse River and the Canadian Pacific Railway, 4 kilometres northeast of Field (see Monarch, 082N 019 - Proposed drilling and mine plan map, 1951).

COMMODITIES: Zinc Lead Silver Cadmium Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Gal COMMENTS: Trace chalcopyrite. Chalcopyrite Galena

ASSOCIATED: Pvrite

ALTERATION: Dolomite ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive Breccia Disseminated

CLASSIFICATION: Sedimentary TYPE: E12 Miss Replacement Hydrothermal

Mississippi Valley-type Pb-Zn

SHAPE: Tabular DIMENSION: 176 x 12 Metres STRIKE/DIP: TREND/PLUNGE: 330/

COMMENTS: The No. 1 orebody or zone.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Cambrian Undefined Group Cathedral

LITHOLOGY: Dolomite

Brecciated Dolomite Limestone Carbonate Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: QUANTITY: YEAR: 1952 Measured 27213 Tonnes

> **COMMODITY GRADE** Zinc 8.0000 Per cent

COMMENTS: Remaining reserves at time of closure.

REFERENCE: Minister of Mines Annual Report 1952, page A205.

CAPSULE GEOLOGY

The Monarch (082N 019) and Kicking Horse deposits occur in the steep cliffs on either side of the Kicking Horse River, about 4 kilometres northeast of Field, in Yoho National Park. The Kicking Horse deposit is at the 1524-metre elevation on Mount Field on the north side of the river, and the East and West Monarch deposits are at the 1560 and 1621-metre elevations respectively, on Mount Stephen, on the south side of the river. The Monarch deposit was located in on the south side of the fiver. The monatch deposit was rocated in 1884 during construction of the Canadian Pacific Railway. The East Monarch ore zone was the first to be recognized, and the West Monarch zone, known originally as the Couverapee, was not discovered until about 1916. The original Couverapee property was owned by W.D. Adkins who shipped 20 tonnes in 1916. The workings consisted of one large pillared stope with some crosscutting and drifting. In 1919 there was litigation regarding boundaries between the owners of the Couverapee and (East) Monarch properties. A survey proved that the

> MINFILE NUMBER: 082N 020

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Couverapee was within the Monarch holdings and the two properties were amalgamated under the management of Mr. Adkins. The Couverapee and the original Monarch mine became known as the West and East Monarch, respectively. The Kicking Horse showings, known originally as the Black Prince, were mentioned briefly in old reports but received little attention until 1925.

The region is within the fold-and-thrust belt of the Cordillera. Although the structural style varies within the area, northeast-directed thrust faults and associated folds and overturned folds with northwest axes dominate. The Monarch-Kicking Horse deposits occur in a thick succession of massive to thin-bedded limestone and dolomite of the Middle Cambrian Cathedral Formation. Characteristically, the deposits are in close proximity to carbonate bank margins. The Monarch-Kicking Horse deposits are in platformal carbonates just east of a transition to basinal shale and limestone of the Middle Cambrian Chancellor Group (Fieldwork 1980, page 105).

The Monarch and Kicking Horse deposits lie on the east limb of a gentle anticline, the axis of which strikes about 335 degrees and plunges northward at a small angle. The deposits comprise a number of separate and discrete mineralized zones within massive to brecciated dolomite that forms a 60-metre stratigraphic interval in the lower 125 metres of the Cathedral Formation. The dolomite zone cuts sharply into underlying well-bedded limestone and dolomite and is overlain by well-bedded carbonate rock. The brecciated dolomite that hosts the orebodies consists either of a stockwork of white dolomite veins in grey dolomite or of light grey dolomite fragments in dark grey dolomite. Dolomite alteration zones immediately underlying the orebodies have original bedding preserved. The dolomite zones and orebodies trend northerly, parallel to both late normal faults, and to the abrupt carbonate platform-basinal shale transition zone.

The orebodies occur as narrow elongate runs in brecciated dolomite. They die out gradually along trend into barren, unmineralized dolomite but have sharp lateral boundaries. Sulphides, consisting of amber-coloured sphalerite, galena, minor pyrite and trace chalcopyrite, are disseminated in the dolomite matrix of breccias and form irregular veinlets cutting both matrix and fragments. Coarse sphalerite and galena commonly rim dark dolomite fragments; spar dolomite is interstitial.

Dolomitization and the development of breccia and associated cavities cannot be directly related to any late fault structures. Faults cutting the deposits are not conspicuous and one of the two supposed boundary faults, the Stephen-Dennis fault, is dominantly a stratigraphic, not a structural break. The location of the Monarch-Kicking Horse deposits in dolomitized breccia adjacent to a platformal bank margin suggests rather a regional stratigraphic control of mineralization (Fieldwork 1980, page 106).

The West Monarch orebody was 536 metres long, 48 metres wide and 2.4 to 16.7 metres thick, averaging 5.7 metres. The orebody rises at an angle of 8 degrees in a direction of 165 degrees.

The original East Monarch orebody lies about 198 metres east of the West Monarch orebody and is parallel to it. As first mined, it consisted of two closely-spaced orebodies but later development indicated a number of orebodies occurring in an en echelon manner over an explored length of 701 metres.

The Kicking Horse orebodies appear to line up with those of the Monarch across a gap of 1158 metres between the cliff faces of Mount Stephen and Mount Field. Because of this fact and because they occur in essentially the same structural position, it is probable that they are parts of a major ore zone that has been eroded by the Kicking Horse Valley (Minister of Mines Annual Report 1949, page A208). The No. 1 Kicking Horse orebody or zone was 176 metres long in a direction of 330 degrees and is flat. In its southern part it averaged 12.1 metres wide and 4.5 metres thick. The No. 2 or Western zone was 426 metres long, trending 320 degrees for 213 metres then changing direction to 303 degrees; it is irregular in outline.

Grade is variable in all the orebodies. Lead is more localized than zinc, and the end limits of the orebodies tend to be more zinc-rich than the average. The Monarch mine orebodies contained a higher percentage of lead than the Kicking Horse mine.

Production from the East Monarch deposit began in 1888 and continued intermittently until 1925, and amounted to about 42,545 tonnes. Development work continued through 1926 and most of 1927. The mine began producing again in 1929, with only one year, 1932, in which all work was suspended. There was no production in 1931 and 1932. By the end of 1935 ore reserves had been largely depleted, and the mill was closed. Development work was done during the following four years (1936 to 1939), and milling operations were resumed in 1940. The intermittent production from 1929 to 1940 was from the

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

West Monarch deposit and amounted to about 318,024 tonnes. In 1941, ore from the Kicking Horse deposit was trucked to the mill for the first time, since which time this mine has produced most of the tonnage for the period 1941 to 1952 (about 466,440 tonnes). Note that the production statistics for the Kicking Horse mine are included with that of the Monarch mine (082N 019). Mining and milling ceased at the Monarch and Kicking Horse mines in August 1952, when the Monarch orebody was exhausted. Remaining reserves at the Kicking Horse deposit are 27,213 tonnes grading 8 per cent zinc (Minister of Mines Annual Report 1952, page A205). Development and exploration work ceased at the Kicking Horse mine in November of the same year. Metal prices were not favourable for continued exploration, and these properties remained idle during 1953. In September, 1954, they were abandoned, and all salvable material was removed from underground. In 1957, the mill equipment was removed and shipped to the property of Cowichan Copper Co. Ltd. on Cowichan Lake. While removing the equipment, lead and zinc concentrates were recovered and shipped to the Trail smelter.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 021

NATIONAL MINERAL INVENTORY: 082N1 Zn1

NAME(S): **HAWK CREEK**, ALBION

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N01E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1039

LATITUDE: 51 06 12 N

NORTHING: 5661756 EASTING: 567368

LONGITUDE: 116 02 16 W ELEVATION: 1706 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The showings are on the west side of Hawk Creek in Kootenay National Park, on the southern slopes of Isabelle Peak, about 2.5 kilometres east of Highway 93 and 46 kilometres south-southeast of Field

(Minister of Mines Annual Report 1953, page A155).

COMMODITIES: Zinc. Silver I ead Gold

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Calcite Galena **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Podiform Disseminated Shear Vein

CLASSIFICATION: Replacement Hydrothermal **Epigenetic** 

TYPE: E12 Mis SHAPE: Cylindrical DIMENSION: 75 x 1 Mississippi Valley-type Pb-Zn

TREND/PLUNGE: x 15 Metres STRIKE/DIP:

COMMENTS: A mineralized irregular-shaped cylindrical zone.

DOMINANT HOSTROCK: Sedimentary

STRATIGNALLIS...
Cambrian-Ordovician STRATIGRAPHIC AGE FORMATION IGNEOUS/METAMORPHIC/OTHER Undefined Formation Goodsir

LITHOLOGY: Argillaceous Limestone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: YFAR: 1942 Indicated

> QUANTITY: 26759 Tonnes COMMODITY **GRADE**

12.5000 Per cent 7inc

COMMENTS: One interpretation of drill results. REFERENCE: Minister of Mines Annual Report 1953, page A156.

CAPSULE GEOLOGY

The Hawk Creek deposit is in Kootenay National Park on the west side of Hawk Creek, about 2.5 kilometres east of Highway 93 and approximately 46 kilometres south-southeast of Field. Access is via a road that leaves Highway 93 about 50 metres north of the Hawk Creek road bridge. The showings are on a gently sloping timbered hillside that forms the southern flank of Isabelle Peak.

The area in the vicinity of the showings are underlain by

strongly cleaved, gently dipping or horizontal thin-bedded argillaceous limestones and argillites of the Cambrian to Ordovician Goodsir Group. A prominent, steep (dips 45 to 70 degrees southwest), northwest-striking shear zone appears to control the distribution of the vein and replacement mineralization. The shear zone and associated mineralization cuts sharply across bedding in the sedimentary rocks.

Mineralization comprises an irregular-shaped cylindrical zone roughly 15 metres in width and 75 metres in length. Amber-coloured sphalerite, the dominant sulphide, forms massive fine-grained pods, disseminations and stringers. Galena, which is less abundant, occurs as fine-grained disseminations and stringers associated with both sphalerite, calcite and minor pyrite.

In 1930, a 1.8-metre channel sample in the upper opencut assayed

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

30.6 per cent zinc, 4.3 per cent lead, 54.8 grams per tonne silver and 1.7 grams per tonne gold (Minister of Mines Annual Report 1930, page A239).

The showings were discovered in November 1929 by Fred W. Jowett while constructing a trail under the employ of the Federal Government. The Albion claims were staked and recorded at Windermere where the mining recorder was not aware that the showings were in Kootenay National Park and, by terms of the act, not open to staking. Some trenching was done by an eastern Canadian mining company late in 1930, before snowfall. In 1932 the National Parks Board refused the stakers permission to do further assessment work. In the spring of 1942, due to the wartime shortage of zinc, Base Metals Mining Corporation Limited, which was operating the Monarch mine (082N 019) near Field, made representations to the Federal Metals Controller with regard to the occurrence; the company was retained by the Federal Government to carry out exploration work to determine the extent of the orebody. Work by the company during 1942 included trenching, driving a short adit and diamond drilling in 17 holes totalling about 503 metres. No further work was done. One interpretation of the 1942 drill results indicates a total of 26,759 tonnes averaging 12.5 per cent zinc (Minister of Mines Annual Report 1953, page A156).

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EMPR AR \*1930-A237-A239; \*1953-A155,A156

EMPR FIELDWORK \*1980, p. 108

EMPR PF (Starr, C.C. (1930): Report of Examination of the Albion Group, 3 p.; Sketch of Albion Group, (1"=20'), 1930; Christie, K.J. (1951): Investigation of the Mineral Claims on Hawk Creek in Kootenay Park and Mining Operations at Base Metals Mining Corporation in Yoho Park; \*Rice, H.M.A. (1942): Final Report on the Hawk Creek Showings; \*Brown, W.L. (1942): Report on the Hawk Creek Property; Richmond, A.M. (1942): Report on the Albion Group; \*Galloway, J.D. (1942): Report on Hawk Creek Mineral Deposit; Field notes, letter; Numerous plans, sketch maps and sections of drillholes and trenches (1942, 1951))

EMR MIN BULL MR 223, B.C. 82

EMR MP CORPFILE (Base Metals Mining Corp. Ltd.)

GSC MAP 1476A

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ECON GEOL Vol.63, June, July 1969, pp. 349, 359

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/06/17 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 022

NATIONAL MINERAL INVENTORY: 082N7 Pb1

PAGE:

REPORT: RGEN0100

1041

NAME(S): QUEBEC, FRENCHMAN CREEK, QUEBEC (L.511)

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N07E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 18 44 N LONGITUDE: 116 31 04 W ELEVATION: 1448 Metres NORTHING: 5684657 EASTING: 533610

LOCATION ACCURACY: Within 500M

COMMENTS: Adits on Lot 511 on Frenchman Creek, south of the Ottertail River and 10 kilometres south-southwest of Field, in Yoho National Park

(Geological Survey of Canada Memoir 55, Map 142A).

COMMODITIES: Lead Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Azurite Malachite Pyrite

Arsenopyrite ASSOCIATED: Quartz Calcite ALTERATION: Azurite Malachite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Cambrian Chancellor Undefined Formation

LITHOLOGY: Calcareous Slate

Slate Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Quebec showings are on Frenchman Creek,  $10~{\rm kilometres}$  southwest of Field, in Yoho National Park. The occurrence is underlain by red weathering, highly cleaved calcareous slates and slates with thin limestone interbeds, of the Middle Cambrian Chancellor Group.

Quartz-calcite veinlets cut the slates and are mineralized with galena, tetrahedrite, azurite, malachite, pyrite and arsenopyrite.

The showings were staked as the Quebec claim (Lot 511) which was Crown-granted in 1902. The Pioneer Mining Company held the property in 1885, installed a 10-stamp mill and a tramway about 3.2 kilometres long with wooden rails. Approximately 18 tonnes of ore had been transported before a forest fire destroyed the tramway in June 1887. The workings included a lower adit about 61 metres long with an 18-metre shaft at the end, and an upper adit 53 metres long.

**BIBLIOGRAPHY** 

EMPR AR 1899-594; 1902-303

EMPR BULL 28, p. 53 EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 1496A GSC MEM \*55, pp. 222-224

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GSC SUM RPT 1911, p. 185 ASPG Guidebook, 4th Annual Field Conference (Aug. 1954)

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1993/06/30 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 023

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5680804 EASTING: 534914

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1042

NAME(S): **HASKINS CREEK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N08W 082N07E BC MAP:

LATITUDE: 51 16 39 N LONGITUDE: 116 29 58 W ELEVATION: 1676 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located at the headwaters of Haskins Creek, south of the Ottertail River in Yoho National Park, about 30 kilometres east of Golden

(Geological Survey of Canada Memoir 55, Map 142A).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

GROUP Chancellor STRATIGRAPHIC AGE

**FORMATION** Middle Cambrian Undefined Formation

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Continental Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Haskins Creek showing is at the headwaters of Haskins Creek in Yoho National Park, 30 kilometres east of Golden. Chalcopyrite and pyrite occurs in quartz veins hosted in highly cleaved slates of the Middle Cambrian Chancellor Group.

The showing was first worked pre-1914; the workings are filled

in (Geological Survey of Canada Memoir 55, page 223).

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 1483A; 1496A GSC MEM \*55, pp. 222-223

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ASPG Guidebook, 4th Annual Field Conference (Aug. 1954)

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 023

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 024

NATIONAL MINERAL INVENTORY:

NAME(S): SILVERSLOPE CREEK

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N08W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

1043

LATITUDE: 51 15 36 N LONGITUDE: 116 27 22 W ELEVATION: 2133 Metres

NORTHING: 5678879 EASTING: 537951

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, at the headwaters of the southeast branch of Silverslope Creek, south of the Ottertail River and Fulmen Mountain, in Yoho National

Park, 30 kilometres east of Golden (Geological Survey of Canada

Memoir 55, Map 142A).

COMMODITIES: Lead Silver 7inc Copper

**MINERALS** 

Sphalerite **Pyrite** Chalcopyrite Argentite

SIGNIFICANT: Galena ASSOCIATED: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Podiform Disseminated

Hydrothermal CLASSIFICATION: Replacement

TYPE: E12 Mississippi Valley-type Pb-Zn

DOMINANT HOSTROCK: Metasedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Middle Cambrian Chancellor Undefined Formation

LITHOLOGY: Limestone

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1914 Assav/analysis

SAMPLE TYPE: Grab GRADE

COMMODITY Silver 154.2000 Grams per tonne 0.3500 Copper Per cent 15.3300 Per cent Lead Per cent 6.8700 Zinc

COMMENTS: An average sample.

REFERENCE: Geological Survey of Canada Memoir 55, page 223.

**CAPSULE GEOLOGY** 

The Silverslope Creek occurrence is situated at the headwaters of the southeast branch of Silverslope Creek in Yoho National Park, about 30 kilometres east of Golden.

Reddish weathering slates of the Middle Cambrian Chancellor Group strike 125 degrees and dip 40 to 45 degrees south. Galena, sphalerite and pyrite with minor chalcopyrite and possibly argentite, spnalerite and pyrite with minor chalcopyrite and possibly argentite, occur as irregular lenses and in calcite stringers in a bed of partly recrystallized limestone 1.8 metres thick, that is interbedded in the slates. An average sample assayed 15.33 per cent lead, 6.87 per cent zinc, 0.35 per cent copper and 154.2 grams per tonne silver (Geological Survey of Canada Memoir 55, page 223).

A tunnel, above tree line, is about 61 metres long and was started 22 metres downslope of the mineralization in order to intersect it at greater debth, but was still a few metres from where

intersect it at greater  $\widetilde{depth}$ , but was still a few metres from where the ore would be reached (Geological Survey of Canada Memoir 55, page

223).

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 1483A

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*55, pp. 222-223 GSC OF 481 ASPG Guidebook, 4th Annual Field Conference (Aug. 1954)

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 024

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 025

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5668000

EASTING: 537293

PAGE:

REPORT: RGEN0100

1045

NAME(S): SHINING BEAUTY, SHINING BEAUTY CREEK

STATUS: Past Producer Underground

REGIONS: British Columbia NTS MAP: 082N01W BC MAP:

LATITUDE: 51 09 44 N

LONGITUDE: 116 28 00 W ELEVATION: 1981 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, just north of Shining Beauty Creek on the slopes of Clawson Peak in Yoho National Park, west of the Ice River, about 34

kilometres east-southeast of Golden (Geological Survey of Canada

Memoir 55, Map 142A).

COMMODITIES: Zinc. Silver Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Arsenopyrite Sphalerite

Bornite Calcite Zeolite

ASSOCIATED: Quartz ALTERATION: Limonite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Podiform Massive Disseminated CLASSIFICATION: Replacement Igneous-contact Hydrothermal

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 304 x 1 Metres STRIKE/DIP: 325/68W TREND/PLUNGE:

COMMENTS: Quartz lens that closely follows the strike of limestone beds.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Cambrian Undefined Group Ottertail

Paleozoic Ice River Complex

LITHOLOGY: Limestone

Nepheline Syenite

HOSTROCK COMMENTS: The Ice River Complex is Devonian or Carboniferous.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

CAPSULE GEOLOGY

Limestone of the Cambrian Ottertail Formation is intruded by nepheline syenite of the Devonian or Carboniferous Ice River Complex. The limestone separates lower calcareous shales of the Middle Cambrian Chancellor Group from a thick series of cherty slates of the Upper Cambrian-Middle Ordovician McKay Group.

The limestone beds at the Shining Beauty occurrence strike 325 degrees and dip from 68 to 72 degrees southwest. A lens-like mass of white granular quartz about 60 centimetres thick lays in a bedding plane, some 60 metres from the contact with nepheline syenite. Th quartz is veined with minute stringers of calcite which frequently contain small greenish fibrous aggregations of zeolitic material. The lens is constant in width and has sharply defined walls; it closely follows the strike of the limestone, and in vertical extent is readily traceable for about 304 metres up the almost vertical cliff to the top of the ridge (Geological Survey of Canada Memoir 55, page 230). A little pyrite, galena and minor chalcopyrite occur in the lens, but the ore is found as irregular segregations in the surrounding limestone, consisting of massive arsenopyrite-quartz pods surrounded by disseminated pyrite, sphalerite, argentiferous galena and arsenopyrite; bornite has also been reported. The surrounding rock is highly stained with limonite.

Mining operations from 1908-1911 produced an unspecified amount of silver and zinc ore. The development by the Labourers' Co-operative Gold, Silver and Copper Mining Co. Ltd. consisted of 3 almost parallel tunnels about 60 metres apart, one above the other, following the quartz lens. The upper tunnel is 114 metres long, the middle one is 137 metres long, and the lower tunnel is only a couple

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

of metres long. The amount of ore actually shipped is unknown, but the reported value was \$20 per ton in silver and zinc (Geological Survey of Canada Memoir 55, page 231).

**BIBLIOGRAPHY** 

EMPR AR 1901-1011; 1905-J144; 1906-H134; 1907-L89; 1908-J88;

1910-K93

EMPR PF (82N General File - Prospector's map, 1937) GSC BULL \*245, p. 9

GSC MAP 1477A GSC MEM \*55, pp. 229-231 GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/29 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 025

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 026

NATIONAL MINERAL INVENTORY:

NAME(S): **ZINC CREEK** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N01W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

1047

LATITUDE: 51 10 50 N

NORTHING: 5670068 EASTING: 541045

LONGITUDE: 116 24 46 W ELEVATION: 2133 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the north-facing slope of Zinc Mountain in Yoho National Park, in Zinc Creek valley, 2.2 kilometres east of Ice River and about 40 kilometres east-southeast of Golden (Geological Survey of

Canada Memoir 55, Map 142A).

COMMODITIES: Zinc

I ead

**MINERALS** 

Arsenopyrite SIGNIFICANT: Pyrite Sphalerite Calcité

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Podiform Massive

CLASSIFICATION: Replacement Igneous-contact Hydrothermal

TYPE: E12 Mississippi Valley-type Pb-Zn DIMENSION: 9 x 3 x 2 Metres STRIKE/DIP: TREND/PLUNGE:

Galena

COMMENTS: Mineralized zone.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Chancellor Middle Cambrian Undefined Formation

LITHOLOGY: Siliceous Limestone Calcareous Shale

TERRANE: Ancestral North America

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

CAPSULE GEOLOGY

The Zinc Creek showing occurs within a thick series of thin bedded, well-cleaved calcareous shales of the Middle Cambrian Chancellor Group. Interbedded with the shales are narrow bands of siliceous limestone 0.6 to 0.9 metre thick. Mineralization is developed within one of these bands.

An irregular lenticular pocket of quartz-calcite with bands of pyrite, arsenopyrite, sphalerite and galena replaces a siliceous limestone band about 3 metres thick. The mineralized zone rests conformably on calcareous shales which strike 115 degrees and dip 15 degrees south, into the slope of Zinc Mountain. The mineralized zone is about 2.4 metres in maximum thickness, and extends about 9.1 metres along the strike of the shales. It appears to pinch out about 3.6 metres down on the dip of the footwall. Other masses or lenses occur along strike in the same borizon occur along strike in the same horizon.

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937)

GSC BULL \*245, p. 9

GSC MAP 1477A

GSC MEM \*55, pp. 231-234

GSC OF 481

ASPG Guidebook, 4th Annual Field Conference (Aug. 1954)

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/29 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 027 NATIONAL MINERAL INVENTORY: 082N1 Ti1

 $\begin{array}{ll} \text{NAME(S): } & \underline{\text{MOOSE CREEK}}, \text{ BOW, DEMON,} \\ \hline & \text{COLTI} \end{array}$ 

STATUS: Developed Prospect REGIONS: British Columbia NTS MAP: 082N01W

BC MAP:

LATITUDE: 51 11 40 N LONGITUDE: 116 21 04 W **ELEVATION:** 2380 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Talus material, on the northeast slope at the head of Moose Creek Valley and the headwaters of Moose Creek, between Sharp and Helmet

mountains, 40 kilometres east-southeast of Golden (Prospectus, Moose Creek Magnetite Project, St. Paul Minerals Ltd., February 12, 1991).

Thorium COMMODITIES: Magnetite Titanium Rare Earths Niobium

**MINERALS** 

SIGNIFICANT: Sphene Magnetite Perovskite Schorlomite Ilmenite

Knopite Sodalite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Unconsolidated

CLASSIFICATION: Magmatic Pegmatite Residual Industrial Min.

Carbonatite-hosted deposits TYPE: NOT

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Ottertail Paleozoic Ice River Complex

ISOTOPIC AGE: 380 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Jacupirangite

ljolite<sup>\*</sup>

Nepheline Syenite

Urtite Limestone Quartzite Shale Talus Pegmatite Dike

HOSTROCK COMMENTS: Age date from Open File 1987-17. The Ice River Complex is Devonian or

Carboniferous.

GEOLOGICAL SETTING
TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Plutonic Rocks Ancestral North America

INVENTORY

ORE ZONE: MAIN REPORT ON: Y

> CATEGORY: YEAR: 1991 Inferred QUANTITY: 1900000 Tonnes

**GRADE** COMMODITY

Magnetite 5.5000 Per cent

COMMENTS: Magnetite contained in broken talus material. The average grade of ore is 5.5 per cent with a cutoff grade of 2.5 per cent.

REFERENCE: Prospectus, St. Paul Minerals Ltd., February 12, 1991.

REPORT ON: Y ORE ZONE: MAIN

> CATEGORY: Indicated YEAR: 1991 QUANTITY: 362000 Tonnes

COMMODITY

Magnetite 5.5000 Per cent

COMMENTS: Magnetite contained in broken talus material. The average grade of ore is 5.5 per cent with a cutoff grade of 2.5 per cent.

REFERENCE: Prospectus, St. Paul Minerals Ltd., February 12, 1991.

MINFILE NUMBER: 082N 027

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5671648 EASTING: 545341

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE: MAIN REPORT ON: Y

> YEAR: 1991 CATEGORY: Measured QUANTITY: 205000 Tonnes

COMMODITY **GRADE** 

Magnetite 5.5000 Per cent

COMMENTS: Magnetite contained in broken talus material. The average grade of ore is 5.5 per cent with a cutoff grade of 2.5 per cent.

REFERENCE: Prospectus, St. Paul Minerals Ltd., February 12, 1991.

#### **CAPSULE GEOLOGY**

THe Moose Creek deposit is located on the northeast slope at the head of Moose Creek valley.

Nepheline syenite of the Devonian or Carboniferous Ice River Complex intrudes folded and faulted limestone, quartzite and shale of the Cambrian Ottertail Formation. The intrusive rocks are mainly jacupirangite (an ultramafic plutonic rock that is part of the ijolite series and composed chiefly of titanaugite and magnetite) with a rim of ijolite-urtite. Irregular pegmatitic dikes and lenses occur in all rocks. Pegmatite minerals include calcite, biotite, pyroxene, magnetite-ilmenite and schorlomite, with minor pyrite, pyrrhotite, nepheline and accessories.

Ilmenite-magnetite mineralization, mainly as sphene and magnetite, occurs in quartzite, pegmatite and intrusive rocks. Assays range to 13.2 per cent TiO2 and 20.6 per cent iron (Assessment Report 3389). Knopite, a cerium-bearing perovskite, is present in a pegmatite dike. Sodalite occurs as veins in the intrusion. Analysis for columbium/niobium yielded 0.67 per cent Cb205 (Assessment Report 3389).

A radioactive northeast-trending shear zone, 1200 metres to the south, yielded up to 0.019 per cent uranium. Other commodities include thorium (up to 0.077 per cent ThO2 over 3 metres) and traces of rare earths, chiefly lanthanum and ytterbium (Minister of Mines Annual Report 1954, page 150).

Ilmenite-magnetite bearing gravels and sands occupy the valley along Moose Creek. A 10 by 300 metre area assayed up to 8.2 per cent TiO2 (Assessment Report 3389).

A recent bulk sampling and analysis program on a large talus slope, developed from the erosion of the ultramafic intrusion (jacupirangite), has resulted in reserves of magnetite contained in the broken talus material. It appears that the magnetite-bearing rocks (segregation zones in the intrusion) are more friable than the hostrocks, resulting in talus in which the large, coarse material, up to large boulder size, contains very little magnetite. The fine fraction (minus 4 mesh) contains substantially all of the minerals of commercial interest. Proven (measured geological) reserves are 205,000 tonnes, indicated reserves are 362,000 tonnes and inferred (resource) reserves are 1.9 million tonnes of magnetite respectively, averaging 5.5 per cent magnetite at a cutoff grade of 2.5 per cent (Prospectus, Moose Creek Magnetite Project, St. Paul Minerals Ltd., February 12, 1991).

The proposed mining method is an earth moving operation

utilizing bulldozers and front-end loaders (open pit in unconsolidated material (talus)).

### **BIBLIOGRAPHY**

```
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EMPR GEM 1971-443
EMPR MAP 22
EMPR OF 1987-17, pp. 23-30; 1990-32, p. 25; 1992-1; 1992-9
EMPR PF (82N General File - Prospector's map, 1937; Mine Development
   Review Process, Project Fact Sheet)
EMR MP CORPFILE (Albany Oil and Gas Limited)
GSC BULL 245
GSC EC GEOL 11, p. 138; 16 (2nd Ed.), p. 231; 29, pp. 72,134
GSC MAP 142A; 1477A
GSC MEM 55
GSC OF 481; 551
GSC P 87-2, pp. 33-37
GSC SUM RPT *1925 Part A, pp. 230-232
CANMET RPT 135
*Prospectus, Moose Creek Magnetite, St. Paul Minerals Ltd., February
12, 1991
Placer Dome File
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DATE CODED: 1985/07/24 DATE REVISED: 1993/06/28 CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 028 NATIONAL MINERAL INVENTORY: 082N1 Pb2

NAME(S): WATERLOO, QEM

STATUS: Prospect Underground MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N01W BC MAP:

LATITUDE: 51 10 00 N LONGITUDE: 116 22 59 W ELEVATION: 2190 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits, west of and near the headwaters of Moose Creek, on the east

slope of Zinc Mountain, about 44 kilometres east-southeast of Golden

(Assessment Report 3433).

COMMODITIES: Silver Lead Copper Gold

Gemstones Nepheline Syenite Uranium

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Galena Sphalerite

Pyrite Sodalite Arsenopyrite

ASSOCIATED: Calcite Quartz

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant Massive Disseminated Vein

CLASSIFICATION: Replacement TYPE: E14 Sedir Igneous-contact Hydrothermal Industrial Min.

Sedimentary exhalative Zn-Pb-Ag J01 Polymetallic manto Ag-Pb-Zn

N01 Carbonatite-hosted deposits SHAPE: Tabular

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Ottertail

Paleozoic Ice River Complex

ISOTOPIC AGE: 380 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Nepheline Syenite Lamprophyre Sill

HOSTROCK COMMENTS: Age dating from Open File 1987-17. The Ice River Complex is Devonian

or Carboniferous.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges Plutonic Rocks TERRANE: Ancestral North America

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Regional

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1914

SAMPLE TYPE: Grab

COMMODITY **GRADE** Silver 99.4000 Grams per tonne Gold 1.7000 Grams per tonne

Copper 1.5900 Per cent Lead 3.6900 Per cent 16.1000 Per cent

COMMENTS: A representative sample of ore from an adit dump. REFERENCE: Geological Survey of Canada Memoir 55, page 225.

CAPSULE GEOLOGY

Limestone of the Cambrian Ottertail Formation is intruded by nepheline syenite of the Devonian or Carboniferous Ice River Complex. At the Waterloo occurrence, mineralization forms an almost continuous blanket of massive sulphide up to a metre thick along the base of a lamprophyre sill in the Ottertail Formation. The principal

sulphide is pyrrhotite, in which occur nodules of pyrite, chalcopyrite and galena. Sphalerite and arsenopyrite have also been Around the edges of massive sulphides, the Ottertail Formation has been recrystallized into coarse white calcite with

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5668540 EASTING: 543135

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

interstitial quartz.

A representative sample of ore from an adit dump assayed 3.69 per cent lead, 16.10 per cent zinc, 1.59 per cent copper, 27.30 per cent iron, 99.4 grams per tonne silver and 1.7 grams per tonne gold (Geological Survey of Canada Memoir 55, page 229). A sample of massive sulphide assayed 0.06 per cent uranium (Assessment Report 3433). The original Waterloo claims were located in the early 1900s, at which time two tunnels were driven for a total of about 83 metres. Sodalite occurs as disseminations and veinlets in the nepheline syenite. Hand stripping and sampling resulted in a 0.9 tonne sodalite-bearing rock shipped out by helicopter for evaluation purposes (Geology, Exploration and Mining in British Columbia 1970, page 467). About 475 metres to the south-southeast of the trench, a new zone of sodalite has been discovered. The zone is 174 metres long, 24 metres wide and at least 53 metres in depth (Assessment Report 20207). A large area of nepheline syenite is 190 metres to the south of the trench and may hold potential for the ceramic and glass industry.

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EMPR PF (*Rpt. by A.G. Mackenzie, 1971; see Baldy, 082KNE048 -
    Prospectus, Purcell Development Co. Ltd., July 15, 1972; 82N
    General File - Prospector's map, 1937); (Addie, G.G. (1990):
    Geological Reconnaissance Report on the QEM Mineral Claims)

EMR MP CORPFILE (Purcell Development Co. Ltd.)

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GSC MAP 142A; 1477A

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GSC OF 481; 551

GSC P 87-2, pp. 33-37

GSC SUM RPT 1910, p. 141

CANMET IR 135

GCNL #193(Oct.1), 1973
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/06/28 REVISED BY: LDJ FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 029

NATIONAL MINERAL INVENTORY: 082N4 Ag7

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5660768 EASTING: 459017

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1052

NAME(S):  $\frac{\text{EDINBURGH}}{\text{SILVER}}$ , EDINBURGH (L.2867), RYCKMAN CREEK,

STATUS: Prospect MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04E

BC MAP:

LATITUDE: 51 05 49 N LONGITUDE: 117 35 07 W

ELEVATION: 1188 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Centre of Lot 2867 (survey cancelled), in Glacier National Park about 750 metres east of the Incomappleux River, 48 kilometres east-

northeast of Revelstoke (Property File - claim location maps).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Carbonate

ALTERATION: Manganite ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Shear Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

Cretaceous

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** Paleozoic Lardeau

Undefined Formation Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite Silty Argillite

Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh, Elizabeth (082N 030), Scotia (082N 031), Annie (082N 032), Agnes (082N 033), Heronback (082N 034) and Salmon (082N 035), aligned

north-south starting from the north.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartzcarbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

On the Edinburgh, Elizabeth or Scotia claims, a tunnel was driven 48 metres to intersect the vein at depth. There is about 9 tonnes of ore ready for shipping, assays for which have yielded 5442 to 9952 grams silver and 80 per cent lead (Minister of Mines Annual Report 1896, pages 539, 540). The tunnel location description is vague and may occur on either of the three claims mentioned.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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EMPR ASS RPT 13813, \*17582
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EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976; \*Claim location maps)
GSC ANN RPT 1892-93 Volume VI, p. 56R
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/16 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 029

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 030

NATIONAL MINERAL INVENTORY: 082N4 Ag7

NAME(S): ELIZABETH (L.2785), RYCKMAN CREEK, SILVER

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Revelstoke

NTS MAP: 082N04E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1054

LATITUDE: 51 05 33 N LONGITUDE: 117 34 59 W ELEVATION: 1173 Metres

NORTHING: 5660273 EASTING: 459169

ELEVATION: 1173 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 2785, in Glacier National Park about 750 metres east of

the Incomappleux River, 48 kilometres east-northeast of Revelstoke

Silver

(Assessment Report 17582).

COMMODITIES: Lead

7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Carbonate ALTERATION: Manganite

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Shear
CLASSIFICATION: Epigenetic Hydrothermal
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Paleozoic Lardeau Cretaceous

UP FORMATION
eau Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite

Silty Argillite Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay METAMORPHIC TYPE: Regional PHYSIOGRAPHIC AREA: Selkirk Mountains

Plutonic Rocks

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth, Scotia (082N 031), Annie (082N 032), Agnes (082N 033), Heronback (082N 034) and Salmon (082N 035), aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartz-carbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

On the Edinburgh, Elizabeth or Scotia claims, a tunnel was driven 48 metres to intersect the vein at depth. There is about 9 tonnes of ore ready for shipping, assays for which have yielded 5442 to 9952 grams silver and 80 per cent lead (Minister of Mines Annual Report 1896, pages 539, 540). The tunnel location description is vague and may occur on either of the three claims mentioned.

BIBLIOGRAPHY

EMPR AR 1893-1050,1084; \*1896-539,540; 1898-1189; 1899-600,677;

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC ANN RPT 1890-91 Volume V, pp. 67A,70A; 1892-93 Volume VI, p. 57R; 1894, p. 167S
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 031

NATIONAL MINERAL INVENTORY: 082N4 Ag7

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5659717 EASTING: 459203

REPORT: RGEN0100

1056

NAME(S):  $\frac{\text{SCOTIA}}{\text{SILVER}}$ , SCOTIA (L.2784), RYCKMAN CREEK,

STATUS: Prospect MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04E

BC MAP:

LATITUDE: 51 05 15 N LONGITUDE: 117 34 57 W

ELEVATION: 1143 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Centre of claim (Lot 2784, survey cancelled), in Glacier National

Park about 750 metres east of the Incomappleux River, 48 kilometres east-northeast of Revelstoke (see Edinburgh, 082N 029 - Claim

location maps).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Carbonate

ALTERATION: Manganite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Shear Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER ardeau Undefined Formation

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite

Silty Argillite Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

### **CAPSULE GEOLOGY**

A number of showings are aligned north-south for 3 kilometres starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth (082N 030), Scotia, Annie (082N 032), Agnes (082N 033), Heronback (082N 034) and Salmon (082N 035), aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartzcarbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

On the Edinburgh, Elizabeth or Scotia claims, a tunnel was driven 48 metres to intersect the vein at depth. There is about 9 tonnes of ore ready for shipping, assays for which have yielded 5442 to 9952 grams silver and 80 per cent lead (Minister of Mines Annual Report 1896, pages 539, 540). The tunnel location description is vague and may occur on either of the three claims mentioned.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR AR \*1896-539,540; 1898-1193; 1899-677

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EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976; see Edinburgh, 082N 029 - Claim location maps)

GSC ANN RPT 1892-93 Volume VI, p. 57R

GSC MAP 4-1961; 43-1962

GSC OF 481

GSC P 62-32

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MINFILE NUMBER: 082N 031

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 032

NATIONAL MINERAL INVENTORY: 082N4 Ag7

MINING DIVISION: Revelstoke

NORTHING: 5659315 EASTING: 459258

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1058

NAME(S): **ANNIE**, RYCKMAN CREEK, SILVER, CELTIC QUEEN, SILVER RIDGE

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N04E

BC MAP:

LATITUDE: 51 05 02 N LONGITUDE: 117 34 54 W

ELEVATION: 1158 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, close to or straddling the boundary of Glacier National Park,

about 750 metres east of the Incomappleux River, 48 kilometres east-northeast of Revelstoke (see Edinburgh, 082N 029 - Claim location maps).

COMMODITIES: Lead

Silver

Zinc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Carbonate

ALTERATION: Manganite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Shear Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

Cretaceous

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic

ardeau

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite Silty Argillite

Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

Plutonic Rocks

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE:

INVENTORY

ORE ZONE: DUMP

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

YFAR: 1896

GRADE COMMODITY

Silver Lead

2742.0000

Grams per tonne 72.0000 Per cent

COMMENTS: A dump of shipping ore.

REFERENCE: Minister of Mines Annual Report 1896, page 540.

CAPSULE GEOLOGY

A number of showings are aligned north-south for 3 kilometres, A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth (082N 030), Scotia (082N 031), Annie, Agnes (082N 033), Heronback (082N 034) and Salmon (082N 035), aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6

RUN DATE: 26-Jun-2003 MINFILE MAST

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartz-carbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

At the Annie occurrence, an adit has been driven 45 metres along the vein and a dump of shipping ore assayed 2742 grams per tonne silver and 72 per cent lead (Minister of Mines Annual Report 1896, page 540).

#### **BIBLIOGRAPHY**

EMPR AR 1893-1050,1084; \*1896-540; 1897-569; 1899-677
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GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/09/17 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 032

PAGE:

REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 033

NATIONAL MINERAL INVENTORY: 082N4 Ag7

NAME(S): AGNES, RYCKMAN CREEK, SILVER

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N04E BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

LATITUDE: 51 04 44 N LONGITUDE: 117 43 27 W ELEVATION: 1158 Metres

NORTHING: 5658847 EASTING: 449272

PAGE:

REPORT: RGEN0100

1060

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, 500 metres south of the boundary of Glacier National Park, about 750 metres east of the Incomappleux River, 48 kilometres east-northeast of Revelstoke (Assessment Report 17582).

7inc COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz ALTERATION: Manganite Carbonate

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Shear CLASSIFICATION: Epigenetic Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau Undefined Formation

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite

Silty Argillite Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Regional Plutonic Rocks **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 363.3000 Grams per tonne Per cent Lead 31.3000

Zinc
COMMENTS: Sample of massive galena. REFERENCE: Assessment Report 17582.

**CAPSULE GEOLOGY** 

A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth (082N 030), Scotia (082N 031), Annie (082N 032), Agnes, Heronback (082N 034) and Salmon (082N 035), aligned north-south starting from the north

13.1000

Per cent

aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

zone along with seams of manganite. Mineralization in the quartz-carbonate and quartz consists of seams and veins of argentiferous  ${\bf r}$ galena and some sphalerite.

At the Agnes occurrence, an adit has been driven for 24 metres along the vein. In 1987, a sample of massive galena in a surface showing yielded 31.3 per cent lead, 13.1 per cent zinc and 363.3

grams per tonne silver (Assessment Report 17582).

### **BIBLIOGRAPHY**

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EMPER PF (02N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976; see Edinburgh, 082N 029 - Claim location maps)
GSC MAP 4-1961; 43-1962
GSC OF 481
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FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 034

NATIONAL MINERAL INVENTORY: 082N4 Ag7

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5658357 EASTING: 459193

REPORT: RGEN0100

1062

NAME(S): **HERONBACK**, HERRINGBACK, RYKMAN CREEK, SILVER, SILVER RIDGE

STATUS: Prospect Underground MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04E

BC MAP:

LATITUDE: 51 04 31 N LONGITUDE: 117 34 57 W ELEVATION: 1097 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of claim, 1 kilometre south of the boundary of Glacier

National Park, about 750 metres east of the Incomappleux River, 48 kilometres east-northeast of Revelstoke (Assessment Report 17582).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Carbonate

ALTERATION: Manganite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Cretaceous

CHARACTER: Vein CLASSIFICATION: Epigenetic Shear Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Formation Lardeau Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite Silty Argillite

Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth (082N 030), Scotia (082N 031), Annie (082N 032), Agnes (082N 033), Heronback and Salmon (082N 035), aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded black morth-south starting from the north.

weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in

considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartzcarbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

At the Heronback occurrence, a good surface showing of mineralization analysed 2742 grams per tonne silver and 72 per cent lead (Minister of Mines Annual Report 1896, page 540). A tunnel was driven for 12 metres.

**BIBLIOGRAPHY** 

EMPR AR 1896-540; 1899-677 EMPR ASS RPT 13813, \*17582

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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Claim location maps)
GSC MAP 4-1961; 43-1962
GSC OF 481
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MINFILE NUMBER: 082N 034

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 035

NATIONAL MINERAL INVENTORY: 082N4 Ag7

NAME(S): **SALMON**, KING SOLOMON, SOLOMON, RYCKMAN CREEK, SILVER, SILVER RIDGE

STATUS: Prospect Underground

MINING DIVISION: Revelstoke

REGIONS: British Columbia NTS MAP: 082N04E

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

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BC MAP:

UDE: 51 04 15 N UDF: 117 34 55 W NORTHING: 5657863 EASTING: 459228

LATITUDE: 51 04 15 N LONGITUDE: 117 34 55 W ELEVATION: 1097 Metres OCATION ACCURACY: Within 500M

LOCATION ACCURACY: Within 500M
COMMENTS: Centre of claim, 1.5 kilometres south of the boundary of Glacier
National Park, about 750 metres east of the Incomappleux River, 48

kilometres east-northeast of Revelstoke (Assessment Report 17582).

COMMODITIES: Lead Silver Zinc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite ASSOCIATED: Quartz Carbonate

ALTERATION: Manganite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear
CLASSIFICATION: Epigenetic Hydrothermal
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Paleozoic Lardeau Undefined Formation Unnamed/Unknown Informal

LITHOLOGY: Meta Argillite Silty Argillite

Biotite Granite

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay Plutonic Rocks

TERRANE: Kootenay Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

A number of showings are aligned north-south for 3 kilometres, starting from just inside Glacier National Park (Edinburgh, 082N 029; Elizabeth, 082N 030; Scotia, 082N 031) parallel to the Incomappleux River, about 750 metres east of the river, approximately 48 kilometres east of Revelstoke. These showings were previously covered by claims staked in the early 1890s and comprise the Edinburgh (082N 029), Elizabeth (082N 030), Scotia (082N 031), Annie (082N 032), Agnes (082N 033), Heronback (082N 034) and Salmon, aligned north-south starting from the north.

The area is underlain by a steeply dipping package of rusty worthering thinly bedded black metamorphosod argillite and gilty.

The area is underlain by a steeply dipping package of rusty weathering, thinly bedded, black, metamorphosed argillite and silty argillite of the Lower Cambrian and younger Lardeau Group, intruded by an Early and/or mid-Cretaceous biotite granite intrusion. The argillites have been extensively hydrothermally altered resulting in considerable deposition of manganese.

Quartz and quartz-carbonate zones from 3 to 4 metres wide occur in a north striking, vertical shear zone in argillite. Up to 6 metres of manganese alteration occurs on either side of the shear zone along with seams of manganite. Mineralization in the quartz-carbonate and quartz consists of seams and veins of argentiferous galena and some sphalerite.

At the Salmon occurrence, a good surface showing of mineralization analysed 2742 grams per tonne silver and 72 per cent lead. About 91 metres of tunnelling was performed (Minister of Mines Annual Report 1896, page 540).

Riverdance Resources Corp. and Achieva Development Corp. optioned the Silver Ridge property in 1998. Sampling in 1997 assayed up to 104 grams per tonne silver, 12.32 per cent lead and 4.67 per cent zinc over 2 metres (GCNL #89(May8), #115(June 16), 1998).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1896-540; 1899-677; 1917-F153; 1929-C334
EMPR ASS RPT 13813, \*17582
EMPR PF (82N General File - Canadian Superior Exploration
 geochemistry maps, 82N/4E,4W, 1976; see Edinburgh, 082N 029 Claim location maps)
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32
GCNL #89(May 8) #115(June 16) 1999

GCNL #89(May 8), #115(June 16), 1998

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/17 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 035

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 036

NATIONAL MINERAL INVENTORY:

NAME(S): ICE, CASS

STATUS: Prospect REGIONS: British Columbia

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

TREND/PLUNGE:

PAGE:

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NTS MAP: 082N04E BC MAP:

NORTHING: 5653934 EASTING: 449380

LATITUDE: 51 02 05 N LONGITUDE: 117 43 19 W ELEVATION: 2339 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the main showing situated near the headwaters of Albert Creek, between Justice Glacier and Primrose Icefield, about 36

kilometres east of Revelstoke (Assessment Report 3725).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite Wolframite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Pyrite Muscovite Pyrrhotite

**DEPOSIT** 

CHARACTER: Stratabound
CLASSIFICATION: Hydrothermal
TYPE: K05 W ska Vein Disseminated

Epigenetic

W skarn

DIMENSION: 426 x 12 Metres STRIKE/DIP: COMMENTS: Mineralized zone in quartzite; widths range from 4.5 to 12.1 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **GROUP** Paleozoic Lardeau Undefined Formation

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Quartzite

Quartz Biotite Schist Quartz Muscovite Schist

Biotite Schist Limestone Siliceous Marble Biotite Quartz Diorite Granodiorite Quartz Diorite **Biotite Granodiorite** 

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1985 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent 0.2000

Tungsten COMMENTS: Average of seven rock grab samples; grade given for WO3. REFERENCE: Assessment Report 14749.

**CAPSULE GEOLOGY** 

The main showing is situated near the headwaters of Albert Creek, between Justice Glacier and Primrose Icefield, about 36 kilometres east of Revelstoke.

The Ice occurrence area is underlain by a highly siliceous and complexly interlayered sequence of Lower Cambrian and younger Lardeau Group metasediments consisting of quartzites, quartz biotite schists, quartz muscovite schists, biotite schists and minor thin lenses of impure siliceous marble. Early and/or mid-Cretaceous intrusive stocks are poorly exposed on the eastern and western extremities of the occurrence area. The western stock has an outer rim phase of coarse grained, felsic biotite quartz diorite but is dominantly composed of granodiorite. The eastern intrusion is a very coarse grained, felsic quartz diorite or biotite granodiorite.

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Narrow limestone bands close to the western intrusive contact are locally converted to coarse grained epidote-garnet skarns with minor diopside. Weak hornfelsing is present close to both intrusive contacts and many irregular granitic dikes and sills are present within the metasedimentary sequence.

The metasediments have undergone intense deformation and show evidence of at least two periods of folding. The first, most intense period of folding produced the pronounced major north-south foliation evident throughout the property.

Mineralization occurs in the form of low-grade scheelite and minor wolframite on fracture planes primarily hosted in quartzite. The scheelite occurs as coarse platy masses up to 1.2 centimetres in diameter and is extremely friable and is relatively abundant on fractures striking north and dipping approximately 30 degrees west. Scheelite-bearing fractures, on average, are approximately 0.3 to 0.6 metres apart. Traces are disseminated through the hostrock which is a pale grey to yellowish coloured quartzite with minor biotite, interlayered with muscovite quartzites. Night lamping has outlined a scheelite-bearing zone in quartzite that is approximately 4.5 to 12.1 metres wide extending 426 metres in a north-south direction. Seven rock grab samples assayed from 0.03 to 0.64 per cent WO3 and averaged 0.2 per cent WO3 (Assessment Report 14749).

A few quartz-pyrite-muscovite veins mineralized with abundant, finely disseminated scheelite occur to the south of the main mineralized zone. The veins are 2.5 to 5 centimetres wide, strike east and are almost vertical. Several other small scheelite showings with minor disseminated sulphides, including pyrrhotite, are evident.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*3725, \*14749

EMPR FIELDWORK 2000, pp. 231-252

EMPR GEM 1971-444, 1972-95

EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)

GSC MAP 4-1961; 43-1962

GSC OF 481

GSC P 62-32

GCNL #168(Sept.1), 1993

DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1993/09/21 REVISED BY: GO

MINFILE NUMBER: 082N 036

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FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 037

NATIONAL MINERAL INVENTORY:

NAME(S): **EX 90** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

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LATITUDE: 51 03 38 N

NORTHING: 5656838 EASTING: 446313

LONGITUDE: 117 45 58 W ELEVATION: 2347 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized outcrop, 2.5 kilometres south of Albert Creek, about 36 kilometres east of Revelstoke (Assessment Report 3940).

COMMODITIES: Tungsten Molvbdenum

**MINERALS** 

SIGNIFICANT: Scheelite

ASSOCIATED: Garnet **Epidote** Diopside Quartz Calcite Actinolite Vesuvianite Molybdenite COMMENTS: Very minor molybdenite in aplite dikes and pegmatitic rock about 1000 metres north of the occurrence. ALTERATION: Garnet **Epidote** Calcite Diopside Quartz

Actinolite Vesuvianite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K05

105 W skarn Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Proterozoic-Paleoz. Hamill Undefined Formation Paleozoic **Undefined Formation** Lardeau

Unknown Unnamed/Unknown Informal

LITHOLOGY: Limestone

Quartzite Schist Granitic Dike Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains Plutonic Rocks

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The rocks of the area consist of a series of Hadrynian to Lower Cambrian and younger schists and gneisses which have been intruded by a variety of plutonic rocks (age unknown). The schists and gneisses have been folded into a large anticline which plunges moderately to the northeast. Albert Creek follows approximately the axial trace of this anticline so that equivalent rocks are found on both sides of

Albert Canyon.

The metamorphosed rocks belong to the Lower Cambrian and younger Lardeau Group and Hadrynian to Lower Cambrian Hamill Group. The younger Lardeau Group consists of a succession of phyllites and gneisses with minor limestone bands. The underlying Hamill Group rocks consist of quartzites, quartz mica schists and several limestone bands. Underlying the Hamill Group is hornblende-biotitequartz-plagioclase gneiss which may represent basement rock thrust up into the overlying metasediments.

Three separate intrusions occur and comprise hornblende biotite diorite, biotite hornblende granodiorite and biotite granite.

At the EX 90 occurrence, very minor amounts of very fine grained disseminated scheelite occurs in skarn which has developed near the contact where a granitic dike cuts beds of limestone, quartzite and Skarn minerals consist of garnet and diopside with minor amounts of epidote, quartz, calcite, actinolite and vesuvianite. About 1000 metres north, very minor molybdenite is evident in aplite dikes and pegmatitic rock.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3940 EMPR FIELDWORK 2000, pp. 231-252

EMPR GEM 1972-95

EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)
GSC MAP 4-1961; 43-1962
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GSC P 62-32

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CODED BY: GSB REVISED BY: GO

FIELD CHECK: N

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REPORT: RGEN0100

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 038

NATIONAL MINERAL INVENTORY:

NAME(S): AC

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

1070

LATITUDE: 51 05 56 N

NORTHING: 5661142 **EASTING: 442564** 

UTM ZONE: 11 (NAD 83)

LONGITUDE: 117 49 13 W ELEVATION: 1112 Metres

LOCATION ACCURACY: Within 500M

MINERALIZATION AGE: Unknown

COMMENTS: Mineralized outcrop, 250 metres north of Albert Creek, about 32 kilometres east of Revelstoke (Assessment Report 3940).

COMMODITIES: Tungsten 7inc

**MINERALS** 

SIGNIFICANT: Scheelite Sphalerite ASSOCIATED: Quartz Pyrrhotite

Tourmaline Pyrite

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic TYPE: K05 W Hydrothermal

105 W skarn Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Proterozoic-Paleoz. Hamill Undefined Formation

LITHOLOGY: Quartz Mica Schist

Calcareous Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

### **CAPSULE GEOLOGY**

The rocks of the area consist of a series of Hadrynian to Lower Cambrian and younger schists and gneisses which have been intruded by a variety of plutonic rocks (age unknown). The schists and gneisses have been folded into a large anticline which plunges moderately to the northeast. Albert Creek follows approximately the axial trace of this anticline so that equivalent rocks are found on both side of Albert Canyon.

The metamorphosed rocks belong to the Lower Cambrian and younger Lardeau Group and Hadrynian to Lower Cambrian Hamill Group. The younger Lardeau Group consists of a succession of phyllites and gneisses with minor limestone bands. The underlying Hamill Group rocks consist of quartzites, quartz mica schists and several limestone bands. Underlying the Hamill Group is hornblende-biotite-quartz-plagioclase gneiss which may represent basement rock thrust up into the overlying metasediments.

Three separate intrusions occur and comprise hornblende biotite

diorite, biotite hornblende granodiorite and biotite granite.

Small lenses of skarn are developed in some limestone bands and consist of garnet, diopside and lesser amounts of epidote, quartz, calcite, actinolite and vesuvianite.

At the AC occurrence, scheelite-bearing quartz veins are found cutting through quartz mica schists and calcareous schists of the Hamill Group. The scheelite occurs as discrete grains or aggregations up to 2 centimetres in diameter at the edge of the vein. The veins also contain sphalerite, minor pyrrhotite, pyrite and tourmaline.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*3940 EMPR GEM 1972-95

EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 62-32

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 039

NATIONAL MINERAL INVENTORY:

NAME(S): **EX 26** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1072

NORTHING: 5658373 EASTING: 441521

LATITUDE: 51 04 26 N LONGITUDE: 117 50 05 W ELEVATION: 2088 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized outcrop, 3 kilometres south of Albert Creek, about 31 kilometres east of Revelstoke (Assessment Report 3940).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Epigenetic TYPE: I12 W Hydrothermal W veins

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Proterozoic-Paleoz. Undefined Formation Hamill Paleozoic Lardeau Undefined Formation

Unnamed/Unknown Informal Unknown

LITHOLOGY: Schist Limestone

Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The rocks of the area consist of a series of Hadrynian to Lower Cambrian and younger schists and gneisses which have been intruded by a variety of plutonic rocks (age unknown). The schists and gneisses have been folded into a large anticline which plunges moderately to the northeast. Albert Creek follows approximately the axial trace of this anticline so that equivalent rocks are found on both side of Albert Canyon.

The metamorphosed rocks belong to the Lower Cambrian and younger Lardeau Group and Hadrynian to Lower Cambrian Hamill Group. The younger Lardeau Group consists of a succession of phyllites and gneisses with minor limestone bands. The underlying Hamill Group rocks consist of quartzites, quartz mica schists and several limestone bands. Underlying the Hamill Group is hornblende-biotitequartz-plagioclase gneiss which may represent basement rock thrust up into the overlying metasediments.

Three separate intrusions occur and comprise hornblende biotite diorite, biotite hornblende granodiorite and biotite granite.

Small lenses of skarn are developed in some limestone bands and consist of garnet, diopside with lesser amounts of epidote, quartz, calcite, actinolite and vesuvianite.

At the EX 26 occurrence, a discontinuous and shattered 3-metre wide quartz vein is located along a shear which cuts through schists, limestone and granite. Scheelite occurs as large grains within the fractures of the vein and as large pods up to 10 centimetres in diameter. Similar veins are found 609 metres northeast.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3940

EMPR GEM 1972-95

EMPR PF (82N General File - Canadian Superior Exploration 82N/4E,4W, 1976)

geochemistry maps, 8 GSC MAP 4-1961; 43-1962

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 040

NATIONAL MINERAL INVENTORY:

NAME(S): **EX 11** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

NORTHING: 5658907 **EASTING: 440768** 

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REPORT: RGEN0100

1074

LATITUDE: 51 04 43 N LONGITUDE: 117 50 44 W ELEVATION: 2164 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized outcrop, 3 kilometres south of Albert Creek, about 30 kilometres east of Revelstoke (Assessment Report 3940).

COMMODITIES: Tungsten Copper Molybdenum

**MINERALS** 

SIGNIFICANT: Scheelite Chalcopyrite Molybdenite

ASSOCIATED: Garnet Diopside Epidote Quartz Calcite **Pyrite** 

Actinolite Vesuvianite COMMENTS: Also pyrrhotite.

ALTERATION: Garnet Diopside **Epidote** Quartz Calcite Actinolite Vesuvianite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K05 W skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Proterozoic-Paleoz. **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Hamill Paleozoic Lardeau Undefined Formation

LITHOLOGY: Limestone Schist

Quartzite Granite Gneiss Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains TERRANE: Kootenay Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The rocks of the area consist of a series of Hadrynian to Lower Cambrian and younger schists and gneisses which have been intruded by a variety of plutonic rocks (age unknown). The schists and gneisses have been folded into a large anticline which plunges moderately to the northeast. Albert Creek follows approximately the axial trace of this anticline so that equivalent rocks are found on both side of Albert Canvon.

The metamorphosed rocks belong to the Lower Cambrian and younger Lardeau Group and Hadrynian to Lower Cambrian Hamill Group. The younger Lardeau Group consists of a succession of phyllites and gneisses with minor limestone bands. The underlying Hamill Group rocks consist of quartzites, quartz mica schists and several limestone bands. Underlying the Hamill Group is hornblende-biotitequartz-plagioclase gneiss which may represent basement rock thrust up into the overlying metasediments.

Three separate intrusions occur and comprise hornblende biotite

diorite, biotite hornblende granodiorite and biotite granite.

Small lenses of skarn are developed in some limestone bands and consist of garnet, diopside with variable amounts of epidote, quartz, calcite, actinolite and vesuvianite.

At the EX 11 occurrence, a continuous band of skarn, averaging 0.9 metre wide, occurs over a distance of 762 metres at the base of a limestone unit that is interlayered with schist and quartzite in the core of an overturned anticline, near the contact with granite and hornblende-biotite-quartz-plagioclase gneiss. The skarn is vaguely banded and consists of garnet, diopside and lesser epidote, quartz,

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

calcite, actinolite and vesuvianite. Minor disseminated pyrite, pyrrhotite, chalcopyrite, molybdenite and scheelite occur in the skarn. Small patches of scheelite are occasionally found in the gneiss and granite, and also on fracture surfaces.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3940

EMPR GEM 1972-95 EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 041

NATIONAL MINERAL INVENTORY:

NAME(S): ROSE AND DAISY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N02E BC MAP:

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

LATITUDE: 51 01 48 N NORTHING: 5653207 EASTING: 521894

PAGE:

REPORT: RGEN0100

1076

LONGITUDE: 116 41 16 W ELEVATION: 1386 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: The showing is located on the ridge between the Columbia and Spillimacheen rivers at a point almost opposite Castledale, and about 6 kilometres southwest of Parson (Minister of Mines Annual Report

1920, page N108).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Galena COMMENTS: Inferred from commodity.

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Horsethief Creek Hadrynian

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Shale

Silty Shale Quartz Siltstone Sandstone Limestone Dolomite

Quartz Pebble Conglomerate

Quartz Sandstone

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Purcell Mountains

**CAPSULE GEOLOGY** 

The Rose and Daisy occurrence is situated on the ridge between the Columbia and Spillimacheen rivers at a point almost opposite Castledale. About 30 metres of tunnelling was done in an effort to develop some small surface showings, but the results did not come up to expectations and the work was abandoned. Elsewhere on the property there is a strong surface showing of low-grade lead ore reported to have given excellent results (Minister of Mines Annual Report 1920, pages N108, N109).

The geology of the area is inferred from Geological Survey of

Canada Map 1501A. In the occurrence area, Hadrynian Horsethief Creek Group sedimentary rocks are indicated. The group consists of shales and silty shales with thin interbeds of quartz siltstone and sandstone, limestone and dolomite, sandstone and quartz pebble conglomerate, and interbedded quartz sandstone and slate. Nea the contact with the Hadrynian to Lower Cambrian Hamill Group. Nearby is

**BIBLIOGRAPHY** 

EMPR AR \*1920-N108,N109

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 295A; 1501A

GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/09 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 042

NATIONAL MINERAL INVENTORY:

NAME(S): **SAPHIRE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N05W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1077

NORTHING: 5690833 EASTING: 432317

LATITUDE: 51 21 53 N LONGITUDE: 117 58 20 W ELEVATION: 2286 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: The centre of the claim group is located about 400 metres north of Downie Lake, between mounts Anstey and Moloch, approximately 40

kilometres northeast of Revelstoke (Geology, Exploration and Mining

in British Columbia 1973, page 118).

COMMODITIES: Lead

Zinc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite COMMENTS: Minerals are inferred from description.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement TYPE: E14 Sedin

Sedimentary exhalative Zn-Pb-Ag

COMMENTS: Character and classification are inferred from description.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Badshot** 

Lower Cambrian **Undefined Group** 

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay

**CAPSULE GEOLOGY** 

The centre of the claim group is located about 400 metres north of Downie Lake, between mounts Anstey and Moloch, approximately 40

kilometres northeast of Revelstoke.

The Saphire occurrence is underlain by Lower Cambrian Badshot Formation limestone. Disseminated galena and sphalerite occurs in limestone (inferred from Ministry of Mines property description

form).

**BIBLIOGRAPHY** 

EMPR GEM \*1973-118,119

GSC MAP 4-1961; 43-1962

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/09 CODED BY: GSB FIELD CHECK: N REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 043

NATIONAL MINERAL INVENTORY:

NAME(S): HORSE CREEK, NICHOLSON, HUNT, HORSE RIVER, HORSE CREEK SILICA

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N02W Open Pit

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1078

NORTHING: 5673311 EASTING: 509760

BC MAP:

LATITUDE: 51 12 40 N LONGITUDE: 116 51 37 W ELEVATION: 1219 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry, 3 kilometres east of the Columbia River and south of Horse Creek, about 12 kilometres south-southeast of Golden (Property File -

Bullis, 1980).

COMMODITIES: Silica

Aggregate

**MINERALS** 

SIGNIFICANT: Quartz MINERALIZATION AGE: Ordovician

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary

Industrial Min. TYPE: R07 Silica sandstone

SHAPE: Regular

MODIFIER: Faulted

STRIKE/DIP: 220/32N TREND/PLUNGE: DIMENSION: Metres

COMMENTS: Attitude of local dolomite outcrop.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Ordovician **Undefined Group** Ordovician-Silurian

Undefined Group

**FORMATION** Mount Wilson Beaverfoot

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Quartzite

Dolomite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Continental Ranges

**RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: HUNT

REPORT ON: Y

CATEGORY: QUANTITY:

Probable 3000000 Tonnes YEAR: 1985

COMMODITY Silica

**GRADE** 

Per cent 99.5000

COMMENTS: Estimated open pit reserves; grade from personal communication with

Z.D. Hora, 1991. REFERENCE: Open File 1987-15.

CAPSULE GEOLOGY

The Nicholson deposit is located about 12 kilometres south-southeast of Golden, about 3 kilometres east of the Columbia

River and south of Horse Creek.

Quarrying operations take place on quartzite of the Middle and/or Upper Ordovician Mount Wilson Formation. Quartzites in the area are exposed in faulted segments and are massive, hard, firmly cemented, pale grey or bluish to white, or light buff coloured. The quartz grains are 0.12 to 0.85 millimetre in diameter with most in the 0.25 to 0.50 millimetre marks. the 0.25 to 0.50 millimetre range. A northeast trending transverse fault has the effect of repeating the uppermost bed of high quality silica. Thinly bedded, fine-grained dolomite of the Middle Ordovician-Silurian Beaverfoot Formation outcrops locally and strikes between 220 to 280 degrees and dips 32 to 35 degrees northwest.

Shipments began in 1980 and production has been approximately 30,000 tonnes per year (Open File 1987-15). The silica is used for silicon and ferrosilicon production. In 1984, some the finer grained waste was reportedly used in cement manufacturing.

Open-pittable reserves were estimated in 1985 to be 3 million

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

tonnes grading 99.5 per cent (Z.D. Hora, personal communication 1991; Open File 1987-15). Two samples taken in 1985 from the stockpile of processed material analysed 99.85 and 99.90 weight per cent silica (Open File 1987-15).

Bert Miller Trucking and Contracting Ltd. is producing approximately 60,000 tonnes annually and has started to process the undersize product, accumulating at a rate of 10,000 tonnes annually, into a variety of fine to coarse aggregate products (Information Circular 1996-1, page 9).

Nugget Contracting Ltd. was producing 70,000 tonnes annually, of which 50,000 tonnes is shipped to Wenatchee, Washington (Information Circular 1997-1, page 12).

### **BIBLIOGRAPHY**

EMPR ASS RPT 5235

EMPR ENG INSP Annual Report 1989

EMPR EXPL 1975-203; 1978-239; 1979-336; 1980-543; 1985-A49; 1996-A13; 1997-51

EMPR GEM 1970-511; 1973-565; 1974-399

EMPR INF CIRC 1995-1, p. 9; 1996-1, p. 9; 1997-1, p. 12; 1998-1, p. 13

EMPR MAP 65 (1989)

EMPR MINING 1975-1980 Vol.I, p. 48; 1981-1985, p. 70; 1986-1987, pp. 94,95; 1988, pp. 93,94

EMPR OF \*1987-15, pp. 10, 11; 1992-1; 1992-9; 1994-1

EMPR PF (\*Bullis, A.R. (1980): Hunt Silica Quarry; 82N General File - Prospector's map, 1937)

GSC MAP 295A; 1502A

GSC MEM 55

GSC OF 481

GSC SUM RPT 1932 Part A

DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1996/11/13 REVISED BY: GRF

MINFILE NUMBER: 082N 043

PAGE:

FIELD CHECK: N

FIELD CHECK: N

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 044

NATIONAL MINERAL INVENTORY:

NAME(S): KING DAVID

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N07W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1080

NORTHING: 5683502 EASTING: 507862

LATITUDE: 51 18 10 N LONGITUDE: 116 53 14 W ELEVATION: 1036 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located along the Kicking Horse River, about 6.4 kilometres east of

Golden on Highway 1 (Assessment Report 184).

COMMODITIES: Germanium Platinum Uranium 7irconium

MINERALS SIGNIFICANT: Pyrite Marcasite Graphite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Disseminated CLASSIFICATION: Sedimentary Industrial Min.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Ordovician Cambrian-Ordovician Undefined Group Glenogle **Undefined Formation** McKay

LITHOLOGY: Carbonaceous Shale

Argillaceous Sandstone

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1957 CATEGORY: Assay/analysis SAMPLE TYPE: Grab

COMMODITY GRADE

Germanium 0.0200 Per cent Platinum 0.4000 Grams per tonne 0.0250 Uranium Per cent 0.1200 Per cent 7irconium

REFERENCE: Assessment Report 184.

**CAPSULE GEOLOGY** 

Carbonaceous shales with pyrite, marcasite and graphite contain minor germanium, zirconium, uranium and trace platinum. A sample assayed 0.02 per cent germanium, 0.12 per cent zirconium, 0.025 per cent uranium and 0.4 gram per tonne platinum (Assessment Report 184). The black shales belong to the Ordovician Glenogle Formation and nearby argillaceous sandstone and dark grey limestone belong to the Upper Cambrian to Middle Ordovician McKay Group.

**BIBLIOGRAPHY** 

EM GEOFILE 2000-2; 2000-5

EMPR AR 1958-72 EMPR ASS RPT \*184

EMPR MAP 22 EMPR PF (Notes by G. Addie, 1979; 82N General File - Prospector's

map, 1937) GSC MAP 295A; 1497A GSC OF 481; 551

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/26 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 045

NATIONAL MINERAL INVENTORY: 082N4 Sn1

NAME(S): MCDOUGAL CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04E BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1081

NORTHING: 5657169 EASTING: 453635

LATITUDE: 51 03 51 N LONGITUDE: 117 39 42 W ELEVATION: 2438 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Located about 8 or 9 kilometres up from the mouth of McDougal Creek,

near the headwaters of an east tributary close to the summit of Charity Peak, about 38 kilometres east-northeast of Revelstoke

(Minister of Mines Annual Report 1914, page K272).

COMMODITIES: Tin

**MINERALS** 

SIGNIFICANT: Cassiterite ASSOCIATED: Mica MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite

TYPE: O03 Muscovite pegmatite J01 Polymetallic manto Ag-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Pegmatite Dike

Pegmatite Porphyritic Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Selkirk Mountains

**CAPSULE GEOLOGY** 

The McDougal Creek showing is located up near the headwaters of an east tributary to the creek, where pegmatite dikes,  $1.2\ \text{to}\ 3$ metres wide, strike east across the creek and dip almost vertical. The lower dike contains a few scattered crystals of cassiterite and minor light-coloured pearly mica. The dikes crosscut Early and/or

mid-Cretaceous coarse grained porphyritic granite.

**BIBLIOGRAPHY** 

EMPR AR \*1914-K271-K273

EMPR FIELDWORK 2000, pp. 231-252

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/09/23 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 046

NATIONAL MINERAL INVENTORY:

NAME(S): HCJ

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N07W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1082

LATITUDE: 51 16 04 N LONGITUDE: 116 54 00 W ELEVATION: 1219 Metres NORTHING: 5679608 EASTING: 506976

LOCATION ACCURACY: Within 500M

COMMENTS: Located along Stacey Creek east of the Columbia River, about 5

kilometres south-southeast of Golden (Assessment Report 3685).

COMMODITIES: Silica

MINERALS
SIGNIFICANT: Silica MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R07 Silica sandstone DIMENSION: 30 STRIKE/DIP: 130/67N TREND/PLUNGE: Metres

COMMENTS: Quartzite beds strike 120 to 140 degrees and dip 60 to 75 degrees

northeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Ordovician GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Mount Wilson

LITHOLOGY: Quartzite Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Quartzite beds of the Middle and/or Upper Ordovician Mount Wilson Formation strike 120 to 140 degrees and dip 60 to 75 degrees northeast. On the HCJ property the quartzite forms a continuous northwesterly trending cliff. Thicknesses up to 30 metres may be sufficiently free of impurities to constitute high-grade silica. The unit varies from a quartzite with well-cemented glassy quartz grains

to a less well-cemented white sandstone.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3685 EMPR GEM 1972-616,617

EMPR OF 1987-15

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1497A GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/26 CODED BY: GSB REVISED BY: GRF FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 047

NATIONAL MINERAL INVENTORY: 082N4 Ag1

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

Gold

NORTHING: 5673677 EASTING: 446139

PAGE:

REPORT: RGEN0100

1083

NAME(S): SANQUHAR, SUMMIT LODE, ELKHORN

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082N04W BC MAP:

LATITUDE: 51 12 43 N LONGITUDE: 117 46 16 W ELEVATION: 2042 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft and adits on a ridge top, located 1.75 kilometres northnortheast of Corbin Pass about 3 kilometres north of Illecillewaet Station of the Canadian Pacific Railway, 40 kilometres eastnortheast of Revelstoke (Assessment Report 14219).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

Chalcopyrite Tetrahedrite **Pyrite** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hvdrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE <u>GROUP</u> Paleozoic Lardeau Undefined Formation

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE:

PHYSIOGRAPHIC AREA: Selkirk Mountains

Copper

INVENTORY

ORE ZONE: ADIT

REPORT ON: N

YEAR: 1984

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip COMMODITY

Silver I ead

7inc

**GRADE** 699,9000 Grams per tonne 1.8800 Per cent 0.1800 Per cent

COMMENTS: A 0.3-metre chip sample from an upper adit. REFERENCE: Assessment Report 14219.

**CAPSULE GEOLOGY** 

The Sanquhar occurrence is located 1.75 kilometres north-northeast of Corbin Pass about 3 kilometres north of Illecillewaet Station of the Canadian Pacific Railway, 40 kilometres east-northeast of Revelstoke. The Jumbo occurrence (082N 048) is 500 metres to the north and 426 metres lower in elevation, on the Tangier River valley

Bedrock in the vicinity of the Sanquhar adits and shaft consist of northwest striking, flat lying to steeply dipping black to dark greenish slates of the Lower Cambrian and younger Lardeau Group.

Near-vertical quartz veins, lenses and veinlets are mineralized with argentiferous galena, chalcopyrite, tetrahedrite and pyrite.

A 0.3-metre chip sample from an upper adit analysed 699.9 grams per tenno gilver 100 per gent lead and 0.10 per gent ging

per tonne silver, 1.88 per cent lead and 0.18 per cent zinc (Assessment Report 14219).

**BIBLIOGRAPHY** 

EMPR AR 1896-540; 1898-1062; 1899-678 EMPR ASS RPT \*12488, \*14219

EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976) GSC ANN RPT 1892-93 Volume VI, pp. 59R,60R

GSC MAP 4-1961; 43-1962

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/09/14 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 047

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 048

NATIONAL MINERAL INVENTORY: 082N4 Ag3

NAME(S): **JUMBO**, GLADSTONE

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83) NORTHING: 5674206

**EASTING: 445737** 

PAGE:

REPORT: RGEN0100

1085

LATITUDE: 51 13 00 N LONGITUDE: 117 46 37 W ELEVATION: 1615 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits, located about 500 metres north and 426 metres lower in elevation than the Sanquhar occurrence (082N 047) on the Tangier River valley side, 4.5 kilometres north of the Trans-Canada Highway

Silver

and Illecillewaet Station of the Canadian Pacific Railway, 40 kilometres east-northeast of Revelstoke (Assessment Report 14219).

COMMODITIES: Lead

Gold 7inc

**MINERALS** 

Pyrite SIGNIFICANT: Galena Sphalerite COMMENTS: Sphalerite is inferred from assay results.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au 101 Au-quartz veins

STRIKE/DIP: 140/ DIMENSION: Metres TREND/PLUNGE:

COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau Undefined Formation

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1984

SAMPLE TYPE: Grab COMMODITY Silver GRADE

1149,7000 Grams per tonne Per cent I ead 5.3000 Per cent Zinc 6.1500

COMMENTS: A grab sample from an adit. REFERENCE: Assessment Report 14219.

**CAPSULE GEOLOGY** 

The Jumbo adits are located about 500 metres north and 426 metres lower in elevation than the Sanquhar occurrence (082N 047) on the Tangier River valley side, 4.5 kilometres north of the Trans-Canada Highway and Illecillewaet Station of the Canadian Pacific Railway, 40 kilometres east-northeast of Revelstoke.

Bedrock in the vicinity of the adits consist of northwest striking, flat lying to steeply dipping black to dark greenish slates of the Lower Cambrian and younger Lardeau Group. Mineralization

consisting of argentiferous galena and pyrite occurs primarily within a massive, vertical quartz vein ranging from 0.9 to 2.7 metres in width. The vein strikes 140 degrees, nearly parallel to the

hostrock.

A grab sample from an adit analysed 1149.7 grams per tonne silver, 5.3 per cent lead and 6.15 per cent zinc (sphalerite is inferred from the assay results) (Assessment Report 14219).

**BIBLIOGRAPHY** 

EMPR AR 1888-304,324; 1889-279; 1890-364; 1893-1050; 1896-540; 1899-

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

677,678; 1900-811
EMPR ASS RPT \*12488, \*14219
EMPR BC METAL MM00605
EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)
GSC ANN RPT 1892-93 Volume VI, pp. 58R,59R
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1993/09/14

MINFILE NUMBER: 082N 048

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 049

NATIONAL MINERAL INVENTORY: 082N4 Ag3

NAME(S): **NORTH STAR** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N04W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1087

LATITUDE: 51 12 12 N LONGITUDE: 117 45 46 W ELEVATION: 1630 Metres

NORTHING: 5672713 EASTING: 446711

LOCATION ACCURACY: Within 5 KM

COMMENTS: Adit, about 1.6 kilometres from the Jumbo workings (082N 048) and 40 kilometres east-northeast of Golden (Minister of Mines Annual Report

1896, page 540). Location is uncertain based on available

descriptions.

COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIN

CHARACTER: Vein

CLASSIFICATION: Epigenetic

TYPE: I05 Polym

COMMENTS: Vein inferred. Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau **Undefined Formation** 

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The North Star showing is located about 1.6 kilometres from the Jumbo occurrence (082N 048). It was reported that an adit, 42 metres long, was driven to intersect a vein with argentiferous galena (Minister of Mines Annual Report 1899, page 678).

The hostrock at the showing is inferred from the nearby Jumbo

and Sanguhar (082N 047) occurrences and consists of northwest

striking Lower Cambrian and younger Lardeau Group slates. A quartz vein (inferred) vein hosts argentiferous galena.

**BIBLIOGRAPHY** 

EMPR AR \*1896-540; 1899-678 EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976)

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/09/15 FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 050

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1088

NAME(S): GOOD LUCK, TOUGH NUT, CINNAMON, COPPER CLIFF, BIG FOUR, BIG GOAT, HIGH EAGLE, HIGH HAWK

STATUS: Developed Prospect REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N03E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 51 11 25 N
LONGITUDE: 117 01 35 W
ELEVATION: 2377 Metres
LOCATION ACCURACY: Within 5 KM NORTHING: 5670985 EASTING: 498156

COMMENTS: Centre of a series of old Crown grants on NTS Map 82N/3E, Edition 1

that may be the claims mentioned in Minister of Mines Annual Report 1903, page H106, at the headwaters of McLean Creek, a tributary to Spillimacheen River, about 10 kilometres southwest of Golden.

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite

COMMENTS: Inferred from "copper ore". ASSOCIATED: Quartz
COMMENTS: Inferred from "vein".

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: 105 Po Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Group Lower Cambrian Unnamed/Unknown Formation

LITHOLOGY: Quartzite

Limestone Phyllite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Good Luck property is situated at the headwaters of McLean Creek, a tributary to Spillimacheen River, about 10 kilometres southwest of Golden. The location of the centre of old Crown grants is inferred from the description given in Minister of Mines Annual Report 1903, page H106 and NTS Map 82N/3E, Edition 1. Underground development by the Labourers' Co-operative Gold, Silver and Copper Mining Co. Ltd. consisted of a total of 510 motros of drifts Mining Co. Ltd. consisted of a total of 519 metres of drifts, crosscuts and shafts.

The geology of the area is inferred from Geological Survey of Canada Open File 481 which indicates Lower Cambrian quartzite, limestone, phyllite and argillite. Quartz veins (inferred) from 0.9 to 4.5 metres wide host up to 45 centimetres of copper ore (chalcopyrite is inferred) with values from \$4 to \$8 in gold (Minister of Mines Annual Report 1903, page H106).

**BIBLIOGRAPHY** 

EMPR AR 1900-803; 1902-H133; \*1903-H106; 1904-G112; 1905-J143

EMPR BC METAL MM00558

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 295A; 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB

FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/08/25 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 051

NATIONAL MINERAL INVENTORY: 082N3 Cu1

PAGE:

EASTING: 498150

REPORT: RGEN0100

1089

NAME(S): **TENNESSEE** 

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N03E BC MAP:

UTM ZONE: 11 (NAD 83) NORTHING: 5655509

LATITUDE: 51 03 04 N LONGITUDE: 117 01 35 W ELEVATION: 1866 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: The property is located on the north side of Bobbie Burns Creek on

what was locally known as "Spruce Tree Creek", which apparently joins Bobbie Burns Creek, about 29 kilometres south-southwest of Golden

(Minister of Mines Annual Report 1917, page F143).

Silver COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

Hvdrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Metasedimentary

GROUP Horsethief Creek **FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Hadrynian Undefined Formation

LITHOLOGY: Slate Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Tennessee property is located on the north side of Bobbie Burns Creek about 29 kilometres south-southwest of Golden. The claims were located on what was known locally as "Spruce Tree Creek", which apparently joins Bobbie Burns Creek at about 1524 metres elevation. The property adjoined the lower claims of the Tarheel property (082N 055). During the period 1916-1917, a 5-metre drift adit was driven. A small amount (unknown tonnage) of ore was extracted from near the portal of the adit and shipped to Trail (Minister of Mines Annual Report 1917, page F143).

(Minister of Mines Annual Report 1917, page F143).

The property is underlain by slates and schists of the Hadrynian Horsethief Creek Group. A quartz vein varying from 0.9 to 3 metres in width strikes northwesterly and dips 50 degrees, approximately conformable with the enclosing hostrocks. The vein contains narrow seams of chalcopyrite occurring at infrequent intervals. "The vein carries values in gold and silver" (Minister of Mines Annual Report 1916, page K188). Mineralization near the portal of the adit occurred over a width of 45 centimetres.

occurred over a width of 45 centimetres.

**BIBLIOGRAPHY** 

EMPR AR 1916-K188; \*1917-F143,F144

EMPR BC METAL MM00584

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/16 REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 052

NATIONAL MINERAL INVENTORY:

NAME(S): PORPHERY AND IRON HILL (L.268), PORPHYRY AND IRON HILL, EASTERN TOWNSHIP FR (L.269), EAGLE CLIFF (L.307)

STATUS: Prospect Underground MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N06E

BC MAP: LATITUDE: 51 15 56 N LONGITUDE: 117 06 57 W

ELEVATION: 1768 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 268, 1 kilometre northwest of the confluence of Canyon

and South Canyon creeks, about 8 kilometres west-southwest of Golden

(Minister of Mines Annual Report 1899, page 665).

Silver

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Metasedimentary

GROUP Unnamed/Unknown Group STRATIGRAPHIC AGE Lower Cambrian

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5679363 EASTING: 491919

REPORT: RGEN0100

1090

LITHOLOGY: Quartzite

Slate Felsite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Purcell Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Porphyry and Iron Hill property is located 1 kilometre northwest of the confluence of Canyon and South Canyon creeks, about 8 kilometres west-southwest of Golden. Early work comprised adits and crosscuts totalling about 90 metres.

Bedrock geology consists of Lower Cambrian quartzite and slate cut by felsite dikes (the age is inferred from Geological Survey of Canada Open File 481). A flat-lying quartz vein (10 to 30 degree dips) from 0.7 to 1.8 metres wide is hosted in quartzite and is mineralized with chalcopyrite which attains widths of 10 centimetres

to 1 metre.

**BIBLIOGRAPHY** 

EMPR AR 1898-1053; \*1899-594,664,665; 1900-802

EMPR BC METAL MM00574

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 295A; 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/08/26 FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 053

NATIONAL MINERAL INVENTORY: 082N7 Pb2

PAGE:

NORTHING: 5686622

EASTING: 531836

REPORT: RGEN0100

1091

NAME(S): SUNDAY, MONDAY FR., SUNDAY (L.211)

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Golden

NTS MAP: 082N07E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 19 48 N LONGITUDE: 116 32 35 W ELEVATION: 1188 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the steep bank of the Ottertail River near its confluence

with Haygarth Creek, just east of the Canadian Pacific Railway and Highway 1, in Yoho National Park, about 10 kilometres south of Field

(Geological Survey of Canada Memoir 55, Map 142A).

COMMODITIES: Lead Silver Copper 7inc

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Fluorite Galena Pyrite Chalcopyrite Tetrahedrite Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Podiform CLASSIFICATION: Epigenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP Chancellor IGNEOUS/METAMORPHIC/OTHER Middle Cambrian Undefined Formation

LITHOLOGY: Calcareous Slate

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SHAFT REPORT ON: N

> YEAR: 1921 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY GRADE Silver 178,2000 Grams per tonne

25.7000 Per cent I ead 17.8000 Per cent 7inc

COMMENTS: Galena and sphalerite in a calcite gangue. REFERENCE: Minister of Mines Annual Report 1921, page G123.

**CAPSULE GEOLOGY** 

The Sunday occurrence is situated along the confluence of Haygarth Creek and Ottertail River, just east of the Canadian Pacific Railway, in Yoho National Park about 28 kilometres east of Golden.

Highly cleaved, soft, greenish calcareous slates and argillites of the Middle Cambrian Chancellor Group are host to fluorite-calcite veins which occur along and across the bedding of the slate, and as

veins which occur along and across the bedding of the slate, and as pockets along fractures or small faults. The veins contain sphalerite, galena, pyrite, chalcopyrite and minor tetrahedrite.

In 1921, a sample of a little ore which had been left near the top of the shaft, consisting of galena and sphalerite in a calcite gangue, assayed 17.8 per cent zinc, 25.7 per cent lead, 178.2 grams per tonne silver and 0.34 gram per tonne gold (Minister of Mines

Annual Report 1921, page G123).

Workings prior to 1911 included a 22-metre adit in the upper part of the river bank and a 30-metre shaft sunk near river level. In 1901, six tonnes of ore, reportedly extracted from the bottom of t, was shipped to a smelter. In 1921, an adit was driven in the shaft, was shipped to a smelter. talus or clay-like material for 38 metres.

**BIBLIOGRAPHY** 

EMPR AR 1898-1054; 1899-594; 1907-L217; \*1921-G123,G124

EMPR BC METAL MM00583

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC EC GEOL No. 6, p. 30 GSC MAP 1496A GSC MEM \*55, pp. 224-225 GSC OF 481

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1993/06/30 FIELD CHECK: N

MINFILE NUMBER: 082N 053

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 054

NATIONAL MINERAL INVENTORY: 082N4 Ag6

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5674797 EASTING: 448381

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1093

NAME(S): CRYSTAL AND WONDERFUL, CRYSTAL (L.203), WONDERFUL

STATUS: Prospect REGIONS: British Columbia Underground

NTS MAP: 082N04E BC MAP:

LATITUDE: 51 13 20 N LONGITUDE: 117 44 21 W ELEVATION: 1920 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Opencut on the Crystal claim (Lot 203) which adjoins the Lanark mine

(082N 012) property to the east, located on the southerly slopes of Fidelity Peak 2 kilometres north of the Trans-Canada Highway, about 58 kilometres west of Golden (Minister of Mines Annual Report 1923,

page A233).

COMMODITIES: Lead Gold Silver Zinc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated

CLASSIFICATION: Replacement **Epigenetic** Hydrothermal DIMFNSION: 4 Metres STRIKE/DIP:

COMMENTS: Mineralized band on the original Wonderful claims.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau Undefined Formation

LITHOLOGY: Carbonaceous Schist

Slate Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1923

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 2588,1000 Grams per tonne Gold 0.6800 Grams per tonne Lead 60.0000 Per cent Per cent Zinc 6.0000

COMMENTS: Sample across 38 centimetres of galena.

REFERENCE: Minister of Mines Annual Report 1923, page A233.

CAPSULE GEOLOGY

The Crystal and Wonderful property adjoins the Lanark mine (082N 012) to the east, and is located on the southerly slopes of Fidelity Peak 2 kilometres north of the Trans-Canada Highway, about 58

kilometres west of Golden.

The property is underlain by Lower Cambrian and younger Lardeau Group carbonaceous schist, slate and limestone which strike northwest and dip steeply northeast. There are numerous showings of galena on the Crystal claim; the main Lanark vein is reported to strike across the claim. An opencut exposes about 45 centimetres of disseminated galena in a quartz vein hosted in slates and carbonaceous schist. The vein is conformable to the strike and dip of the hostrocks. short tunnel in the eastern part of the claim near the Lanark property has been driven on the inferred extension of the Lanark vein; 15 centimetres of galena in a small quartz vein was intersected.

On the original Wonderful claims, to the west and adjoining the Crystal claim, a mineralized band of shattered limestone with

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

quartz-calcite veins are conformable with the enclosing schist hangingwall and limestone footwall. The band strikes almost parallel to the Lanark vein which is 804 metres to the east. The band dips 50 degrees northeast and is 3.6 to 4.5 metres wide. Mineralization consists of bunches, stringers and lenses of galena and lesser sphalerite. Two short adits and a shallow shaft explored this mineralized band. In the lower adit, a sample across 38 centimetres of galena yielded 60 per cent lead, 6 per cent zinc, 2588.1 grams per tonne silver and 0.68 gram per tonne gold (Minister of Mines Annual Report 1923, page A233).

#### **BIBLIOGRAPHY**

EMPR AR 1899-279; 1890-364; 1896-557; 1920-N127; \*1923-A233 EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)
GSC MAP 237A; 4-1961; 43-1962
GSC OF 481
GSC P 62-32

GSC SUM RPT 1928 Part A, p. 188

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/09/14 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 054

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 055

NATIONAL MINERAL INVENTORY: 082N3 Cu2

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5654089 EASTING: 496339

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

1095

NAME(S): **TARHEEL**, RAINBOW

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082N03E BC MAP:

LATITUDE: 51 02 18 N LONGITUDE: 117 03 08 W ELEVATION: 1889 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: The lower showings are located on the north side of Bobbie Burns Creek about 29 kilometres south-southwest of Golden (Minister of

Mines Annual Report 1917, page F143).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz ALTERATION: Malachite Limonite

COMMENTS: Minerals are inferred from "copper and iron oxide staining".

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** Horsethief Creek Hadrynian

**FORMATION** Undefined Formation

LITHOLOGY: Slate

Schist Argillite Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

The Tarheel property is located on the north side of Bobbie Burns Creek about 29 kilometres south-southwest of Golden. The claims were reportedly located at the 1889-metre elevation, 365 metres above what was known locally as "Spruce Tree Camp" on Bobbie Burns Creek. The upper showing, staked as the Rainbow claim, is located on top of a narrow ridge at the 2377-metre elevation. Past work included a 36-metre drift adit driven on a strong, well-defined quartz vein at the 1889-metre elevation (lower showing), and a 30-metre drift adit driven along a quartz vein at the 2377-metre elevation (upper showing) (Minister of Mines Annual Report 1917, page F143).

The property is underlain by Hadrynian Horsethief Creek Group metasediments. The lower showing comprises a well-defined quartz vein within northwest striking slates and schists. The vein is locally mineralized with pyrite and chalcopyrite, and its strike and dip is almost identical to the hostrocks. For a short distance above the adit that follows this vein, intercalated bands of quartz and schist are copper stained (malachite?) for over a 4.8 metre width.

At the upper showing, which contains similar mineralization, a quartz vein is locally well mineralized above an adit, over a width of 30 centimetres. The hostrocks in this vicinity are contorted and consist of broken argillite and some limestone, which are stained with iron oxides (limonite?).

**BIBLIOGRAPHY** 

EMPR AR \*1917-F143,F176; 1918-K153; 1919-N113 EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 4-1961; 43-1962

GSC OF 481

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1993/08/16 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 055

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 056

NATIONAL MINERAL INVENTORY:

NAME(S): SEWARD

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N06E BC MAP: LATITUDE: 51 27 50 N

NORTHING: 5701413 EASTING: 498746

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1097

LONGITUDE: 117 01 05 W ELEVATION: 1219 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Several showings on the southerly slope of Willowbank Mountain, at Polecabin Creek and on a ridge separating Goat Mountain and Polecabin creeks, east of the Columbia River and about 20 kilometres north of

Golden (Minister of Mines Annual Report 1935, page E25). Lead

COMMODITIES: Silver

Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Tetrahedrite

ALTERATION: Malachite

COMMENTS: Inferred from "copper stain".

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Replacement **Epigenetic** Hydrothermal

TYPE: J01 Polymetallic manto Ag-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE FORMATION IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation

LITHOLOGY: Limestone

Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: SHOWING REPORT ON: N

> YFAR: 1935 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab **GRADE COMMODITY** 

342.8000 1.5000 Silver Grams per tonne Copper Per cent Per cent I ead 1.5000

REFERENCE: Minister of Mines Annual Report 1935, page E25.

**CAPSULE GEOLOGY** 

The Seward property is on the southerly slope of Willowbank Mountain, 6 kilometres east of the Columbia River and about 20 kilometres north of Golden. Several mineralized showings occur in the vicinity of Polecabin Creek: the first at creek level, the second at a point about 2.8 kilometres northwest of the creek level showing on a ridge on the southwest side of Polecabin Creek, and a third location at a point opposite the second showing on the northeast side of Polecabin creek.

The area is underlain by Cambrian to Devonian massive blue limestone which overlie thin-bedded shales. The showings comprise intersecting veins and veinlets of quartz-calcite hosted in limestone. Veins vary from 5 centimetres to 1.2 metres wide, are occasionally "copper stained" (malachite?) and are mineralized with galena and minor amounts of tetrahedrite. A sample of quartz with copper stain and some tetrahedrite analysed 342.8 grams per tonne silver, 1.5 per cent lead and 1.5 per cent copper (Minister of Mines Annual Report 1935, page E25).

**BIBLIOGRAPHY** 

EMPR AR \*1935-E25,E26

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 4-1961; 43-1962 GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 056

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 057 NATIONAL MINERAL INVENTORY: 082N5 Cu1

NAME(S): SILVER BOW, COPPER CROWN, COPPER HILL

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Revelstoke

NTS MAP: 082N05E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 17 06 N LONGITUDE: 117 39 57 W ELEVATION: 1981 Metres NORTHING: 5681729 EASTING: 453566

LOCATION ACCURACY: Within 5 KM

COMMENTS: The occurrence is situated in Glacier National Park near Copper

Peaks, about 6 kilometres north of the Flat Creek Station of the Canadian Pacific Railway, 56 kilometres west of Golden (Geological Survey of Canada Annual Report 1892-93 Volume VI, pages 60S,61S).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Carbonate Malachite Hematite

Malachite

ALTERATION: Hematite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation

LITHOLOGY: Talcose Schist Chloritic Schist

**GEOLOGICAL SETTING** TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Silver Bow occurrence is situated in Glacier National Park

near Copper Peaks, about 6 kilometres north of the Flat Creek Station of the Canadian Pacific Railway, 56 kilometres west of Golden.

A quartz-carbonate vein, 0.3 to 0.9 metre wide, is mineralized

with chalcopyrite and bornite; hematite and malachite are also evident. The vein dips 45 degrees to the west. Hostrocks are Lower Paleozoic talcose and chloritic schists which strike northwest and

dip northeast.

In 1896, workings consisted of 2 adits, 27 and 21 metres long respectively. In 1894, 16 tonnes of ore was shipped and yielded assays of 66 per cent lead, \$25 in gold and 274.2 grams per tonne silver (Geological Survey of Canada Annual Report 1894, page 1678).

**BIBLIOGRAPHY** 

EMPR AR 1896-540; 1898-1189; 1899-674,677,847 GSC ANN RPT \*1892-93 Volume VI, pp. 60R,60S,61S; 1894, p. 167S

GSC MAP 4-1961; 43-1962

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/09/09 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 057

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 058

NATIONAL MINERAL INVENTORY: 082N4 Pb1

NAME(S): KLONDYKE, SILVER GRIZZLY

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

Underground MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1100

NORTHING: 5676260 EASTING: 444323

LATITUDE: 51 14 06 N LONGITUDE: 117 47 51 W ELEVATION: 884 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: An adit is situated on the west bank of the Tangier River a few metres above water level, 1.5 kilometres south of the rivers confluence with Fang Creek, about 12 kilometres north of Albert Canyon Station of the Canadian Pacific Railway, approximately 60 kilometres west of Golden (Assessment Report 9993).

COMMODITIES: Lead Zinc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Limonite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation

LITHOLOGY: Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

Ancestral North America METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1981 Assay/analysis SAMPLE TYPE: Channel

COMMODITY **GRADE** 0.0800 Per cent I ead

0.1900 Per cent 7inc COMMENTS: Sample across 24 centimetres of a sparsely mineralized quartz vein.

REFERENCE: Assessment Report 9993.

CAPSULE GEOLOGY

An adit at the Klondyke occurrence is situated on the west bank of the Tangier River a few metres above water level, 1.5 kilometres south of the rivers confluence with Fang Creek, about 12 kilometres north of Albert Canyon Station of the Canadian Pacific Railway,

approximately 60 kilometres west of Golden.

The adit explores quartz veins and lenses from 10 to 50 centimetres wide hosted in Lower Paleozoic slate. Sparse mineralization in the veins consists of pyrite, galena, sphalerite and chalcopyrite. A 24-centimetre channel sample across a vein in the adit yielded 0.08 per cent lead and 0.19 per cent zinc (Assessment Report 9993). Approximately 35 metres directly above the adit, a heavily oxidized quartz outcropping contains pyrite and limonite.

Historical work comprised 3 adits totalling 61 metres.

**BIBLIOGRAPHY** 

EMPR AR 1929-C333; 1930-A260

EMPR ASS RPT \*9993

EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)

GSC MAP 4-1961; 43-1962

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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MINFILE NUMBER: 082N 058

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FIELD CHECK: N

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 059

NATIONAL MINERAL INVENTORY: 082N4 Ag4

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5669604 EASTING: 448621

REPORT: RGEN0100

1102

NAME(S): BLUE BELL

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Revelstoke

NTS MAP: 082N04E BC MAP:

LATITUDE: 51 10 32 N LONGITUDE: 117 44 06 W ELEVATION: 1371 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Shaft and adit, 1.6 kilometres southeast of Illecillewaet Station of

the Canadian Pacific Railway, about 42 kilometres east-northeast of Revelstoke (Minister of Mines Annual Report 1899, page 677).

COMMODITIES: Lead Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Paleozoic Lardeau Undefined Formation

LITHOLOGY: Carbonaceous Limy Slate

Limestone Siltstone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Blue Bell showing is located 1.6 kilometres southeast of

Illecillewaet Station of the Canadian Pacific Railway, about 42 kilometres east-northeast of Revelstoke.

The showing is underlain by carbonaceous limy slate, limestone, siltstone and quartzite of the Lower Cambrian and younger Lardeau Group. A shaft and tunnel explore a quartz vein 0.9 metre wide mineralized with argentiferous galena.

A 4.5-tonne shipment of ore was made to England in 1899.

**BIBLIOGRAPHY** 

EMPR AR 1893-1050; 1896-540; \*1899-677

EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/15 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 060

NATIONAL MINERAL INVENTORY: 082N1 Pb1

PAGE:

NORTHING: 5671650 EASTING: 560483

REPORT: RGEN0100

1103

NAME(S): **TOKUMM CREEK**, PHOEBE, VERMILION, MARGARET

STATUS: Showing MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N01E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 51 11 35 N LONGITUDE: 116 08 04 W

ELEVATION: 1524 Metres
LOCATION ACCURACY: Within 1 KM
COMMENTS: The showing is in Kootenay National Park and lies along the south

side of Tokumm Creek, nears its confluence with the Vermilion River, about 58 kilometres east-southeast of Golden (National Mineral

Inventory 82N/1 Pb 1).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Ochre
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown
CLASSIFICATION: Industrial Min.
COMMENTS: "Lead ochre".

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Unnamed/Unknown Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Sandstone

Shale Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

The Tokumm Creek showing was staked in 1912 and limited exploration work, mainly for assessment requirements, had been reported. The work included trenching and driving a short adit. 1915, about 9 tonnes of "lead ochre" ore were reported shipped to Trail from the Vermilion and Margaret claims.

Geological Survey of Canada Open File 481 indicates the area to be underlain by Cambrian to Devonian sandstone, shale and limestone.

**BIBLIOGRAPHY** 

EMPR AR 1913-K117; 1921-G165

EMR MP CORPFILE (Zenith Mines Ltd.) GSC MAP 1476A

GSC OF 481

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/06/23 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 082N 061

NATIONAL MINERAL INVENTORY: 082N4 Ag2

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5671426 EASTING: 448697

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1104

NAME(S): SILVER BELL, LAURIER

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082N04E BC MAP:

LATITUDE: 51 11 31 N LONGITUDE: 117 44 03 W ELEVATION: 1280 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Main adit, located 750 metres east of Illecillewaet River and the Trans-Canada Highway, about 1.5 kilometres northeast of Illecillewaet Station of the Canadian Pacific Railway, 42 kilometres east-northeast

of Revelstoke (Assessment Report 12951).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au DIMENSION:

STRIKE/DIP: 255/63N COMMENTS: Quartz vein.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Undefined Formation Lardeau

LITHOLOGY: Carbonaceous Slaty Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DUMP

CATEGORY: YEAR: 1983 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver

257.1000 Grams per tonne 7.5000 Per cent I ead 14.2500 Per cent 7inc

COMMENTS: Sample from adit dump material. REFERENCE: Assessment Report 12951.

**CAPSULE GEOLOGY** 

The Silver Bell workings are situated 750 metres east of Illecillewaet River and the Trans-Canada Highway, about 1.5 kilometres northeast of Illecillewaet Station of the Canadian Pacific Railway, 42 kilometres east-northeast of Revelstoke.

REPORT ON: N

In the vicinity of the adits, a series of parallel quartz veins striking east and dipping from 50 to 75 degrees north, are hosted in Group. The veins appear to conform to the bedding of the shale.

The main adit follows a quartz vein 20 to 45 centimetres wide, striking 255 degrees and dipping 50 to 75 degrees north.

Mineralization in the vein comprises galena, sphalerite and pyrite. A chip sample taken from dump material at the adit yielded  $7.5~\mathrm{per}$ cent lead, 14.25 per cent zinc and 257.1 grams per tonne silver (Assessment Report 12951).

A trial shipment of ore was made in 1901.

**BIBLIOGRAPHY** 

EMPR AR 1898-1062; 1900-811; 1901-1016; 1915-K450; 1931-A148 EMPR ASS RPT \*12951

EMPR PF (82N General File - Canadian Superior Exploration

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/15 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 061

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 062

NATIONAL MINERAL INVENTORY: 082N7 Pb2

NAME(S): **EMPIRE**, EMPIRE (L.506)

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N07E BC MAP:

MINING DIVISION: Golden

LATITUDE: 51 19 47 N UTM ZONE: 11 (NAD 83) NORTHING: 5686590

EASTING: 531681

PAGE:

REPORT: RGEN0100

1106

LONGITUDE: 116 32 43 W ELEVATION: 1219 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, 100 metres south of the confluence of Ottertail River and

Lead

Haygarth Creek and across from the Sunday occurrence (082N 053), east of the Canadian Pacific Railway and Highway 1 in Yoho National Park, 10 kilometres south of Field (Geological Survey of Canada Memoir 55,

Map 142A).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Tetrahedrite Galena **Bornite** 

Sericite Calcite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: E12 Mi Hydrothermal

Mississippi Valley-type Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** GROUP Chancellor IGNEOUS/METAMORPHIC/OTHER Middle Cambrian **Undefined Formation** 

LITHOLOGY: Calcareous Slate

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Continental Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

An old tunnel and prospect holes at the Empire occurrence reveal fractured, greenish, soft argillites and calcareous slates of the Middle Cambrian Chancellor Group. The fractures are filled with quartz, calcite and sericite mineralized with chalcopyrite, tetrahedrite, galena and bornite. The sulphides sometimes occur in small pockets along fractures or between the veins and the highly cleaved slates.

**BIBLIOGRAPHY** 

EMPR AR 1899-594; 1921-G123
EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 1496A

GSC MEM \*55, p. 224 GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/30 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 063

NATIONAL MINERAL INVENTORY:

NAME(S): **ILLECILLEWAET** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Revelstoke

PAGE:

REPORT: RGEN0100

1107

NORTHING: 5670862 EASTING: 446478

LATITUDE: 51 11 12 N LONGITUDE: 117 45 57 W ELEVATION: 1189 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: A pit, located 1000 metres west of Illecillewaet Station of the Canadian Pacific Railway, about 40 kilometres east-northeast of Revelstoke (Open File 1988-19, page 79).

COMMODITIES: Talc

Asbestos

**MINERALS** 

SIGNIFICANT: Talc Actinolite

ALTERATION: Talc ALTERATION TYPE: Talc Actinolite

MINERALIZATION AGE: Unknown

Serpentin'zn

**DEPOSIT** 

CHARACTER: Shear

CLASSIFICATION: Replacement Hydrothermal Industrial Min.

TYPE: E08 Carbonate-hosted talc

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic **GROUP** Lardeau

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Dolomite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

At the Illecillewaet showing, a pit 1 by 5 metres long exposes a shear zone in Lower Cambrian and younger Lardeau Group slates and limestone (dolomite?). Talc is found in the shear, and in outcrops extending for 600 metres. The talc is greenish grey to white, translucent and mixed with pale green actinolite (fibrous actinolite is referred to as amphibole asbestos in old reports).

An occurrence of steatite in dolomite is also reported about 10

kilometres west of the Illecillewaet showing, on Ross Peak.

**BIBLIOGRAPHY** 

EMPR AR 1921-G153; 1960-133 EMPR OF \*1988-19, pp. 77,79; 1995-25

EMPR PF (82N General File - Canadian Superior Exploration
 geochemistry maps, 82N/4E,4W, 1976)
GSC EC GEOL No. 2, p. 50

GSC MAP 237A; 4-1961; 43-1962 GSC OF 481

GSC P 62-32

Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/15 CODED BY: REVISED BY: MM

MINFILE NUMBER: 082N 063

FIELD CHECK: N

FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 064

NATIONAL MINERAL INVENTORY:

NAME(S): **CASTLEDALE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

NTS MAP: 082N02W BC MAP:

NORTHING: 5658185 EASTING: 514400

PAGE:

REPORT: RGEN0100

1108

LATITUDE: 51 04 30 N LONGITUDE: 116 47 40 W ELEVATION: 1630 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: The occurrence is situated on the ridge between the Columbia and Spillimacheen rivers at a point 11 kilometres due west of the community of Parson (Minister of Mines Annual Report 1920, page

N109).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hvdrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Sedimentary

TRATIGRAPHIC AGE

GROUP Horsethief Creek Hadrynian

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Shale

Silty Shale Quartz Siltstone Sandstone Limestone Dolomite

Quartz Pebble Conglomerate

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Purcell Mountains

**CAPSULE GEOLOGY** 

The Castledale occurrence is situated on the ridge between the Columbia and Spillimacheen rivers at a point 11 kilometres due west of the community of Parson. Considerable tunnelling was done on this property. In these workings the quartz vein does not show continuity and only a few small pockets of quartz mineralized with chalcopyrite were intersected (Minister of Mines Annual Report 1920, page N109).

The geology of the area is inferred from Geological Survey of

Canada Map 1502A. In the Castledale occurrence area, Hadrynian Horsethief Creek Group sedimentary rocks are indicated. The group consists of shales and silty shales with thin interbeds of quartz siltstone and sandstone, limestone and dolomite, sandstone and quartz pebble conglomerate, and interbedded quartz sandstone and slate.

**BIBLIOGRAPHY** 

EMPR AR \*1920-N109

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1502A

GSC OF 481

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1993/08/16 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 065

NATIONAL MINERAL INVENTORY:

NAME(S): I.X.L., CONDOR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N02E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1109

LATITUDE: 51 01 36 N LONGITUDE: 116 36 22 W ELEVATION: 975 Metres NORTHING: 5652864 EASTING: 527623

LOCATION ACCURACY: Within 5 KM

COMMENTS: The showing is located about 5 kilometres south of the village of Parson, about 1 kilometre west of the Columbia River (Minister of

7inc

Mines Annual Report 1917, page F144).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena Sphalerite COMMENTS: Inferred from assay results. MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Cambrian Undefined Group Canvon Creek

LITHOLOGY: Slate

Calcareous Slate

Limestone

HOSTROCK COMMENTS: Hostrocks are inferred from Geological Survey of Canada Map 1501A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1917

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 17.0000 Grams per tonne 4.0000 I ead Per cent

Per cent 7inc 3.0000 COMMENTS: Values range from 17 to 34 grams per tonne silver, 4 to 6 per cent

lead and 3 to 37 per cent zinc. REFERENCE: Minister of Mines Annual Report 1917, page F144.

**CAPSULE GEOLOGY** 

The I.X.L. and Condor claims were located near Castledale; very little work had been done, but according to reports there is a strong surface showing of low-grade ore (Minister of Mines Annual Report

1917, page F144).

The geology of the area is inferred from Geological Survey of Canada Map 1501A and consists of grey, finely laminated, partly Calcareous slate with thin interbeds of limestone locally, of the Upper Cambrian Canyon Creek Formation. Galena and sphalerite are inferred from the assays of a sample of the ore which analysed from 17 to 34 grams per tonne silver, 4 to 6 per cent lead and 3 to 37 per

cent zinc (Minister of Mines Annual Report 1917, page F144).

**BIBLIOGRAPHY** 

EMPR AR \*1917-F144

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1501A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/09 REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 066

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

NORTHING: 5675807

EASTING: 518773

REPORT: RGEN0100

1110

NAME(S): **MARIE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N02E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 51 14 00 N LONGITUDE: 116 43 52 W ELEVATION: 1798 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: The showing is situated between the Kicking Horse and Columbia rivers, about 10 kilometres east-southeast of Golden (Minister of

Mines Annual Report 1920, page N109).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian-Ordovician **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER McKay Undefined Formation

LITHOLOGY: Slate Shale Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional GRADE:

RELATIONSHIP:

INVENTORY

ORE ZONE: OPENCUT REPORT ON: N

> CATEGORY: YEAR: 1920 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver 82.2000 Grams per tonne 66.0000 Per cent I ead

COMMENTS: Sorted ore. REFERENCE: Minister of Mines Annual Report 1920, page N109.

**CAPSULE GEOLOGY** 

The Marie showing is situated between the Kicking Horse and Columbia rivers, about  $10\ \mathrm{kilometres}$  east-southeast of Golden. Several quartz stringers mineralized with galena have been exposed by an opencut. Some of the sorted ore assayed 66 per cent lead and 82.2 grams per tonne silver (Minister of Mines Annual Report 1920, page N109). Hostrocks are inferred from Geological Survey of Canada Map 1501A which indicate Upper Cambrian to Middle Ordovician McKay Group slate, shale and limestone.

**BIBLIOGRAPHY** 

EMPR AR \*1920-N109 GSC MAP 295A; 1501A

GSC OF 481

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/25 REVISED BY: GO FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 067

NATIONAL MINERAL INVENTORY: 082N4 Pb5

NAME(S): SILVER GLANCE

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Golden Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1111

LATITUDE: 51 14 52 N LONGITUDE: 117 46 23 W ELEVATION: 2133 Metres

NORTHING: 5677663 EASTING: 446045

LOCATION ACCURACY: Within 5 KM

COMMENTS: Old claims situated above timber-line at the headwaters of "9-Mile Creek", a tributary of Tangier River, about 28 kilometres north of Albert Canyon Station on the Canadian Pacific Railway, 44 kilometres

northeast of Revelstoke (Minister of Mines Annual Report 1929, page

COMMODITIES: Lead Silver Tin

**MINERALS** 

Stannite

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Replacement

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Lardeau Undefined Formation

LITHOLOGY: Limestone

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

The Silver Glance showing is located northwest of the Lanark occurrence (082N 012), above timber-line at the headwaters of "9-Mile Creek", a tributary of Tangier River, about 28 kilometres north of Albert Canyon Station on the Canadian Pacific Railway, 44 kilometres

northeast of Revelstoke.

The geology is similar to that at Lanark and consists of limestone and slate of the Lower Cambrian and younger Lardeau Group. Stannite is reported to occur with argentiferous galena in limestone.

**BIBLIOGRAPHY** 

EMPR AR \*1929-C333
EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976)

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/09/23 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 068

NAME(S): SILVER CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

LATITUDE: 51 07 31 N

LONGITUDE: 117 54 19 W ELEVATION: 792 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop in Woolsey (Silver) Creek about 2.4 kilometres south of its confluence with West Woolsey Creek, near the boundary of Mount

Revelstoke National Park, 30 kilometres northeast of Revelstoke (Geological Survey of Canada Summary Report 1928 Part A, page 149).

COMMODITIES: Fluorite

**MINERALS** 

SIGNIFICANT: Fluorite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Epigenetic Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u>

Paleozoic Unnamed/Unknown Group Devonian

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 082N4 Fsp1

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5664146

EASTING: 436649

REPORT: RGEN0100

1112

Unnamed/Unknown Informal

LITHOLOGY: Lamprophyre Dike

Gneiss

Granite

Gneissic Granitic Rock

Quartzite Mica Schist Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Plutonic Rocks

METAMORPHIC TYPE: Regional

Kootenay RELATIONSHIP: PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE:

**CAPSULE GEOLOGY** 

The Silver Creek occurrence area is underlain by Lower Paleozoic

The Silver Creek occurrence area is underlain by Lower Paleozoic mica schists, quartzites and small bands of fine grained crystalline limestones cut by numerous dikes, sills and irregular bodies of Devonian gneissic granitic rocks.

In Woolsey (Silver) Creek, about 2.4 kilometres below its confluence with West Woolsey Creek, a highly altered, dark grey, fine-grained "lamprophyre dike" consists of biotite, quartz and calcite. Fluorite and quartz fill amygdules (Geological Survey of Canada Summary Report 1928 Part A, page 149).

**BIBLIOGRAPHY** 

EMPR OF 1992-16
EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976)

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

GSC SUM RPT \*1928 Part A, pp. 148,149

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 DATE REVISED: 1993/09/23

MINFILE NUMBER: 082N 068

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 069

NATIONAL MINERAL INVENTORY: 082N7 Pb3

NAME(S): **PORCUPINE CREEK** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N07E BC MAP:

MINING DIVISION: Golden

LATITUDE: 51 17 43 N LONGITUDE: 116 39 19 W ELEVATION: 1310 Metres

UTM ZONE: 11 (NAD 83) NORTHING: 5682718 EASTING: 524035

PAGE:

REPORT: RGEN0100

1113

LOCATION ACCURACY: Within 1 KM

COMMENTS: The showing is located about 4.8 kilometres up the Porcupine Creek valley in Yoho National Park, approximately 16 kilometres southwest of Field (Geological Survey of Canada Memoir 55, page 234).

COMMODITIES: Lead

Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Fluorite
MINERALIZATION AGE: Unknown Galena Ankerite

Muscovite

Lepidomelane

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

**Epigenetic** 

TYPE: E11 Carbonate-hosted fluorspar

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Chancellor Middle Cambrian

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Slate

Calcareous Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

Considerable prospecting had been done in the Porcupine Creek area prior to 1910. About 4.8 kilometres up the valley, small fractures in slate and calcareous slate of the Middle Cambrian Chancellor Group contain vein material, 2 to 15 centimetres wide, consisting of pyrite and argentiferous galena in a gangue of fluorite, ankerite, muscovite and lepidomelane.

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 1496A GSC MEM \*55, pp. 234-235

GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/06

CODED BY: GSB REVISED BY: GO

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 070

NATIONAL MINERAL INVENTORY:

NAME(S): GOLDEN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

NTS MAP: 082N07W BC MAP: LATITUDE: 51 18 46 N

NORTHING: 5684608 EASTING: 500929

PAGE:

REPORT: RGEN0100

1114

LONGITUDE: 116 59 12 W ELEVATION: 782 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Columbia River flats, about 2 kilometres north of Golden. Location description is vague (Geological Survey of Canada Memoir 25, page

COMMODITIES: Clay

MINERALS

SIGNIFICANT: Clay MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Residual TYPE: B06 F Fireclay

Industrial Min. F07 Sedimentary kaolin

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation **Undefined Group** 

LITHOLOGY: Calcareous Silty Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Southern Rocky Mountain Trench TERRANE: Ancestral North America

CAPSULE GEOLOGY

Golden lies in the Columbia River valley, and along the Canadian Pacific Railway. The river is bordered by flat lands and locally underlying them is considerable silty clay of flood-plain origin. Some of it is very plastic, sticky material, while at other times it

is very sandy.

Results of laboratory tests on this clay is as follows. It is a highly calcareous, yellowish silty clay, which worked up with 32 per cent of water to a mass of only moderately plastic character, and hardly coherent enough to work in any but a soft-mud brick machine. The average tensile strength was 50 pounds per square inch and the average air shrinkage 4.5 per cent. average air shrinkage 4.5 per cent. The results obtained on firing are given below:

Cone	Fire Shrinkage (%)	Absorption (%)	Colour
010	Slightly swelled	42.6	Buff
05	Slightly swelled	42.6	Cream
03	Slightly swelled	45.2	Cream
1	Past vitrification		
2	Fused		

This clay burns to an exceedingly porous body, and softens rapidly as its point of fusion is approached. It could be used for  $% \left( 1\right) =\left( 1\right) =\left( 1\right)$ cheap majolica and common brick (Geological Survey of Canada Memoir 25, pages 69, 70).

BIBLIOGRAPHY

EMPR BULL 30, p. 53

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1497A

GSC MEM \*25, pp. 69,70

GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/26 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

STRIKE/DIP:

MINFILE NUMBER: 082N 071

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5674228

EASTING: 564139

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

1115

NAME(S): SILVER MOON, SILVER MOON (L.11708), MOUNT WHYMPER

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N01E BC MAP:

LATITUDE: 51 12 57 N LONGITUDE: 116 04 54 W ELEVATION: 1890 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Three talc bodies are located on the southeast slope of Mount Whymper, 2.5 kilometres southwest of the Alberta border and 840 metres northwest of Highway 93, in Kootenay National Park, about 60

kilometres east of Golden (Fieldwork 1992, page 373).

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc ASSOCIATED: Quartz

Dolomite Pyrite

Limonite

ALTERATION: Talc
ALTERATION TYPE: Talc
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Replacement Industrial Min.

TYPE: E08 Carbonate-hosted talc DIMENSION: 30 x 10 COMMENTS: Southwest talc body. Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** Middle Cambrian Undefined Group

Lower Cambrian Gog

**Undefined Formation** 

LITHOLOGY: Dolomite

Quartz Arenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

CAPSULE GEOLOGY

The Silver Moon talc bodies are on the southeast slope of Mount Whymper, 20.2 kilometres northwest of the Red Mountain talc occurrence (0820 002). They are 2.5 kilometres southwest of the Alberta border, and 840 metres northwest of, and 270 metres above Highway 93. The occurrences were originally staked by the Banff Talc Company in about 1915 and later Crown-granted (Lot 11708). Several cuts and two short adits were driven into the talc bodies.

The irregular bodies of white talc are 10 to 20 metres high and

**FORMATION** 

Cathedral

contain irregularly distributed, sheared lenses, pods and veins of high variable proportions of quartz and dolomite. In addition, bedded dolomite forms lenses and intervals in the talc bodies. talc bodies are at nearly the same elevation along 150 metres of the slope, near the base of horizontally bedded dolomites of the Middle Cambrian Cathedral Formation. The base of the talc is about 15 metres above quartz arenites of the Lower Cambrian Gog Group. bodies coincide with, and perhaps are localized along zones of well

developed northwest striking fracture cleavage.

The "southwest" talc body is 10 metres high (vertical) and 30 to 37 metres wide. An adit 7 metres from the southwest end of the body was driven northwesterly 9 metres. The "middle" body is 8 metres high and 23 to 29 metres northeast of the "southwest" body. The "northeast" body is 40 metres northeast of the "middle" body and up to 16 metres wide and 23 metres high; an adit was driven northwesterly 6 metres into the talc.

The "southwest" body appears to contain the highest proportion of talc, with about 10 per cent bedded dolomite lenses and locally to 10 per cent quartz pods and lenses. The talc is generally weakly translucent, frosty white with a pale greenish grey tinge on fresh surfaces. Locally, it is limonite stained and light to medium rusty orange in zones 1 metre or more wide. The talc is very strongly

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

fractured; slickensided shears also commonly cut the talc.

Pyritic lenses are surrounded by talc at both the "southwest" and "northeast" talc bodies, 1 to 3 metres above the basal contact. The lenses are up to 13 centimetres thick and 1 metre long, and dip horizontally to 25 degrees southwest. The "southwest" talc body contains 10 per cent very fine to fine anhedral pyrite irregularly scattered along stringers and within patches. The "northeast" talc body consists of gossanous talc with patches of clear grey dolomite with 8 per cent disseminated pyrite.

#### **BIBLIOGRAPHY**

EMPR FIELDWORK \*1992, pp. 361-379

EMPR OF 1988-19, pp. 80-81

GSC ECON GEOL No. 2, pp. 51-52

GSC MAP 1476A

GSC OF 481

CANMET RPT 803, pp. 57-59

Richmond, A.M. (1935): "B.C.'s Industrial and Nonmetallic Minerals"

paper presented at the Annual General Meeting of the Canadian
Institute of Mining and Metallurgy, Winnipeg, p. 24

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/12 REVISED BY: GO FIELD CHECK: Y

MINFILE NUMBER: 082N 071

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082N 072

NATIONAL MINERAL INVENTORY:

NAME(S): ALBERT CANYON

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1117

LATITUDE: 51 09 05 N

NORTHING: 5666987 **EASTING: 441988** 

LONGITUDE: 117 49 46 W ELEVATION: 823 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centred on outcrop on the south side of the Illecillewaet

River, 10 kilometres southwest of Glacier National Park, about 34 kilometres east-northeast of Revelstoke (Geological Survey of Canada

Map 43-1962).

COMMODITIES: Limestone

Marble

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Dolomite

Sphalerite Calcite

MINERALIZATION AGE: Lower Cambrian

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 Limestone DIMENSION: 1500 x 15

R04 Dimension stone - marble STRIKE/DIP: Metres TREND/PLUNGE: COMMENTS: Limestone strikes northwest for 1500 metres and dips 40 degrees

northeast.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Lower Cambrian

**Undefined Group** 

**FORMATION** Badshot

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

Marble Dolomite Mica Schist Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1944

SAMPLE TYPE: Chip **COMMODITY** 

Limestone

46.4800 Per cent

COMMENTS: Taken across a 15 metre thick bed. Grade given for calcium oxide. REFERENCE: CANMET Report 811, page 191, sample 52.

CAPSULE GEOLOGY

A 15 metre thick bed of limestone correlated to the Lower Cambrian Badshot Formation outcrops on either side of the Illecillewaet River in Albert Canyon, 10 kilometres southwest of Glacier National Park, about 34 kilometres east-northeast of Revelstoke. The bed strikes northwest for 1500 metres and dips 40 degrees northeast. The unit is overlain by mica schist and underlain by quartzite.

The bed generally consists of fine to medium grained, bluish grey limestone interbedded with some light grey limestone. Some The these carbonate beds consist almost entirely of dolomite. deposit is cut by thin, white calcite veinlets. Occasional crystals of sphalerite are also present. A sample taken across the carbonate bed analysed 46.48 per cent CaO, 6.74 per cent MgO, 2.44 per cent SiO2, 0.61 per cent Al2O3, 0.44 per cent Fe2O3 and 0.01 per cent sulphur (CANMET Report 811, page 191, Sample 52).

The limestone was once used to produce lime in a pot kiln on the

south side of the Canadian Pacific Railway track. The deposit was

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

then investigated as a source of marble sometime in the early 1940s.

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Canadian Superior Exploration

geochemistry maps, 82N/4E,4W, 1976) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32, pp. 6-7 CANMET RPT \*811, Part 5, pp. 187-188, 191

DATE CODED: 1989/10/04 DATE REVISED: 1993/09/22 CODED BY: PSF REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 072

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 073

NATIONAL MINERAL INVENTORY: 082N7 Pb2

NAME(S): ONTARIO (L.507)

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N07E BC MAP:

MINING DIVISION: Golden

LATITUDE: 51 19 35 N LONGITUDE: 116 31 32 W ELEVATION: 1280 Metres

UTM ZONE: 11 (NAD 83) NORTHING: 5686228 EASTING: 533057

PAGE:

REPORT: RGEN0100

1119

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the north side of Ottertail River about 1.5 kilometres east

of its confluence with Haygarth Creek and the Sunday occurrence (082N

053), in Yoho National Park, about 10 kilometres south of Field

(National Mineral Inventory 82N/7 PB2).

COMMODITIES: Copper Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena COMMENTS: Chalcopyrite is inferred from copper-galena ore sample.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: I14 Fiv Hydrothermal

Five-element veins Ni-Co-As-Ag±(Bi, U)

COMMENTS: Character and classification is inferred from nearby occurrences

(Sunday, 082N 053 and Empire, 082N 062).

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Middle Cambrian GROUP Chancellor **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Slate Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

At the Ontario showing, an adit of unknown length was driven into soft, greenish slates and argillites of the Middle Cambrian Chancellor Group, but has since been covered by talus. The showing is upstream from the Sunday (082N 053) and Empire (082N 062) occurrences, and is inferred to be a quartz vein mineralized with chalcopyrite and galena.

A copper-galena ore sample was sent to the Paris Exhibition (Minister of Mines Annual Report 1899, page 594).

**BIBLIOGRAPHY** 

EMPR AR 1899-594

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 1496A

GSC MEM \*55, p. 224 GSC OF 481

DATE CODED: 1993/06/30 DATE REVISED: 1993/06/30 CODED BY: GO REVISED BY: GO FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 074

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5692846 EASTING: 538427

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1120

NAME(S): MOUNT STEPHEN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N08W BC MAP:

LATITUDE: 51 23 08 N LONGITUDE: 116 26 52 W ELEVATION: 2194 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: The showing is located on the south slope of Mount Stephen in Yoho National Park, 3 kilometres east of Field (Geological Survey of

Canada Memoir 55, page 235).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: N01 Carbo Epigenetic Carbonatite-hosted deposits

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

**Undefined Group** Middle Cambrian

LITHOLOGY: Dolomitic Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Continental Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

On the south slope of Mount Stephen, about 3 kilometres east of Field, chalcopyrite-bearing quartz veins occur in fissures within dolomitic limestone of the Middle Cambrian Eldon Formation.

**FORMATION** 

Eldon

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 1483A GSC MEM \*55, p. 235

GSC OF 481

DATE CODED: CODED BY: FIELD CHECK: N DATE REVISED: 1993/08/06 REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 075

NATIONAL MINERAL INVENTORY:

PAGE:

EASTING: 528669

REPORT: RGEN0100

1121

NAME(S): **BARMAC** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden

NTS MAP: 082N02E BC MAP:

UTM ZONE: 11 (NAD 83) NORTHING: 5650399

LATITUDE: 51 00 16 N LONGITUDE: 116 35 29 W ELEVATION: 1097 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located approximately 1 kilometre north of Lead Mountain on the west side of the Columbia River, about 8 kilometres south of Parson

(Assessment Report 22484).

COMMODITIES: Barite Copper

**MINERALS** 

SIGNIFICANT: Barite Tetrahedrite Malachite Azurite

ASSOCIATED: Quartz ALTERATION: Malachite Azurite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
DIMENSION: 3 Hydrothermal Industrial Min. TREND/PLUNGE: Metres STRIKE/DIP:

COMMENTS: Barite veins vary from 0.1 to 3.1 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cambrian Undefined Group Eager

> LITHOLOGY: Shale Dolomite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Purcell Mountains TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

Vein-type barite occurrences on the Barmac property are hosted by shale and dolomite of the Lower to (?) Middle Cambrian Eager Formation. The barite is white to cream coloured and contains minor amounts of tetrahedrite, malachite and azurite. These barite veins vary from 0.1 to 3.1 metres wide. Some quartz is also associated

with the barite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*22484

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1501A

GSC OF 481

FIELD CHECK: N DATE CODED: 1993/08/09 CODED BY: GO DATE REVISED: / / REVISED BY: FIELD CHECK: N

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 076

NATIONAL MINERAL INVENTORY:

Crushed rock

NAME(S): GLENOGLE KICKING HORSE RIVER

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Golden

NTS MAP: 082N07W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

1122

LATITUDE: 51 17 23 N LONGITUDE: 116 50 24 W ELEVATION: 975 Metres NORTHING: 5682056 **EASTING: 511157** 

LOCATION ACCURACY: Within 500M

COMMENTS: Quarry, south of the Kicking Horse River about 9 kilometres east of Golden (CANMET Report 811, page 188).

COMMODITIES: Dolomite

Railroad Ballast

Aggregate

R15

**MINERALS** 

SIGNIFICANT: Dolomite ASSOCIATED: Silica COMMENTS: Silica as chert. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive

Industrial Min.

TYPE: R09 Limestone

SHAPE: Irregular MODIFIER: Folded Faulted COMMENTS: Dolomite belt trends northwest.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Ordovician-Silurian

<u>GROUP</u> Undefined Group **FORMATION** Beaverfoot

IGNEOUS/METAMORPHIC/OTHER

DATING METHOD: Fossil Cambrian-Ordovician

McKay

Undefined Formation

LITHOLOGY: Dolomite

Limestone Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis YFAR: 1944

COMMODITY

**GRADE** 

21.0200

Per cent

Dolomite

COMMENTS: Grade given for MgO. REFERENCE: CANMET Report 811, page 191, Sample 53.

**CAPSULE GEOLOGY** 

A northwest-trending belt of dolomite of the Middle Ordovician to Silurian Beaverfoot Formation is well exposed along the Transto Silurian Beaverroot Formation is well exposed along the Trans-Canada Highway (Highway 1), 1.5 to 3 kilometres west of Glenogle Station of the Canadian Pacific Railway and about 9 kilometres east of Golden, in the canyon of the Kicking Horse River. South of the river, the dolomite is thrust faulted against limestone of the Upper Cambrian to Middle Ordovician McKay Group to the west and flanked by quartzite of the Middle to Upper Ordovician Mount Wilson Formation to the cost. The strate are current and and dip moderately to strate the east. The strata are overturned and dip moderately to steeply eastward. The belt continues northwest of the Kicking Horse River for 12 kilometres where it becomes complicated by recumbent folding and thrust faulting.

The dolomite exposed along the highway is massive to thin bedded, light to dark grey and fine grained. Chert is abundant in places. Two grab samples analysed as follows (in per cent) (CANMET Report 811, page 191, Samples 53, 53B):

Sample Ca0 MgO SiO2 A1203 Fe203 Sulphur RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

 

 53
 31.21
 21.02
 1.28
 0.41
 0.28
 0.01

 53B
 31.09
 20.71
 1.10
 0.29
 0.46
 0.01

 Sample 53 is of very fine grained, light grey dolomite and Sample 53B is of faintly mottled, light grey dolomite.

The Glenogle quarry was operated by the Canadian Pacific Railway, 1.6 kilometres west of Glenogle Station, to supply dolomite

for use as railroad ballast, sometime during the early 1940s.

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 295A; 1497A GSC OF 481

CANMET RPT \*811, Part 5, pp. 188,191

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/26 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 076

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 077

NATIONAL MINERAL INVENTORY:

NAME(S): FIELD

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N08W BC MAP:

MINING DIVISION: Golden

LATITUDE: 51 23 45 N

UTM ZONE: 11 (NAD 83) NORTHING: 5693967 EASTING: 535307

PAGE:

REPORT: RGEN0100

1124

LONGITUDE: 116 29 33 W ELEVATION: 1234 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Native mercury is reported to have been found in the gravels of the Kicking Horse River valley in the vicinity of Field, in Yoho National

Park (Geological Survey of Canada Memoir 55, page 235).

COMMODITIES: Mercury

**MINERALS** 

SIGNIFICANT: Mercury MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer TYPE: P02

Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Undefined Group Undefined Formation

LITHOLOGY: Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

Native mercury is reported to have been found in the gravels of the Kicking Horse River valley in the vicinity of Field. Five samples of gravel were collected from the flood gravels within 3 kilometres of Field, and when panned, a trace of mercury was found in three out of the five samples. Native mercury was also found in panned gravels "from the edge of the river a few hundred feet below the bridge, opposite Field Station, from a depth of about 60 centimetres below the surface, where the high water had cut down to about that depth". A considerable amount of work was done in an attempt to locate the source of the mercury, but without results (Geological Survey of Canada Memoir 55, pages 235, 236).

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 1483A

GSC MEM \*55, pp. 235, 236

GSC OF 481

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/06 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 078

NATIONAL MINERAL INVENTORY:

NAME(S): WOOLSEY CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N04W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83) NORTHING: 5663487

EASTING: 437516

PAGE:

REPORT: RGEN0100

1125

LATITUDE: 51 07 10 N LONGITUDE: 117 53 34 W ELEVATION: 762 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Pegmatites exposed on a trail a short distance from the Canadian Pacific Railway, close to the boundary of Mount Revelstoke National Park, about 30 kilometres northeast of Revelstoke. The trail

(apparently obliterated by a logging road) follows Woolsey (Silver) Creek to the Snowflake occurrence (082N 003) (Geological Survey of Canada Economic Geology No. 23, page 61).

COMMODITIES: Beryl

**MINERALS** 

SIGNIFICANT: Beryl ASSOCIATED: Tourmaline MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Pegmatite

Industrial Min.

TYPE: P0Ž Kyanite-sillimanite schists

HOST ROCK

Devonian

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic

<u>GROUP</u> Unnamed/Unknown Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Pegmatite

Quartzite

Quartz Mica Schist Ortho Gneiss **Granite Gneiss** Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Plutonic Rocks METAMORPHIC TYPE: Regional

Kootenay

PHYSIOGRAPHIC AREA: Selkirk Mountains

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Pegmatites were exposed on a trail a short distance from the Canadian Pacific Railway. The trail (apparently obliterated by a logging road) follows Woolsey (Silver) Creek and leads to the Snowflake occurrence (082N 003).

The Woolsey Creek showing area is underlain by Lower Paleozoic quartzites, orthogneiss and quartz mica schists cut by Devonian granite-gneiss, granite and pegmatite. "Gunning found beryl in some of the pegmatites". Little or no tournaline was evident (Geological

Survey of Canada Economic Geology No. 23, page 61).

**BIBLIOGRAPHY** 

GSC ECON GEOL \*23, p. 61 GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 60-21, p. 10; 62-32 GSC SUM RPT \*1928 Part A, p. 156

PERS COMM McCammon, J.

DATE CODED: 1985/07/24 DATE REVISED: 1993/09/23 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 079

NATIONAL MINERAL INVENTORY:

NAME(S): **INCOMAPPLEUX RIVER** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N03W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1126

LATITUDE: 51 10 57 N LONGITUDE: 117 27 08 W ELEVATION: 1500 Metres

NORTHING: 5670217 EASTING: 468392

LOCATION ACCURACY: Within 5 KM

COMMENTS: Near the headwaters of Incomappleux River, in Glacier National Park, 38 kilometres west of Golden (Industrial Mineral File - J. McCammon,

personal communication).

COMMODITIES: Beryl

**MINERALS** 

SIGNIFICANT: Beryl MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Pegmatite TYPE: 001 Ra Industrial Min. Rare element pegmatite - LCT family

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP** Lower Cambrian Unnamed/Unknown Group **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Pegmatite

Quartzite Limestone Phyllite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Beryl crystals have been reported from pegmatite near the

headwaters of Incomappleux River, in Glacier National Park, about 38

kilometres west of Golden.

Geological Survey of Canada Open File 481 indicates the area to be underlain by Lower Cambrian quartzite, limestone, phyllite and

argillite.

**BIBLIOGRAPHY** 

GSC MAP 4-1961; 43-1962

GSC OF 481 GSC P 62-32

PERS COMM McCammon, J.

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1993/09/30 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 080

NATIONAL MINERAL INVENTORY:

NAME(S): SULLIVAN RIVER

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N13W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

1127

LATITUDE: 51 54 39 N

NORTHING: 5751546 EASTING: 434730

LONGITUDE: 117 56 56 W ELEVATION: 676 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location from Geological Survey of Canada Map 4-1961, along a roadcut of the old Big Bend Highway which is now under the water of Columbia

Reach, about 2 kilometres southeast of Sullivan River and approximately 100 kilometres north-northwest of Golden.

COMMODITIES: Nepheline Syenite

**MINERALS** 

SIGNIFICANT: Plagioclase K-Feldspar Feldspathoid Nepheline ASSOCIATED: Amphibole Biotite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Magmatic Industrial Min.

TYPE: R13 Nepheline syenite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

GROUP Unnamed/Unknown Group IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Unknown Unnamed/Unknown Formation

Paleozoic Unnamed/Unknown Informal

LITHOLOGY: Nepheline Syenite

Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

## **CAPSULE GEOLOGY**

A small mass of nepheline syenite is exposed along the old Big Bend Highway about 2 kilometres southeast of the Sullivan River. The original road has been flooded and is now under the water of Columbia Reach, about 100 kilometres north-northwest of Golden.

The nepheline syenite body is located from Geological Survey of Canada Map 4-1961, and is mid-Paleozoic (?). The rock is mainly medium grained, light grey with a vague gneissic banding. Feldspar and small amounts of amphibole and locally biotite can be recognized. Thin sections show a high proportion of plagioclase, lesser microcline-microperthite, and scattered grains of feldspathoid. Where exposed in roadcuts, the contact of the nepheline syenite with wallrocks is concordant and gradational. Wallrocks are mainly mica schists which locally have calcareous interbeds. The northwestern part of the nepheline syenite and its western contact are beneath the river flats (Minister of Mines Annual Report 1959, page 103).

**BIBLIOGRAPHY** 

EMPR AR \*1959-103,104 EMPR OF 1991-10

GSC MAP \*4-1961; 43-1962

GSC OF 481 GSC P 62-32

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/09/01 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 081

NATIONAL MINERAL INVENTORY:

NAME(S): SOLITUDE MOUNTAIN, CARIBOU CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N13W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

LATITUDE: 51 52 21 N

NORTHING: 5747138 **EASTING: 446989** 

PAGE:

REPORT: RGEN0100

1128

LONGITUDE: 117 46 12 W ELEVATION: 1828 Metres LOCATION ACCURACY: Within 500M

COMMENTS: A nepheline syenite body cutting across the valley of Caribou Creek, located from Geological Survey of Canada Map 4-1961, east of Columbia

Reach, about 87 kilometres north-northwest of Golden.

COMMODITIES: Nepheline Syenite

**MINERALS** 

SIGNIFICANT: K-Feldspar ASSOCIATED: Biotite
MINERALIZATION AGE: Unknown

Nepheline Amphibole

**Epidote** 

Metres

Garnet

Carbonate

**DEPOSIT** 

CHARACTER: Massive
CLASSIFICATION: Magmatic
TYPE: R13 Nepheline syenite Industrial Min.

DIMENSION: 1600 x 304 COMMENTS: Nepheline syenite body.

STRIKE/DIP:

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE

Ünknown Paleozoic

**GROUP** Unnamed/Unknown Group **FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Nepheline Syenite

Limestone Limy Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

### CAPSULE GEOLOGY

A dike-like body of nepheline syenite, identified from Geological Survey of Canada Map 4-1961, is situated 11 kilometres southeast of the Sullivan River and crosses the valley of Caribou Creek, about 87 kilometres north-northwest of Golden.

The Solitude Mountain nepheline syenite forms an irregular dike-like body a little more than 1.6 kilometres long and less than 304 metres wide, with its long axis trending about 290 degrees. The mid-Paleozoic (?) body cuts irregularly across part of the "Kinbasket limestone". The texture of the nepheline syenite varies from the west to east. In the west, it is coarse grained with closely packed, moderately well-formed crystals of potash feldspar and minor interstitial biotite. Towards the east it becomes fine to medium grained and near the east end is quite variable in texture and composition. Many dike-like tongues extend into the limestone and limy argillite around the eastern end of the mass, and inclusions of limestone within the syenite are common. Most of the syenite is composed of microcline-microperthite, nepheline, biotite and locally carbonate. Amphibole, epidote and garnet are present in coarse-grained lenses near the eastern end of the mass.

Contacts of the syenite with the enclosing limestone are generally well defined but in detail are highly irregular and are gradational over a couple of metres. On the southwest side of Caribou Creek, limestone forming inclusions in or lying along the margins of the syenite is altered to a fine grained greenish rock composed mainly of calcite with interstitial feldspar, clinozoisite

and chlorite.

**BIBLIOGRAPHY** 

EMPR AR \*1959-103,104

EMPR OF 1991-10 GSC MAP \*4-1961; 43-1962

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481 GSC P 32-62

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/09/01 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 082N 081

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 082

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

PHYSIOGRAPHIC AREA: Continental Ranges

UTM ZONE: 11 (NAD 83)

NORTHING: 5750280 **EASTING: 457707** 

REPORT: RGEN0100

1130

NAME(S): BUSH RIVER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 082N13E BC MAP:

LATITUDE: 51 54 06 N LONGITUDE: 117 36 53 W ELEVATION: 2438 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Two nepheline syenite bodies are located at the 2133 and 2438-metre elevations respectively, at the headwaters of a north tributary of

Chatter Creek, just north of a small unnamed lake, about 84

kilometres north-northwest of Golden (Geological Survey of Canada Map

43-1962).

COMMODITIES: Nepheline Syenite

**MINERALS** 

SIGNIFICANT: Nepheline MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Magmatic Industrial Min.

TYPE: R13 Nepheline syenite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Nepheline Syenite

GEOLOGICAL SETTING
TECTONIC BELT: Foreland

TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

At the Bush River occurrence, two mid to Late Paleozoic nepheline syenite bodies are located at the 2133 and 2438-metre elevations respectively, at the headwaters of a north tributary of Chatter Creek, just north of a small unnamed lake, about 84

kilometres north-northwest of Golden (Geological Survey of Canada Map

43-1962).

**BIBLIOGRAPHY** 

EMPR AR 1959-103

GSC MAP 4-1961; 43-1962 GSC OF 481

GSC P 62-32

DATE CODED: 1993/08/09 CODED BY: GO FIELD CHECK: N DATE REVISED: 1993/10/14 REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 082N 083

NATIONAL MINERAL INVENTORY:

NAME(S): GLENOGLE SLATE

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 082N07W BC MAP:

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

LATITUDE: 51 17 04 N

NORTHING: 5681472 EASTING: 512553

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

1131

LONGITUDE: 116 49 12 W ELEVATION: 1030 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Quarry, on the main line of the Canadian Pacific Railway along the Kicking Horse River, about 10.5 kilometres east of Golden. The location description is vague (CANMET Report 452, page 56).

COMMODITIES: Slate **Dimension Stone** 

**MINERALS** 

SIGNIFICANT: Unknown COMMENTS: Slate. ASSOCIATED: Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R I SHAPE: Regular INDÚSTRIAL ROCKS

MODIFIER: Fractured

DIMENSION: 100 x 5 Metres STRIKE/DIP: 025/60N TREND/PLUNGE:

**FORMATION** 

COMMENTS: Slate exposure near the river. The slate strikes 010 to 040 degrees

and dips 60 degrees north.

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Ordovician Undefined Group Ordovician

Glenogle Mount Wilson Undefined Group

LITHOLOGY: Slate

Shale Siltstone

Argillaceous Limestone

Sandstone Quartz Sandstone

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Continental Ranges

TECTONIC BELT: Foreland
TERRANE: Ancestral North America
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The Glenogle Slate quarry was worked at around the turn of the century and is located across the Kicking Horse River from Glenogle, on the main line of the Canadian Pacific Railway, about 10.5 kilometres east of Golden. The quarry was reportedly abandoned due to the hardness of the slate and the presence of pyrite.

The Glenogle area is underlain by shale, argillaceous limestone, siltstone and sandstone of the Ordovician Glenogle Formation. To the west is quartz sandstone of the Middle and/or Upper Ordovician Mount

Wilson Formation.

The slates, covered with 1 to 1.5 metres of gravel, are exposed near the river for a distance of about 100 metres and a height of 5 metres. The slate strikes 010 to 040 degrees and dips of degrees with a north. The jointing in the slates strike 190 to 210 degrees with a The pronounced cleavage strikes. steep, variable dip to the southeast. The pronounced cleavage strike

at 020 degrees and the quarry face appears intensely fractured.

A description of severely weathered and water-soaked material from the quarry face follows: "the slate is of dark blue-grey colour, irregular cleavage and dull "ring". The cleavage is not deficient but the planes are rough and irregular for the most part" (CANMET Report 452). No production figures are available.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Hora & McCammon, List of Occurrences, Ministry

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

library)
EMPR PF (82N General File - Prospector's map, 1937)
GSC MAP 295A; \*1497A
CANMET RPT \*452, p. 56

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/26 CODED BY: GSB REVISED BY: DEJ

MINFILE NUMBER: 082N 083

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 084

NATIONAL MINERAL INVENTORY:

NAME(S): **VERMILION PASS** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

NTS MAP: 082N01E BC MAP:

NORTHING: 5676186 EASTING: 565084

PAGE:

REPORT: RGEN0100

1133

LATITUDE: 51 14 00 N LONGITUDE: 116 04 04 W ELEVATION: 1798 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Located near the British Columbia-Alberta border in Kootenay National Park, 64 kilometres east of Golden at Vermilion Pass (CANMÉT Report

452, pages 23, 141, 142).

COMMODITIES: Marble

Dimension Stone

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite

Magnetite

ASSOCIATED: Pyrite
MINERALIZATION AGE: Cambrian

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Massive Industrial Min.

TYPE: R04 Dimension stone - marble

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Cambrian

<u>GROUP</u> Unnamed/Unknown Group **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Marble

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

CAPSULE GEOLOGY

At the Vermilion Pass showing, white shattered Cambrian marble occurs in great masses, containing disseminated grains of pyrite and

magnetite.

**BIBLIOGRAPHY** 

GSC MAP 142A; 1476A

GSC MEM 55

GSC OF 481 CANMET RPT \*452, pp. 23,141,142

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/23 CODED BY: GSB REVISED BY: PSF

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 085

NATIONAL MINERAL INVENTORY:

NAME(S): YOHO RIVER

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N08W

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

1134

BC MAP: LATITUDE: 51 27 13 N

NORTHING: 5700418 **EASTING: 538737** 

LONGITUDE: 116 26 33 W ELEVATION: 1433 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location is centred on a switchback on the Yoho River road, 2.6 kilometres north of the confluence of Yoho River with Kicking Horse River, 7.5 kilometres north of Field (Geological Survey of Canada Map

1483A).

COMMODITIES: Dolomite

**MINERALS** 

SIGNIFICANT: Dolomite

ASSOCIATED: Calcite Quartz Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 Limestone

DIMENSION: 122 STRIKE/DIP: 095/18N Metres x 76 COMMENTS: A dolomite bed along a road (Geological Survey of Canada Map 1483A).

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Middle Cambrian Undefined Group **FORMATION** Cathedral

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Dolomite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

**GROUP** 

PHYSIOGRAPHIC AREA: Continental Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1944

SAMPLE TYPE: Chip

COMMODITY

GRADE 20.9100 Per cent

Dolomite

COMMENTS: Average of 5 samples taken across 91.4 metres. Grade given is for MgO.

REFERENCE: CANMET Report 811, page 191, samples 55, 55A to 55C.

**CAPSULE GEOLOGY** 

A dolomite bed of the Middle Cambrian Cathedral Formation is exposed on a switchback on the Yoho River road, 2.6 kilometres northwest of the river's confluence with the Kicking Horse River. The bed continues eastward outcropping along the lower slopes of Mount Ogden. The bed at the switchback is 107 to 122 metres thick, strikes 095 degrees and dips 8 to 18 degrees north.

The upper 76 metres of the bed is comprised of coarse grained,

variably mottled dolomite commonly containing small vugs partially filled with calcite. The remaining lower portion of the bed is fine grained and pale blue in colour. The dolomite is massive to thinly bedded and weathers to a brownish grey colour. Occasionally narrow veins of milky white quartz cut the dolomite. Sparsely scattered pyrite occurs in some beds.

A series of chip samples taken in succession across a total stratigraphic thickness of 91.4 metres analysed 30.81 per cent CaO, 20.91 per cent MgO, 0.38 per cent SiO2, 0.33 per cent Al2O3, 0.66 per cent Fe2O3 and trace sulphur (CANMET Report 811, page 191, samples 55, 55A to 55C).

**BIBLIOGRAPHY** 

EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 142A; 1483A GSC MEM 55, p. 67

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 481 CANMET RPT 452, Vol.5, pp. 142,143; \*811, Part 5, pp. 189-191

DATE CODED: 1985/07/24 DATE REVISED: 1993/06/23 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 082N 085

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 086

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5725007 **EASTING: 476721** 

REPORT: RGEN0100

1136

 $\begin{array}{ll} \text{NAME(S): } & \underline{\textbf{GRIZZLY}}, \text{ LIZA, SHEEP,} \\ & \overline{\text{RAM}} \end{array}$ 

STATUS: Showing Underground MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 082N11W

BC MAP:

LATITUDE: 51 40 32 N LONGITUDE: 117 20 12 W

ELEVATION: 2194 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Old adit near a ridge top, 2 kilometres southeast of Felucca and

Blackwater mountains, about 50 kilometres northwest of Golden

(Assessment Report 18053).

COMMODITIES: Copper Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Tetrahedrite ASSOCIATED: Quartz Galena Pyrite

Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DOMINANT HOSTROCK: Metasedimentary

GROUP Chancellor **FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Middle Cambrian Undefined Formation

LITHOLOGY: Argillaceous Limestone

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: YEAR: 1988 Assay/analysis SAMPLE TYPE: Grab

COMMODITY Silver GRADE 315.0000 Grams per tonne 0.9500 Gold Grams per tonne 0.7100 Copper Per cent Per cent I eád 0.5400

COMMENTS: Picked sample of vein material. REFERENCE: Assessment Report 18053.

**CAPSULE GEOLOGY** 

The Grizzly occurrence area is underlain by thin bedded, grey and grey-brown limestone and argillaceous limestone correlated with the Middle Cambrian Chancellor Group. The area has apparently undergone intense deformation with the development of overturned isoclinal folds and thrust faults as well as a strong fracture cleavage at approximately 130 degrees.

Mineralization on the property consists of tetrahedrite, galena and pyrite as small blebs and lenses within quartz/carbonate veins. Tetrahedrite appears to be more common within quartz, and galena within carbonate. There are from 3 to 7 veins on the property which have strikes parallel to the regional trend. They range from 0.3 to 1 metre in width. There is very little wallrock alteration associated with the veins. One vein examined in detail appears to be emplaced in a zone of extensional fracturing along the pose of an emplaced in a zone of extensional fracturing along the nose of an anticline.

A picked sample of vein material from an adit dump analysed 0.71 per cent copper, 0.54 per cent lead, 315 grams per tonne silver and 0.95 gram per tonne gold (Assessment Report 18053).

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

PAGE:

1137

**BIBLIOGRAPHY** 

EMPR ASS RPT 9745, 10954, 11908, 12482, \*16459, \*18053 EMPR PF (82N General File - Prospector's map, 1937) GSC MAP 4-1961; 43-1962 GSC OF 481 GSC P 62-32 GCNL #171(Sept.6),#177(Sept.14),#178(Sept.15),#184(Sept.22), #191(Oct.3),#198(Oct.13), 1983

DATE CODED: 1985/07/24 DATE REVISED: 1993/08/31 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 087

NATIONAL MINERAL INVENTORY:

NAME(S): CASTLE MOUNTAIN, CASTLE

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N01W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

LATITUDE: 51 02 08 N

NORTHING: 5653929 EASTING: 539401

PAGE:

REPORT: RGEN0100

1138

LONGITUDE: 116 26 17 W ELEVATION: 2400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized area B, on Castle Mountain about 6 kilometres north of

the village of Harrogate (Assessment Report 11694).

COMMODITIES: Zinc Lead

MINERALS SIGNIFICANT: Hydrozincite Sphalerite Galena

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Massive Breccia Stratiform

CLASSIFICATION: Sedimentary Replacement

TYPE: E12 Mississippi Valley-type Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STR<u>ATIGRAPHIÇ AGE</u> **FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER Ordovician-Silurian Beaverfoot

LITHOLOGY: Dolomite

Dolomite Breccia Limestone Shale Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

CAPSULE GEOLOGY

The Castle Mountain property is located near the village of Harrogate in southeastern British Columbia.

The property is underlain by dolomite, limestone, shale and quartzite which range from Cambrian to Devonian age. A number of zinc-lead showings occur in dolomites of the Middle Ordovician to Silurian Beaverfoot Formation.

The general structure is that of a syncline with steeply dipping or overturned limbs, further complicated in the Castle Mountain area by the presence of several thrust and strike-slip faults.

Zinc-lead mineralization is entirely restricted to the Beaverfoot Formation, and appears to be preferentially concentrated in the upper half of the formation. Fractures resulting from dissolution and re-precipitation of dolomite are closely associated with lead-zinc mineralization. Zinc and lead occur as disseminated to locally massive hydrozincite, sphalerite and galena in dolomite breccias. Two main end member types of breccias are (1) angular dolomite clasts in a sparry dolomite matrix (associated with solution collapse structures and faults), and what has been termed "grapeshot rock"; and (2) stratabound dissolution zones up to several metres thick and laterally continuous for up to several hundred of metres along strike. Lead-zinc showings were noted in three main areas on the property.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*11694

EMPR PF (82N General File - Prospector's map, 1937)

GSC MAP 1477A GSC OF 481

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: GO DATE REVISED: 1993/08/09 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 088

NATIONAL MINERAL INVENTORY:

NAME(S): JACK, LENS MOUNTAIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 082N14E BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

PAGE:

REPORT: RGEN0100

1139

LATITUDE: 51 54 14 N LONGITUDE: 117 07 36 W ELEVATION: 2804 Metres

NORTHING: 5750356 EASTING: 491286

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of diatreme outcrop on a narrow ridge trending northwest between two permanent snowfields, situated between Lyell Creek and the British Columbia-Alberta border, about 70 kilometres north of

Golden (Assessment Report 13597).

COMMODITIES: Diamond Gemstones

**MINERALS** 

SIGNIFICANT: Diamond

ASSOCIATED: Carbonate Calcite Quartz Pyrite Apatite

Sphene Garnet Ilmenite

COMMENTS: Garnet, ilmenite and chromite have been identified from treatment of

bulk samples (Assessment Report 13597).

MINERALIZATION AGE: Paleozoic

DEPOSIT

CHARACTER: Breccia Pipe CLASSIFICATION: Diatreme Industrial Min.

TYPE: N02 Kimberlite-hosted diamonds

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Middle Ordovician **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Skoki Lower Ordovician Undefined Group Outram

Paleozoic Unnamed/Unknown Informal

LITHOLOGY: Breccia

**Tuff Breccia** Lapilli Tuff Breccia Limestone **Dolomite** Shale

HOSTROCK COMMENTS: Also the Lower Ordovician Survey Peak Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

Alkaline diatremes and dikes of probable Paleozoic age occur in three areas of southeastern British Columbia. The Ospika River diatreme in the north, the central Golden cluster and the Cranbrook-Bull River group in the south. The cluster of diatremes and associated crosscutting dikes northeast of Golden is situated within a Cambro-Ordovician stratigraphic and structural unit and may be coeval. There are five diatremes in the Golden cluster and are named: Bush River (Larry), Lens Mountain (Jack, 082N 088), Mons Creek (Mike), Valenciennes River (Mark, 082N 089) and HP (Exploration in

British Columbia 1988, page B39).
Sedimentary rocks in the Jack or Lens Mountain occurrence area consist of an upper dolomite sequence, a middle limestone and shale sequence, and a lower massive limestone unit. These may correlat with the lower part of the Middle Ordovician Skoki Formation, the These may correlate Lower Ordovician Outram Formation and the uppermost part of the Lower Ordovician Survey Peak Formation. All of these units are characterized by a well defined, moderately to steeply southwest dipping (60 to 80 degrees), northwest striking axial plane (?) cleavage that is essentially parallel to the axis of a nearby anticline.

The Jack multiphase diatreme underlies a narrow ridge trending northwest between two permanent snowfields. From edge to edge, there is a variation in texture and clast size and clast/matrix ratio. the southeast, the diatreme is foliated with an orange weathered surface and light green fresh surface; it contains 25 per cent

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

sedimentary rock inclusions ranging in size from 0.2 to 2.0 centimetres consisting of limestone clasts and sand grains. In the saddle of the ridge, the rock is light green and aphanitic with disseminated pyrite and an absence of foreign clasts. To the northwest are alternating outcrops of limestone 30 to 40 metres across, and coarse diatreme material containing 20 per cent subangular limestone clasts averaging 5 to 10 centimetres across. The northern diatreme phases weather dark red with a dark grey fresh surface. The diatremes are breccias, tuff breccias and lapilli tuff breccias.

In thin section, the "sand-grain rich" phase consists of 25 per cent rounded quartz grains, 20 per cent fine-grained carbonate clasts, 5 per cent elongated relict lapilli and 3 per cent subhedral to anhedral, altered grains replaced by calcite and rimmed by very fine grained sphene and opaque minerals. The matrix is fine-grained carbonate.

Thin sections from the saddle contain up to 10 per cent disseminated pyrite, and lapilli rimmed with pyrite. Apatite phenocrysts are altered in the core. The matrix consists of fine-grained carbonate and opaque minerals.

The coarse breccia phase consists of subangular clasts of limestone and relict phenocrysts in a carbonate matrix. This porphyritic rock contains 15 per cent phenocrysts now entirely pseudomorphed by fine-grained quartz and/or calcite. Altered crystals possibly of titanamphibole or annealed recrystallized sphenes have been replaced by calcite but retain a rim and inclusions of very fine grained sphene. The groundmass is extremely fine grained grey material with calcite patches.

In 1983, treatment of seven bulk samples from an upper breccia

In 1983, treatment of seven bulk samples from an upper breccia portion of the diatreme produced pyrope garnets, ilmenites and chromites. More significantly, one 29.5-kilogram bulk sample of "sandy marl" (possibly the sand-grain rich phase mentioned previously) from the diatreme breccia produced an excellent quality octahedral microdiamond weighing 0.00037320 carats (Assessment Report 13597). Further sampling and analysis and diamond drilling in 1985 and 1986 failed to confirm the presence of macro or microdiamonds (Assessment Reports 15289 and 16195).

Petrographic examination does not support the designation of these rocks as either kimberlites or lamproites, two rock types which are mined for diamonds (Exploration in British Columbia 1988, page

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IPDM Feb./Mar. p.3, 1985
N MINER Feb.14, 1985; Nov.10, 1986
V STOCKWATCH Nov.28, 1986
WWW http://www.infomine.com/

DATE CODED: 1985/12/09 CODED BY: AFW FIELD CHECK: N DATE REVISED: 1993/09/02 REVISED BY: GO FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 089

NATIONAL MINERAL INVENTORY:

NAME(S): MARK, VALENCIENNES RIVER

STATUS: Prospect REGIONS: British Columbia NTS MAP: 082N15W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Golden

LATITUDE: 51 46 48 N NORTHING: 5736570 **EASTING: 501648** 

PAGE:

REPORT: RGEN0100

1141

LONGITUDE: 116 58 34 W ELEVATION: 2316 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample site from where a microdiamond fragment was identified, 750 metres west of the British Columbia-Alberta border and 1 kilometre east of Valenciennes River, about 56 kilometres north of Golden

(Assessment Report 13596).

COMMODITIES: Diamond Corundum Gemstones

**MINERALS** 

SIGNIFICANT: Diamond Corundum

ASSOCIATED: Spinel Olivine Calcite Serpentine Quartz

Pyrite P Ilmenite Chromite

COMMENTS: Ilmenite, chromite and garnet have been identified from sampling (Assessment Report 20580).

MINERALIZATION AGE: Paleozoic

DEPOSIT

CHARACTER: Breccia Pipe CLASSIFICATION: Diatreme Industrial Min.

TYPE: N02 Kimberlite-hosted diamonds

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Middle Ordovician **Undefined Group** 

Lower Ordovician Undefined Group Paleozoic

Skoki Outram

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Tuff Breccia Crystal Lithic Ash Tuff Lithic Ash Lapilli Tuff Ash Lapilli Tuff Dike Breccia Dike Carbonate Limestone Dolomite

HOSTROCK COMMENTS: Also the Lower Ordovician Survey Peak Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

Shale

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

### CAPSULE GEOLOGY

Alkaline diatremes and dikes of probable Paleozoic age occur in three areas of southeastern British Columbia. The Ospika River diatreme in the north, the central Golden cluster and the Cranbrook-Bull River group in the south. The cluster of diatremes and associated crosscutting dikes northeast of Golden is situated within a Cambro-Ordovician stratigraphic and structural unit and may be coeval. There are five diatremes in the Golden cluster and are named: Bush River (Larry), Lens Mountain (Jack, 082N 088), Mons Creek (Mike), Valenciennes River (Mark, 082N 089) and HP (Exploration in British Columbia 1988, page B39).

Sedimentary rocks in the Mark or Valenciennes River occurrence

area consist of an upper dolomite sequence, a middle limestone and shale sequence, and a lower massive limestone unit. These may correlate with the lower part of the Middle Ordovician Skoki Formation, the Lower Ordovician Outram Formation and the uppermost part of the Lower Ordovician Survey Peak Formation. All of these units are characterized by a well defined, moderately to steeply southwest dipping (60 to 80 degrees), northwest striking axial plane (?) cleavage that is essentially parallel to the axis of a nearby anticline (Assessment Report 20580).

Four diatremes and a series of subparallel crosscutting dikes

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

comprise the Mark occurrence. Breccia dikes crop out at the northern end of the area. The diatremes and dikes intrude subhorizontal carbonate country rocks which are strongly foliated, as are the diatremes. The diatremes are identified as tuff breccia, crystal-lithic ash-lapilli tuff and lithic ash-lapilli tuff (Assessment Report 20580).

The two southern diatremes are foliated at the margins and massive in the core. The rock is rusty weathered with a pale green fresh surface. Angular fragments of carbonates, shales and a few quartzites comprise 30 per cent of the rock volume. Altered spinel peridotite xenoliths occupy 1 to 3 per cent of the rock volume. Their modal size is 2 centimetres, though 15-centimetre clasts are present. Altered brown olivines and dark green spinels each make up about 2 per cent of the rock.

The two northern diatremes are narrow and smaller, and do not exhibit the variety of clast types that characterize the larger southern ones. They are well foliated with angular clasts comprising 20 per cent of the rock volume. Dark green spinels are sparsely distributed.

Thin sections show the diatreme phase is tuffaceous with rounded and fractured quartz grains, autolithic fragments and sedimentary fragments. Locally it contains 40 per cent polymorphous inclusions ranging in size from 0.1 to 60 millimetres consisting of serpentine, serpentine and calcite, or calcite and quartz. Fractured red-brown spinels, round or angular, are present in trace amounts in the groundmass and within the polymorphous inclusions. The groundmass is composed of a dusty carbonate, spinels and pyrite (Exploration in British Columbia 1988 page 843)

British Columbia 1988, page B43).

A dozen dikes, 1 to 2 metres wide, outcrop in the area. They are generally subparallel, though locally crosscutting and they cut the diatremes. The dikes are also subparallel to foliation in the hostrocks. The dikes differ from the diatremes as they contain very few foreign fragments and are cut by quartz and calcite veins. The dikes are porphyritic in hand sample with characteristic sievetextured brown olivine pseudomorphs, altered euhedral clinopyroxenes, fine-grained micas and rare spinels.

In 1983, a 30-kilogram portion of a 160-kilogram bulk sample of a diatreme produced one ilmenite and thirteen chromites and one 0.00015820-carat microdiamond fragment (Assessment Report 13596, page 12). Further examination, sampling, processing and analysis in 1986, 1988 and 1990 has identified ilmenite, chromite and garnet but failed to reveal or substantiate the presence of macro or microdiamonds (Assessment Reports 15151, 17753 and 20580). However, scanning electron microscope (SEM) studies identified corundum - several blue sapphires were present in the fused concentrates of three samples of diatreme material (Assessment Report 20580, page 11).

Petrographic examination does not support the designation of

Petrographic examination does not support the designation of these rocks as either kimberlites or lamproites, two rock types which are mined for diamonds (Exploration in British Columbia 1988, page B39).

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DATE CODED: 1985/12/09 CODED BY: AFW DATE REVISED: 1993/09/02 REVISED BY: GO

MINFILE NUMBER: 082N 089

FIELD CHECK: N FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 090

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5710996 EASTING: 507781

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1143

NAME(S): MOUNT MATHER CREEK, MATHER CREEK, HOPE, MT. LAUSSEDAT, MT. MATHER, MATHER MOUNTAIN

STATUS: Prospect

REGIONS: British Columbia NTS MAP: 082N10W

BC MAP:

LATITUDE: 51 33 00 N LONGITUDE: 116 53 16 W

ELEVATION: Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located at Mather Mountain, on the Blaeberry River north of Golden.

COMMODITIES: Sodalite Lead Zinc

**MINERALS** 

SIGNIFICANT: Sodalite Galena Sphalerite

ASSOCIATED: Albite Calcite Pyrite Magnetite

ALTERATION: Limonite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Devonian

**DEPOSIT** 

CHARACTER: Vein Breccia Disseminated Stockwork

CLASSIFICATION: Industrial Min.

TYPE: R INDUSTRIAL ROCKS Q GEMS AND SEMI-PRECIOUS STONES (diamonds und DIMENSION: 80 x 10 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Dimensions of the syenite/carbonate breccia body.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION Unnamed/Unknown Formation Unknown Informal

LITHOLOGY: Limestone

Syenite Breccia Dike

GEOLOGICAL SETTING

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Mount Mather Creek sodalite prospect is located 30 kilometres north of Golden. The property is delineated by the Hope group of four claims.

The site can be accessed via the Blaeberry River Forestry Road thence following a trail north at kilometre 39 1/2. Sodalite outcrops in a steep, narrow cayon cut by a small Blaeberry River trubutary called Mount Mather Creek.

The property owner discovered this sodalite occurrence in 1957. At that time, there was already an old, short adit blasted into the main sodalite syenite breccia body. In the summer of 1996, the current owner, Dave Lefurgey, started to develop the site and mined about 3 tonnes of low grade sodalite breccia from loose boulders to market the stone for lapidary and ornamental use.

market the stone for lapidary and ornamental use.

The Mount Mather Creek area is within a syncline of the western "shaly facies" of Middle and Upper Cambrian Chancellor Group carbonate rocks (Price, 1967). Although the broad regional structure is a syncline, the beds exhibit complicated folding at the property scale.

The lower units of the Chancellor Group, which host the sodalite showing, are massive, well-bedded, fine-grained carbonates. One main breccia dike of sodalite syenite with two tributary dikelets cut the carbonate host rock across bedding planes. The syenite dikes weather brown due to the presence of pyrite and the host limestone exhibits a yellow to buff weathering alteration halo in contrast to its otherwise grey weathered surface. The yellow weathering is often more extensive along some bedding planes. Freshly broken rocks, altered and unaltered, have the same dark grey colour and can not be distinguished macroscopically from each other.

The absence of syenite on the eastern side of the valley, an abrupt end of the dike in the Mount Mather Creek bed and a distinct bedding pattern on each side of the canyon makes the authors suspect

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

that a fault with substantial displacement exists under the creek bed.

Sodalite is a major component of the syenite/carbonate breccia body. It is up to 10 metres wide and outcrops over a distance of approximately 80 metres in a vertical rocky cliff on the western side of the creek. It is also present as a minor component in the two thin independent dikes as fine-grained disseminations where albite is the dominant mineral. While the main breccia outcrop is practically inaccessible, large boulders that have fallen off the cliff and accumulated along, and within, the creek channel provided material for thin sections and are the source of most macroscopic observations.

The main body is part breccia and part stockwork. The host rock consists of fine-grained, bedded carbonate made of very fine-grained and possibly very small amounts of feldspar (0-50 per cent) and possibly very small amounts of quartz. Bed thickness varies from about 1 to 10 millimetres and in thin section is poorly defined. It is characterized by slight average grain size differences and is sometimes accented by iron staining either along bedding planes or throughout individual beds. Breccia clasts, from 1 to 10 centimetres long and 1 to 4 centimetres in diameter, are comprised of the same rock. The fragments exhibit features usually observed in plastic flow regimes, such as boudinage, rounded shapes and preferential orientation of clasts.

Sodalite syenite occurs as veins, breccia matrix and disseminations in the host rock.

The veins consist of coarse, blocky albite crystals up to 2 millimetres in width with calcite as a secondary vein filling. Calcite often forms secondary veinlets that branch from a central, albite rich "trunk" vein. The calcite grains typically grow perpendicular to vein walls and are up to 1 millimetre long.

The breccia matrix comprises a highly variable mix of albite,

The breccia matrix comprises a highly variable mix of albite calcite, sodalite and scattered grains of pyrite, galena and magnetite. The albite and calcite grains are often 1 to 2 millimetres across and the calcite grains often have well formed twins

Sodalite is ubiquitous in most of the syenite. It varies from coarse grain aggregrates in breccia matrix to fine disseminations that give a blue hue to both thin sections and rock fragments. Coarse sodalite appears restricted to veinlets and pockets within the breccia matrix. It forms anhedral to subhedral grains and grain aggregates that make up 5 to 15 per cent of the syenite. Occasionally, sodalite forms aggregates up to several centimetres in size. It can also impregnate large host rock blocks along the bedding planes. As disseminated grains, sodalite is characterized by small euhedral grains 0.25 to 0.50 millimetres in size that make up to 10 per cent of the rock.

Pyrite is a common accessory in many samples. It occurs as disseminated crystals up to 2 millimetres in size. A few samples contained galena grains up to 1 millimetre in diameter that, seen under the microscope, were corroded and rimmed by euhedral pyrite. Magnetite occurs as small, approximately 1/4 millimetre in diameter, disseminated euhedral grains. While not mineralogically confirmed, the syenite probably also contains sphalerite. Some old assays provided to the authors by Mr. Lefurgey indicate similar values of zinc and lead.

Sodalite is known at several localities in British Columbia. The Ketchika River area, Wicheeda Lake, Bearpaw Ridge, Paradise Lake, Trident Mountain and Moose Creek on the south edge of the Ice River Complex all have sodalite as a common accessory (Pell, 1994). In none of these sites has it been found in a similar quantity as at Mount Mather Creek.

Currie (Geological Survey of Canada Memoir 239) mentioned, without any site description, Mt. Laussedat as a sodalite locality. It is our opinion, that because of the circumstances of the initial discovery, the Mount Mather Creek is the same occurrence (D. Lefurgey, personal communication, 1996)

Lefurgey, personal communication, 1996).

One characteristic phenomenon common to a number of alkaline intrusions in the Rocky Mountains is their yellow to brown weathering halo. It is a striking feature of the Aley carbonatite and Rock Canyon Creek Rare Earth element showings, particularly because these two localities ae not covered by vegetation. It is also a feature of the Mount Mather Creek sodalite occurrence. Such a colour anomaly is a very clear feature on low level colour air-photos and can be used as a prospecting tool for finding yet unknown alkaline intrusives. While, because of its location, the Mount Mather Creek site cannot be recognized on air-photos, large, unprospected brownish zones to the northwest and east of the sodalite showing are clearly visible.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

Several thousand pounds of low-grade sodalite rock was produced in 1996.

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DATE CODED: 1996/11/25 DATE REVISED: 1996/12/09 CODED BY: DH REVISED BY: ZDH FIELD CHECK: Y FIELD CHECK: Y

MINFILE NUMBER: 082N 090

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 0820 001

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5658720

**EASTING: 577743** 

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1146

NAME(S): GOLD DOLLAR, GOLD DOLLAR (NORTH), GOLD DOLLAR (SOUTH)

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082004W BC MAP: LATITUDE: 51 04 29 N

LONGITUDE: 115 53 25 W ELEVATION: 2316 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The talc bodies are situated on a spur about 1 kilometre south of

Talc Lake, near the British Columbia-Alberta border, in Kootenay National Park, approximately 80 kilometres east of Golden and 20 kilometres west-southwest of Banff, Alberta (Fieldwork 1992, page

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc

ASSOCIATED: Pyrite Carbon Chlorite COMMENTS: Carbonaceous lenses and patches.

ALTERATION: Talc ALTERATION TYPE: Talc MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Replacement TYPE: E08 Carbo Industrial Min.

Carbonate-hosted talc

SHAPE: Tabular

MODIFIER: Sheared

DIMENSION: 3 Metres STRIKE/DIP: TREND/PLUNGE:

**FORMATION** 

COMMENTS: Gold Dollar (North) talc body.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Middle Cambrian **Undefined Group** Naiset Middle Cambrian Undefined Group Cathedral

LITHOLOGY: Dolomite

Carbonaceous Dolomite Araillite

Quartz Arenite Argillaceous Dolomite Dolomitic Araillite

Carbonaceous Argillaceous Dolomite

Talc

TERRANE: Ancestral North America

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

**CAPSULE GEOLOGY** 

The Gold Dollar talc deposits lie near the British Columbia-Alberta border, in Kootenay National Park, and are situated on a spur 1 kilometre south of Talc Lake. Access to the deposit is 20 kilometres west of Banff, Alberta, where a secondary road leads off Highway 1 following Redearth Creek; from the mouth of Pharoah Creek a trail heads south into Redearth Pass and Talc Lake.

A series of talc bodies are exposed 300 to 1000 metres to the southeast of Talc Lake (Red Mountain, 0820 002 and Gold Dollar respectively), and also 1 kilometre northwest of Talc Lake (Saddle, 0820 003). They may represent erosional remnants of a once continuous and extensive zone. The bodies are in the hangingwall and close to and southwest of the northwest trending informally named Haiduk normal fault (Fieldwork 1992, page 365). The fault cuts through saddles along the spurs, two of which mark the contact between the Lower Cambrian Gog Group and Takakkaw tongue (slope facies of the Middle Cambrian Cathedral Formation). The talc bodies are just southeast and north of the northeast corner of an embayment in the Cathedral escarpment. There is a facies change at the Cathedral escarpment between the platformal Cathedral and Mount Whyte formations in the east, to the basinal Takakkaw tongue and Middle

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Cambrian Naiset Formation to the west. The Red Mountain and Gold Dollar occurrences are at the base of the Takakkaw tongue (or Naiset Formation), whereas the Saddle occurrences are at the base of the Cathedral Formation.

At the Gold Dollar (North) occurrence, black talc is poorly exposed in several sloughed handcuts on the north side of the spur, 300 metres southeast of the Red Mountain occurrence. The talc body is at the top of an extensive talus apron below a cliff. Fifty metres east of the talc, the Haiduk fault is inferred to cut through the broad saddle between quartz arenites of the Gog Group to the east, and cliff-forming dolomites of the Takakkaw tongue to the west. This near-black, very rubbly weathering talc is at least 3 metres thick. The talc is weakly to strongly sheared and cut by a well developed slaty cleavage. It is very fine grained and moderately to very soft. A thin section reveals relic polygonal grains outlined by carbonaceous material, suggesting a protolith of brecciated carbonaceous dolomite. Analysis (XRF) indicates that the black colour of the talc probably results from extremely fine-grained chlorite as well as a carbonaceous mineral (Fieldwork 1992, pages 369, 370).

The talc grades upward into several metres of black argillite cut by a few per cent white talc veinlets. The argillite grades upward to a few metres of dolomitic argillite with intervals of black argillite and dolomite, into slaty argillaceous dolomite with 0.5 per cent fine to medium grained disseminated pyrite. All are thin to very thin bedded and laminated.

The Gold Dollar (South) occurrence is the second largest body of talc in the Talc Lake area and is exposed in a bluff that is 30 metres wide and 100 metres south and on the opposite side of the spur from the Gold Dollar (North) occurrence. A cut was made several metres into the talc at the base of the bluff. The contacts of the talc body are covered. The sheared body appears to occupy the hangingwall of the Haiduk fault and occurs between the top of the Gog Group to the east, and the Takakkaw tongue to the west. The talc weathers rusty orangish brown and has a very irregular, roughweathered surface.

weathered surface.

The eastern 7 metres of the talc body is medium to light grey with streaks and lenses of black on fresh surfaces. Partly talc-altered, very thin bedded and laminated dolomite interbedded with carbonaceous(?) argillaceous dolomite is locally apparent. The central 19 metres of talc is light grey and white with variable proportions of medium to dark grey and few per cent near-black carbonaceous lenses and patches. The interval is variably pyritic. The pyrite is very fine to medium grained and tends to cluster in irregular patches. The western 5 metres of talc is carbonaceous and near black with a few per cent white spots and a few, thin, sheared lenses of white talc.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/08/10 REVISED BY: GO FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

STRIKE/DIP:

MINFILE NUMBER: 0820 002

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5659088

EASTING: 577542

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1148

NAME(S): RED MOUNTAIN, NATIONAL TALC

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 082004W BC MAP:

LATITUDE: 51 04 41 N LONGITUDE: 115 53 35 W ELEVATION: 2316 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The talc deposit is situated on the north side of an easterly spur

about 300 metres south of Talc Lake, near the British Columbia-Alberta border, in Kootenay National Park, approximately 80 kilometres east of Golden and 20 kilometres west-southwest of Banff,

Alberta (Fieldwork 1992, page 365).

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc

ASSOCIATED: Pyrite Carbon Chlorite ALTERATION: Talc
ALTERATION TYPE: Talc
MINERALIZATION AGE: Unknown Oxidation

DEPOSIT

CHARACTER: Massive Stratabound CLASSIFICATION: Replacement Industrial Min.

Carbonate-hosted talc

TYPE: E08 Carbo
SHAPE: Tabular
MODIFIER: Sheared
DIMENSION: 260 x 30
COMMENTS: Talc deposit.

Metres

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Cambrian Undefined Group Naiset Middle Cambrian Undefined Group Cathedral

LITHOLOGY: Dolomite

Araillaceous Dolomite

Dolomitic Carbonaceous Argillite

Quartz Arenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Continental Ranges TERRANE: Ancestral North America

**CAPSULE GEOLOGY** 

The Red Mountain talc deposit is near the British Columbia-Alberta border, in Kootenay National Park, and is situated on the north side of an easterly spur about 300 metres south of Talc Lake. Access to the deposit is 20 kilometres west of Banff, Alberta, where a secondary road leads off Highway 1 following Redearth Creek; from the mouth of Pharoah Creek a trail heads south into Redearth Pass and

Talc Lake.

A series of talc bodies are exposed 300 to 1000 metres to the southeast of Talc Lake (Red Mountain and Gold Dollar, 0820 001  $\,$ respectively), and also 1 kilometre northwest of Talc Lake (Saddle, 0820 003). They may represent erosional remnants of a once continuous and extensive zone. The bodies are in the hangingwall and close to and southwest of the northwest trending informally named Haiduk normal fault (Fieldwork 1992, page 365). The fault cuts Haiduk normal fault (Fieldwork 1992, page 365). through saddles along the spurs, two of which mark the contact between the Lower Cambrian Gog Group and Takakkaw tongue (slope facies of the Middle Cambrian Cathedral Formation). The talc bodies are just southeast and north of the northeast corner of an embayment in the Cathedral escarpment. There is a facies change at the Cathedral escarpment between the platformal Cathedral and Mount Whyte formations in the east, to the basinal Takakkaw tongue and Middle Cambrian Naiset Formation to the west. The Red Mountain and Gold Dollar occurrences are at the base of the Takakkaw tongue (or Naiset Formation), whereas the Saddle occurrences are at the base of the Cathedral Formation.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The talc deposit at Red Mountain is exposed along steep, mostly inaccessible bluffs above an extensive talus slope and below a cliff of the Takakkaw tongue and younger rocks. The cliff exposing the Cathedral escarpment is 550 metres to the north. In 1927, ten years after the occurrence was first staked, two short (10 and 15 metres) adits, 50 metres apart, were driven southerly into it by the National Talc Company. In 1930, Western Talc Holdings drilled five holes totalling 152 metres into the talc. In 1944, Wartime Metals Corporation developed a stope and raise at the end of the western adit

The Red Mountain talc occurrence has a length of 260 metres and height of up to 30 metres. The gently southwest-dipping body appears stratabound and formed as replacement of dolomite in interbedded and intergradational thin-bedded dolomite, argillaceous dolomite and dolomitic carbonaceous argillites. In general, it is just above the lowermost occurrence of dolomite and is above the unconformity at the top of the Gog Group quartz arenites. The extreme eastern end of the talc body appears to be offset with a minimum dip-slip displacement of 10 metres along the Haiduk fault. The talc is also strongly deformed by steep to gently dipping shears and intersecting sets of non-pervasive subparallel fractures commonly spaced 0.5 to 15 centimetres apart.

The talc body weathers a dark rusty brownish orange resulting from oxidized pyrite shears and fractures. Most of the talc is dark grey to near-black on fresh surfaces, with 2 to 10 per cent dirty white and up to 50 per cent very light grey patches, lenses, spots and specks. Thin sections and x-ray diffraction analyses indicate the near-black colour results from a carbon compound and a few per cent chlorite (Fieldwork 1992, page 366). A distinct 18-metre interval of light grey talc with dirty white patches and lenses forms the hangingwall of the Haiduk fault.

interval of light grey talc with dirty white patches and lenses forms the hangingwall of the Haiduk fault.

Pyrite is very irregularly disseminated in the lighter coloured talc, commonly forming 0.5 to 1 per cent, to locally 3 per cent.

Thin sections indicate that the black talc does not contain pyrite.

The talc is generally moderately to strongly fractured and sheared. Intersecting fractures and fracture cleavages commonly

result in a brecciated texture.

#### BIBLIOGRAPHY

EMPR AR 1928-C275 EMPR FIELDWORK \*1992, pp. 361-379 GSC MAP 1457A GSC OF 481

DATE CODED: 1993/08/10 CODED BY: GO FIELD CHECK: Y
DATE REVISED: 1993/08/11 REVISED BY: GO FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 0820 003

NATIONAL MINERAL INVENTORY:

NAME(S): SADDLE SADDLE (EAST), SADDLE (WEST)

STATUS: Showing REGIONS: British Columbia NTS MAP: 082004W BC MAP:

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

LATITUDE: LONGITUDE: 115 54 17 W ELEVATION: 2362 Metres

NORTHING: 5660373 EASTING: 576706

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

1150

LOCATION ACCURACY: Within 500M

COMMENTS: Two small exposures of talc are located 1.4 kilometres northwest of the Red Mountain occurrence (0820 002) and are on the west and east sides of a ridge. One exposure (the west) is in Alberta while the second is 230 metres east, in British Columbia. They are 1 kilometre northwest of Talc Lake, on the British Columbia-Alberta border, in Kootenay National Park, about 80 kilometres east of Golden and 20 kilometres west-southwest of Banff, Alberta (Fieldwork 1992, page

COMMODITIES: Talc

**MINERALS** 

SIGNIFICANT: Talc

ASSOCIATED: Quartz Pyrite

ALTERATION: Talc ALTERATION TYPE: Talc MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Replacement Industrial Min.

TYPE: E08 Carbonate-hosted talc

**HOST ROCK** 

Lower Cambrian

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Undefined Group Middle Cambrian

Cathedral **Undefined Formation** Gog

LITHOLOGY: Dolomite Quartz Arenite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

#### CAPSULE GEOLOGY

Two small exposures of white talc are located  $1.4\ \text{kilometres}$  northwest of the Red Mountain occurrence (0820 002). They are 230 metres apart and on the east and west sides of a steep ridge. west occurrence is in Alberta and the east occurrence is in British Columbia. The exposures are just above talus aprons, at a narrow break in slope between a lower cliff of rusty weathering quartz arenites of the Lower Cambrian Gog Group to the north, and a cliff of bedded dolomites of the Middle Cambrian Cathedral Formation to the They are 750 metres north of the Cathedral escarpment and 130 and 300 metres southwest, respectively, of the Haiduk fault that cuts through the prominent saddle between the Talc Lake and Mummy Lake basins. See Red Mountain (0820 002) for detailed regional geology.

**FORMATION** 

At the Saddle (East) occurrence, an interval of white talc  $2.5\,$  metres thick, is stratabound in thin-bedded dolomite of the basal Cathedral Formation, 2.5 metres above pyritic, possibly weakly talc-altered quartz arenite of the Gog Group.

The talc is sub-opaque, pale orangish white to limonitic and rusty orange on fresh surfaces, and contains very minor quartz and pyrite. Shear and fracture surfaces cutting the talc weather medium to dark, rusty orange-brown. Very strong fracturing yields a rough and rubbly weathering surface.

The Saddle (West) occurrence, 230 metres west of the Saddle (East) occurrence and in Alberta, comprises white talc that appears to be stratabound in a faulted interval, 7 metres wide and more than 20 metres long, between dolomite and argillite at the base of the Cathedral Formation. The talc resembles that of the east occurrence.

RUN DATE: 26-Jun-2003 RUN TIME: 08:48:46 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1993/08/12 DATE REVISED: 1993/08/12 CODED BY: GO REVISED BY: GO FIELD CHECK: Y FIELD CHECK: Y

MINFILE NUMBER: 0820 003

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083C 001

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5768713 **EASTING: 472677** 

REPORT: RGEN0100

1152

NAME(S): LARRY 1, LARRY 2

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083C03W BC MAP:

LATITUDE: 52 04 06 N LONGITUDE: 117 23 55 W ELEVATION: 2255 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: A complex of diatreme pipes and dykes, continuous over 1200 metres length and 120 metres width and intruding Lower Cambrian to Silurian sediments, is centered on the Larry 1 claim (Assessment Report

17752).

COMMODITIES: Diamond

**MINERALS** 

SIGNIFICANT: Diopside Chromite Garnet

COMMENTS: Diamond has not been found to date in the diatreme pipes and dykes on the Larry showing but has been found in two other diatreme pipes in a

belt along the British Columbia-Alberta border between 50 to 90 kilometres north of Golden (Open File 1987-17).

ASSOCIATED: Magnetite Garnet Forsterite Clinopyroxene **Phlogopite** 

Carbonate Quartz Spinel

COMMENTS: Cr-diopside, chromite and G5 almandine garnet are diamond indicator

minerals (Assessment Report 17752).

ALTERATION: Carbonate Quartz Silica
COMMENTS: Carbonate and quartz sand grains form the majority of the matrix in type 1 and chlorite > calcite > quartz >> trace apatite for type 2 diatreme breccia types (Open File 1987-17). Significant supergene alteration inhibits primary or matrix features (Ass. Rpt. 17752).

ALTERATION TYPE: Serpentin'zn Oxidation

MINERALIZATION AGE: Devonian-Mississipp.
ISOTOPIC AGE: 334+/-7 & 348+/-7Ma

DATING METHOD: Rubidium/Strontium

MATERIAL DATED: Phlogopite

**DEPOSIT** 

CHARACTER: Pipe CLASSIFICATION: Diatreme Breccia Industrial Min.

Lamproite-hosted diamonds

TYPE: N03 La SHAPE: Cylindrical MODIFIER: Fractured

DIMENSION: 1200 x 120 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: A system of diatreme pipes and dykes is continuous for at least 1200 metres in length and up to 120 metres wide on the Larry 1 claim (Assessment Report 17752).

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cambrian-Ordovician **Undefined Formation** McKav Ordovician-Silurian Undefined Group Beaverfoot

Devonian-Mississipp Unnamed/Unknown Informal

ISOTOPIC AGE: 334+/-7 & 348+/-7 Ma DATING METHOD: Rubidium/Strontium

MATERIAL DATED: Phlogopite

LITHOLOGY: Lamprophyre

Siltstone Shale Limestone Dolomite Ortho Quartzite **Brecciated Pipe** 

HOSTROCK COMMENTS: Diatremes are hosted in Upper Cambrian to Lower Ordovician McKay Group

through to Ordovician &/or Silurian Beaverfoot Formation (OF 1978-17).

**GEOLOGICAL SETTING** 

**CAPSULE GEOLOGY** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

The Larry showing is located 90 kilometres north-northwest of Golden, immediately west of the British Columbia-Alberta border. Access to the area is gained via the northern end of the Bush River

MINFILE NUMBER: 083C 001

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

logging road.

Numerous diatremes are located along the British Columbia-Alberta border between 50 to 90 kilometres north of Golden. Most of the diatremes are hosted in Upper Cambrian carbonate rocks and in most cases, comagnatic dykes are also present. Micro diamonds are reportedly recovered from heavy mineral separates taken from two breccia pipes in this swarm. Preliminary investigation of these rocks suggests that they are neither kimberlites nor lamproites (Open File 1987-17).

Three petrologically, geographically and temporally distinct suites of ultrabasic diatremes can be recognized in British Columbia. The first suite, examples of which are located in the area north of Golden, including the Larry showing, and in the Ospika area, is characterized by macrocryst-rich breccias and dykes. The macrocrysts consist of titaniferous augite, phlogopite, green diopside, spinel and olivine with either augite or phlogopite in most abundance. In some cases, microphenocrystic melilite is present in small amounts. These rocks are tentatively classified as ultramafic lamprophyres; those with melilite are alnoites; those without are aillikites (Open

Breccia pipes commonly contain multiple phases of intrusion characterized by variable proportions of xenoliths, macrocrysts, and accretionary or pelletal lapilli (Open File 1987-17).

Rubidium/strontium age dates of 334+/-7 and 348+/-7 Ma have been

Rubidium/strontium age dates of 334+/-7 and 348+/-7 Ma have been obtained from phlogopite separates from two of these pipes. They indicate emplacement in Devono-Mississippian time (Open File 1987-17).

At the Larry showing a diatreme dyke pipe swarm containing diamond indicator minerals intrudes gently folded Upper Cambrian to Lower Ordovician McKay Group and Upper Ordovician to Lower Silurian Beaverfoot Formation marine sediments. Lithologies include siltstone, shale, limestone and dolomite. These sediments have been intruded by a complex, north trending system of diatreme pipes and dykes continuous over at least 1200 metres length and up to 120 metres width on the Larry 1 claim. An additional diatreme breccia pipe, 300 metres long by 509 metres wide, is located on the Larry 2 claim (Assessment Report 17752).

Three diatremes were examined by J. Pell in 1986 revealing two breccia types. The first is a rusty weathering, clast-dominated megabreccia. The clast to matrix ratio is about 3 to 2. Over 99 per cent of the clasts are subrounded to subangular fragments of the hosting carbonate lithologies. The average size is 10 to 40 centimetres. Altered granitoids and less commonly, gabbroic rocks comprise the remainder of the xenolith population. The matrix is predominantly carbonate and quartz sand grains (Open File 1987-17).

predominantly carbonate and quartz sand grains (Open File 1987-17).

The second breccia type is a clast dominated breccia; also massive, but is rusty to dark green weathering. The clast to matrix ratio is greater than the first breccia type. Clast population is more varied with approximately 50 per cent of the clasts being subangular sedimentary rock fragments of carbonate, shale and orthoquartzites. Two to 5 per cent contain angular to rounded, granitic material 5 to 15 centimetres across. Rounded, 8 to 25 centimetre-sized clasts comprise 10 to 20 per cent of the xenoliths. These clasts consist of coarse, randomly oriented carbonate grains, chrome mica and opaque oxides. An additional 5 to 10 per cent of the clast population is made up of accretionary or pelletal lapilli fragments ranging from a few millimetres to 3 centimetres across. The matrix of the breccia consists of chlorite > calcite > quartz >> trace apatite. Silvery mica macrocrysts, up to 3 centimetres across, are abundant (Open File 1987-17).

Both homogeneous and zoned dykes are common thoughout the area. A total of four bulk samples of diatreme material have been collected from the showing and analyzed for diamonds and diamond indicator minerals. Microdiamonds were not found in the samples analyzed. The mineralogy of the diatremes was determined to be chromium diopside, chromite, G5 (eclogite and/or primitve mantle source) magnesium almandine garnet, magnetite, grossular garnet, forsterite and clinopyroxene. The presence of G5 garnets, in particular, is consistent with a diamond paragenesis. But the compositions of the other indicator minerals are known to occur in either diamondiferous or nondiamondiferous lamproite or nondiamondiferous kimberlite. G5 garnets are in some instances found as inclusions in diamond, therefore can form at the same pressure and temperature conditions as diamonds (Assessment Report 17752).

Microscopic examination of sample 36 from the Larry 1 claim concluded that the sample consisted of juvenile lapilli in which some areas appear to be welded. Xenoliths of probable country rock are also present. Numerous phenocrysts of phlogopite comprise the only discernible primary material (Assessment Report 17752).

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13659, \*17752 EMPR FIELDWORK 1986, pp. \*259-267; pp. 273-282 EMPR OF \*1987-17, pp. 67-70 GSC MAP 1339A

DATE CODED: 1991/12/05 DATE REVISED: 1991/12/05 CODED BY: KJM REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083C 001

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083C 002

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Golden

NORTHING: 5764178 EASTING: 462284

REPORT: RGEN0100

1155

NAME(S): PTC, PTC 1-8

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 083C04E 083D13E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 52 01 37 N LONGITUDE: 117 32 59 W ELEVATION: 1890 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Center of the PTC 5 to 8 claims with carbonate hosted lead-zinc-silver

and guartz vein-hosted copper (Assessment Report 21524).

COMMODITIES: Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Marcasite

ASSOCIATED: Carbonate Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n Hydrozincite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform Podiform Disseminated

CLASSIFICATION: Replacement Hvdrothermal **Epigenetic** TYPE: E14 Sedimentary exhalative Zn-Pb-Ag 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular DIMENSION: STRIKE/DIP: 310/60W TREND/PLUNGE:

COMMENTS: Axial plane of megascopic fold within which the showing strikes 310 degrees. Dip of Chetang and Beaverfoot formations at the showing is

60 degrees west (Assessment Report 21524).

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Cambrian **Undefined Group** Snake Indian Ordovician-Silurian Undefined Group Beaverfoot

LITHOLOGY: Dolomitic Carbonate

Limestone Dolomite Shale Siltstone

HOSTROCK COMMENTS: Beaverfoot Formation is of Upper Ordovician to Lower Silurian age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: TERRANE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1991 Assay/analysis

SAMPLE TYPE: Chip COMMODITY Silver **GRADE** 

3.0000 Grams per tonne Copper 0.0137 Per cent Lead 0.4426 Per cent Zinc 1.0000 Per cent

COMMENTS: One sample (P9-9) from a continuous 9 metre long by 0.5-metre wide chip from a hand trench. Zinc value is greater than 1 per cent.

REFERENCE: Assessment Report 21524.

CAPSULE GEOLOGY

The PTC showing is located  $85\ \mathrm{kilometres}$  north of Golden and is situated on the Prattle Creek drainage.

Helicopter reconnaissance in the Prattle Creek drainage in 1989 revealed a 400 by 100 metre gossanous hydrozincite showing in black shale. Follow-up ground prospecting revealed three gossanous hydrozincite outcrops in strongly silicified gossan; lead-zincsilver mineralization was discovered in dolomitic carbonate rocks to the east of the gossans. Further prospecting along strike to the regional folding revealed mineralization in dolomitic carbonates for 4.1 kilometres in scattered outcrop and float. This trend of

MINFILE NUMBER: 083C 002

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

mineralization is on strike with the local axial plane of a megascopic fold with a 400-metre wavelength.

The PTC showing lies in a deformed northeasterly tapering wedge of supracrustal rocks overlying the crystalline basement complex. A 60 kilometre wide belt surrounding the claims are comprised of Lower Cambrian to Devonian marine terrigenous sediments and carbonates.

The Chetang Formation (Snake Indian Formation) of the Middle Cambrian Chancellor Group to the Upper Ordovician Beaverfoot Formation carbonates and shales are overthrust by Upper Cambrian Lynx Group carbonates to the west. A 2-kilometre long, northwest belt of Upper Devonian Fairholme Group carbonates and shales occur to the east of the PTC showing. Folding in the area is complex, with folds isoclinally folded and plunging in northeast and southwest directions.

Lithologies underlying the showing are tightly folded limestone, dolomite and shales of the Middle Cambrian Chetang Formation, Chancellor Group and the Upper Ordovician to Lower Silurian Beaverfoot Formation, within a tightly folded recumbent syncline with a 400-metre wavelength. Individual beds dip 60 degrees to the west. The axial plane of this fold strikes 310 degrees and is parallel to the regional foliation.

Mineralization is confined to grey oolitic dolomitic limestone as fractures, blebs and closely spaced individual crystals.

Mineralization consists of carbonate hosted lead-zinc-silver and quartz vein hosted copper and minor zinc. Carbonate hosted lead-zinc-silver mineralization consists of reddish brown sphalerite, cubic crystalline galena, pyrite and marcasite. The dolomitic limestone host is silicified with closely spaced sphalerite grains, appearing to be connected, as reddish brown pods and blebs with minor disseminated galena.

One outcrop of mineralized dolomitic carbonate assayed 0.25 per cent zinc over one metre in grab samples (Assessment Report 21524). Numerous other outcrops display sweats of sphalerite, galena and pyrite of less than one metre width and variable grade (0.25 to 2.7 per cent lead plus zinc over 0.3 to 1.0 metre length) (Assessment Report 21524). A continuous chip sample over a total of 9.0 metres length was taken from a hand trench on the PTC 3 claim. Partial assay results of this continuous chip sample are as follows. Precious metal values are given in grams per tonne and base metals in per cent (Assessment Report 21524).

Sampling from a soil geochemical grid outlined an area 400 by 75 metres of greater than 0.010 per cent lead with three samples in the area greater than 0.020 per cent zinc (Assessment Report 21524).

### **BIBLIOGRAPHY**

EMPR ASS RPT 19814, \*21524 GSC P 91-A, pp. 163-169 BCPC Vol. 26, pp. 343-361 GAC Special Paper No. 6, 1970 EMPR OF 2000-22

DATE CODED: 1991/12/10 CODED BY: KJM FIELD CHECK: N
DATE REVISED: 1991/12/10 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083C 002

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 001

NATIONAL MINERAL INVENTORY: 083D1 Zn1

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5767308 EASTING: 415979

PAGE:

REPORT: RGEN0100

1157

NAME(S): BEND 1 CANYON ZONE, BEN 1-45, BEND, CANYON, BEND 1, MGM

STATUS: Developed Prospect

REGIONS: British Columbia NTS MAP: 083D01E

BC MAP:

LATITUDE: 52 03 00 N LONGITUDE: 118 13 31 W

ELEVATION: 762 Metres LOCATION ACCURACY: Within 500M

COMMENTS: One hundred metre exposure of massive sulphide is partially submerged by the flooding of McNaughton Lake (Fieldwork 1986, Assessment Report

16544).

COMMODITIES: Zinc

I ead

Silver

Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite

Galena Pyrite Séricite

Arsenopyrite

Chalcopyrite

Magnetite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n

Sericite

MINERALIZATION AGE: Proterozoic-Cambrian

ISOTOPIC AGE:

DATING METHOD: Lead/Lead

MATERIAL DATED: Galena

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Massive Exhalative Disseminated Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular

135/67S

TREND/PLUNGE:

DIMENSION: 400 x 200 x 7 Metres STRIKE/DIP: COMMENTS: Massive sulphide zone strikes SE and dips 65 to 70 degrees south. Regional folds plunge towards the north at 10 degrees. Lead isotope

age from galena is Hadrynian-Cambrian (Fieldwork 1986).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Middle Cambrian

GROUP Chancellor

**FORMATION** Tsar Creek

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Manganiferous Dolomite

Siliceous Dolomite Siliceous Quartzite

Quartzite

Garnet Muscovite Schist Garnet Biotite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland
TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

METAMORPHIC TYPE: Regional

COMMENTS: Biotite-sillimanite zone.

RELATIONSHIP: Post-mineralization

GRADE: Amphibolite

INVENTORY

ORE ZONE: TOTAL

REPORT ON: Y

CATEGORY: QUANTITY:

Indicated 5000000 Tonnes YEAR: 1985

**COMMODITY** 

7.0000 Grams per tonne

Silver Lead Zinc

0.6000 2.3000

**GRADE** 

Per cent Per cent

COMMENTS: Average grades based on a strike length of 250 metres, dip length

of greater than 200 metres and an average thickness of 7.3 metres. REFERENCE: Assessment Report 16544.

CAPSULE GEOLOGY

The Bend 1 Canyon Zone is located in the Cummins River canyon near the confluence of the Cummins River with the Columbia Reach on the east side of McNaughton Lake. The occurrence is a few kilometres from the now defunct Big Bend Highway and approximately 107.5

kilometres southeast of Valemount.

In 1949, mineralization was discovered during the construction

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

of the Big Bend Highway and subsequently staked. In 1966 Cominco restaked 45 unit claims comprising the Ben 1 to 45 claim group. The following year Cominco drilled 240 metres in 13 short holes. In 1971 Laura Mines conducted further drilling with a total of 490 metres drilled in 4 holes. Between 1971 and 1987 the Bend claim group was reduced to a 12 unit claim group covering the Canyon Zone.

The area is underlain by a sequence of quartzites, carbonates and pelites from the Hadrynian Miette Group through the Lower Cambrian Gog Group to the Middle Cambrian Chancellor Group. The Gog Group is subdivided into three formations. From oldest to youngest these are: the McNaughton Formation, 500 metres of basal quartzite; the Mural Formation, 100 metres of marble, sandy carbonate, and shale and the Mahto Formation, 10 to 200 metres of quartzite with minor pelite. The overlying Chancellor Group has two subdivisions; the Tsar Creek and Kinbasket formations. The Tsar Creek Formation consists of mainly pelite, up to 100 metres thick, with irregular lenses of sandy carbonate and quartzite up to 100 metres thick. The Kinbasket Formation consists of over 800 metres of sandy carbonate with lenses of grey marble, up to 200 metres thick.

Two phases of folding and metamorphism are recognized with

Two phases of folding and metamorphism are recognized with metamorphism reaching amphibolite grade (biotite to sillimanite zone) resulting in a Barrovian sequence of isograds related to the first and major phase of metamorphism. Metamorphic temperatures in the area were determined to have reached up to 480 degrees celcius at a pressure of approximately 5 kilobars.

The Porcupine Creek anticlinorium, a major regional structure trending northwest-southeast lies to the east of the prospect. The units strike southeast and dip steeply southwest. Thrusting is common in the area and to the west, the Purcell fault separates the Middle Cambrian Chancellor Group from Proterozoic Windermere Super Group rocks west of McNaughton Lake.

Stratiform mineralization of the Bend 1 Canyon Zone showing is exposed over approximately 100 metres in the canyon walls of Cummins Creek within the Tsar Creek Formation. Mineralization strikes southeast and dips 65 to 70 degrees south. Many layers in the Tsar Creek Formation are tightly folded with axial planes striking southeast and dipping steeply southwest. The main mineralized zone is 7 metres thick containing disseminated and massive sulphides. Exploration to date indicates a dip length in excess of 200 metres and a partically exposed strike length in excess of 400 metres Assessment Report 16544). In decreasing order of abundance these are pyrite, pyrrhotite, sphalerite and galena with lesser arsenopyrite, chalcopyrite and magnetite in a siliceous matrix. The main zone is overlain by 6 metres of chocolate weathering, manganiferous dolomite with disseminations of pyrite, sphalerite and galena. Quartz filled tension cracks are common. Mineralization is underlain by greater than 13 metres of intensely silicified, garnet-biotite and garnet-muscovite schist with minor pink quartzite. Quartz and sericite comprise this intense silicification.

The Bend prospect is a stratiform, synsedimentary, exhalative massive sulphide lense that was deposited within the unstable cratonic margin of Ancestral North America in the Hadrynian-Cambrian. Protoliths of the host rock include shale, chert, pelitic chert, and manganiferous carbonate units consistent with deposition in a starved basin. The metalliferous-rich sediments were probably deposited from dense, metal-rich brines derived from compaction of the sedimentary pile (Fieldwork 1986). Upon reaching the seafloor, brines denser than the sea water pooled in a major depression. Other chemical sediments, such as iron and manganese-rich metacherts above the Bend occurrence, are commonly associated with the end of sulphide deposition (Fieldwork 1986).

Exploration and drilling to date have defined indicated reserves of 5 million metric tonnes with an average grade of 7 grams per tonne silver, 0.6 per cent lead and 2.3 per cent zinc (Assessment Report 16544). The highest grades were obtained from the south and uppermost exposure at 750 metres (high flood level of McNaughton Lake) with 2.1 metres of 142 grams per tonne silver, 8.4 per cent lead and 2.0 per cent zinc (Assessment Report 16544). Some of the bands included at this location are 7 centimetres thick and returned assay values of 130 to 615 grams per tonne silver, 3.5 to 5.0 per cent lead and 0.1 to 15.0 per cent zinc (Assessment Report 16544).

### **BIBLIOGRAPHY**

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR OF 1998-10
EMPR OF 2000-22

CODED BY: GSB REVISED BY: KJM DATE CODED: 1985/07/24 DATE REVISED: 1991/12/06 FIELD CHECK: N

MINFILE NUMBER: 083D 001

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 002

NATIONAL MINERAL INVENTORY: 083D1 Zn2

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5768680

**EASTING: 413469** 

REPORT: RGEN0100

1160

NAME(S):  $\frac{\text{BEND NORTH ROAD ZONE}}{\text{MGM}}$ , BEND, BEND 17-26,

STATUS: Prospect MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 083D01W

BC MAP:

LATITUDE: LONGITUDE: 118 15 44 W ELEVATION: 1067 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop exposure of sulphides in manganiferous dolomite occur at the

upper zone of the "Road Zone" (Assessment Report 16544).

COMMODITIES: Zinc

Lead Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz ALTERATION: Silica

Galena Dolomite Pyrrhotite

Pyrite

Chlorite ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Proterozoic-Cambrian

ISOTOPIC AGE:

Chloritic

DATING METHOD: Lead/Lead

MATERIAL DATED: Galena

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary

Massive Exhalative Disseminated Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

SHAPE: Tabular DIMENSION: 300 x 150 x 2

Metres STRIKE/DIP: 135/67S COMMENTS: The upper zone of the Bend North Road Zone is 300 by 150 by 2 metres

in size. Mineralization strikes southeast and dips 65 to 70 south.

TREND/PLUNGE:

Lead isotope age from galena is Hadrynian-Cambrian (Fieldwork 1986).

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Middle Cambrian

HOST ROCK

<u>GROUP</u> Chancellor **FORMATION** Tsar Creek

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Manganiferous Dolomite

Quartzite Garnet Micaceous Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional

COMMENTS: Biotite-sillimanite zone.

RELATIONSHIP: Post-mineralization

GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1979

SAMPLE TYPE: Rock

**GRADE** 

**COMMODITY** Silver

27.0000

Grams per tonne Per cent

Lead

2.0000 Per cent

COMMENTS:

6.0000 Zinc Sample type and analytical technique are unknown. Sample is from

lower zone.

REFERENCE: Assessment Report 9994.

**CAPSULE GEOLOGY** 

The Bend North Road Zone is 2.85 kilometres northwest of the Bend 1 Canyon Zone prospect (083D 001). It is one of several stratiform exhalative massive sulphide showings occurring along a west-northwest-

trending zone, almost 330 metres long and approximately 60 metres wide. Valemount is 107.5 kilometres to the north-northwest.

A sequence of quartzites, carbonates and pelites from the Hadrynian Miette Group through the Lower Cambrian Gog Group through to the Middle Cambrian Chancellor Group comprises the rocks of the Southern Park Ranges in this area. For a more comprehensive description of the regional geology refer to the Bend 1 Canyon Zone

prospect (083D 001).

MINFILE NUMBER: 083D 002 RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 08:48:46 GEOLOGICAL SURVE

# MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

Stratiform mineralization at the Bend North Road Zone consists of a lower zone, and an upper zone on a west-facing dip slope (Assessment Report 9994). Both zones occur in the Tsar Creek Formation of the Middle Cambrian Chancellor Group. Many layers are tightly folded with axial planes striking southeast and dipping steeply southwest.

Fine grained sphalerite, galena pyrite and pyrrhotite, in manganiferous chocolate weathering dolomite, comprise mineralization at the upper zone. Massive chlorite is developed at the base and massive sulphide blebs are associated with silicification in tension cracks. Material sampled from this zone assayed 3 per cent zinc and 1 per cent lead (Assessment Report 9994). Surface exposure outlines a tabular body 300 by 150 by 2 metres. This mineralization may be correlative with that of the Bend 1 Canyon Zone.

The lower zone mineralization consists of disseminated sphalerite, galena, pyrite and pyrrhotite in silicified manganiferous dolomite, 6 metres thick. Sampled rock from this zone returned assay values of 6 per cent zinc, 2 per cent lead and 27 grams per tonne silver (Assessment Report 9994). Mineralization is overlain by a garnet-mica schist and underlain by a thin silicified quartzite.

In 1985, two holes were drilled immediately southwest of the Bend North Road Zone, totalling 211.85 metres. Drill hole MGM-1 encountered impure quartzite with occasional high silica intervals with secondary interstitial carbonate and infrequent thin chocolate brown dolomitic horizons. The hole was essentially barren except for trace amounts of galena in fracture fillings. A sample taken at 35.08 metres assayed 0.27 grams per tonne gold, 2.0 grams per tonne silver, 0.0158 per cent lead and 0.15 per cent zinc (Assessment Report 15251). Drill hole MGM-2 encountered predominantly garnetmuscovite pelite, increasing in coarseness and staurolite content with depth. Trace amounts of galena were noted in a white quartzite layer and within a dolomitic breccia (Assessment Report 15251).

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WWW http://www.infomine.com/
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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 003 NATIONAL MINERAL INVENTORY: 083D12 Au1

NAME(S): BLUE ICE (SE ZONE), BLUE ICE, BLUE LEAD, BLUE ICE (W ZONE), BLUE ICE (E ZONE), WELLS,

**GLACIER** 

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 083D12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 52 40 22 N LONGITUDE: 119 53 58 W ELEVATION: 2027 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein exposed over 183 metres (figure 1 and 3, Minister of

Mines Annual Report 1938).

COMMODITIES: Silver Gold 7inc Lead Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Galena Sphalerite Pyrite Siderite

COMMENTS: Dark siderite patches and blebs are common in mineralized quartz veins

(Minister of Mines Annual Report 1938). Sericite ALTERATION:

COMMENTS: Sericite was not reported in veins from this occurrence but was

reported from others in the immediate vicinity.

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork Shear Discordant

CLASSIFICATION: Hydrothermal **Epigenetic** Replacement

TYPE: EÓ3 Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular

DIMENSION: 230 x 137 x 4 STRIKE/DIP: 305/80N TREND/PLUNGE: Metres

COMMENTS: Mineralized, lenticular quartz bodies strike 305 degrees and dip 80 degrees northeast. The main vein is exposed over 230 metres length,

137 metres vertical depth and up to 3.6 metres width.

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE

Hadrynian Cariboo Isaac **Undefined Formation** Kaza

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Quartz Pebble Conglomerate Massive Quartzite

Quartz Vein

Phyllite Quartz Sericite Schist

Argillite Limestone Slate Grit **Psammite** 

HOSTROCK COMMENTS: Late Proterozoic (Hadrynian) strata were deposited at some time during

the interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp 302-313).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Cariboo Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist Amphibolite

COMMENTS: Located near contact between upper Kaza Group and Isaac Formation.

INVENTORY

MINFILE NUMBER: 083D 002

PAGE:

NORTHING: 5839816

EASTING: 303971

REPORT: RGEN0100

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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ORE ZONE: VEIN

REPORT ON: N

YEAR: 1929

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

GRADE

 COMMODITY
 GRAI

 Silver
 120.

 Gold
 2.0

120.0000 Grams per tonne 2.0600 Grams per tonne 1.2000 Per cent 3.4000 Per cent

Zinc 3.4000 Per cent COMMENTS: Chip sample taken from exposed quartz vein in open cuts over 22.8 metres.

REFERENCE: Minister of Mines Annual Report 1929.

Copper

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years on account of the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. Mineralization of the Blue Ice (SE Zone) prospect is located at the headwaters of Hobson (Fred Wells) Creek. At the time of original staking, this ground was not part Wells Gray Provincial Park. Presently it lies within the northeast corner of the park and exploration activity is prohibited.

Mineral occurrences at the head of Hobson Creek are found in

Mineral occurrences at the head of Hobson Creek are found in zones of fracturing, crosscutting host rocks at an oblique angle. Lenticular quartz bodies consisting of white quartz host pyrite, galena and chalcopyrite, sphalerite and arsenopyrite, at points where these bodies intersect cross fracturing striking 300 degrees. Quartz veins hosted in fractures are also mineralized. Most are narrow, irregular stockworks or sets of short quartz-filled cracks and tension gashes approximately perpendicular to bedding. Siderite is a common accessory in quartz veins. Mineralization locally extends into interbedded limestone bands, forming massive sulphide replacement.

The Blue Ice (SE Zone) prospect lies near the contact between the Hadrynian Upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The ground covering mineralization of the Blue Ice prospect is on the crest and northeast limb of a major anticline which plunges at a low angle to the northwest. The country rocks consist of quartz pebble conglomerate, massive quartzite, phyllite, quartz-sericite schist, argillite and limestone, of the Isaac Formation, which strike 305 degrees and dip 80 degrees to the northeast. Lithologies of the Hadrynian upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit.

The Blue Ice (SE Zone) prospect lies about 1.5 kilometres southeast of the Blue Ice (W Zone) showing (083D 025). Quartz veins, hosted in fractures, contain abundant pyrite and lesser chalcopyrite, galena and sphalerite. Dark siderite patches and blebs are common. The main vein is traceable over 230 metres along the surface over 137 metres vertical relief and is 1.5 to 3.6 metres wide. The majority of the vein is barren and the sulphides are concentrated toward the upper end. This vein-fracture system is hosted in a pebble conglomerate.

Assay results from several samples taken from mineralized quartz vein material in this area, with precious metals expressed in grams per tonne and base metals in per cent (Minister of Mines Annual Report 1929) are as follows:

SAMPLE	TYPE	LOCATION	AU	AG	CU	ZN
1	chip	over 22.8 metres of open cut	2.06	120.0	1.2	3.4
2	chip	SE end across 1.22 metres	5.49	157.7		
3	chip	NW end across 1.07 metres	1.37	267.4	2.1	

Two claims were staked on the showings in 1923 by Fred Wells but the claims subsequently lapsed. In 1929, the showings were restaked as the Blue Ice and Blue Lead groups and optioned to Joseph Errington. Open cutting on the southeast showing (SE zone), Blue Lead group, was reported. The option was given up in 1931. The property in 1933 comprised the Blue Ice Group of 27 claims owned by Albreda Holdings Company Limited. Apparently little work was done and the claims lapsed. The property was restaked in 1938 as the Blue Ice group (22 claims) by W.R. Johnson and associates. Anlgo-Huronian Limited optioned the property and in 1939 carried out limited drilling in two areas (apparently drilling 10 holes). This work indicated that the mineralized outcrop did not extend to depth and the option was abandoned. Silver Standard Mines Limited and Wilson Mining Corporation Limited acquired a 65/35 per cent interest, respectively, in the 4 claim property in about 1956.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

In 1988, better intersections of gold mineralization from drill core were obtained and assays were 51.4 grams per tonne gold across 4.57 metres, 24.0 grams per tonne gold over 1.52 metres and 7.2 grams per tonne gold over 2.13 metres (Consolidated Silver Standard Mines Limited Annual Report 1988).

In 1988 the Ministry of Environment and Ministry of Energy,

In 1988 the Ministry of Environment and Ministry of Energy, Mines and Petroleum Resources announced that exploration in Wells Gray Provincial Park would be prohibited.

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EMPR BULL 1, p. 69

EMPR PF (Annual Report of Consolidated Silver Standard Mines Limited, 1988)

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GSC OF 2324

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/06 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 003

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 004

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1165

NAME(S): **SUMMIT**, AZURE RIVER GROUP, SUMMIT FRACTION, SUMMIT 2-4, BUZZARD, RENFREW 1 FRACTION, RENFREW 2 FRACTION, OLDHAM OLDHAM 1-6,

OLDHAM 11-12, GRIZZLEY, HORNE

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D12W UTM ZONE: 11 (NAD 83) BC MAP:

LATITUDE: 52 38 12 N LONGITUDE: 119 50 37 W ELEVATION: 1653 Metres NORTHING: 5835650 **EASTING: 307587** 

LOCATION ACCURACY: Within 500M

COMMENTS: Location of the Horne tunnel adit on the Summit claim group (Minister

of Mines Annual Report 1929).

COMMODITIES: Gold 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Sphalerite Chalcopyrite Arsenopyrite

Pyrite

COMMENTS: Significant minerals listed do not occur in ALL veins included in this mineral occurrence.

ASSOCIATED: Quartz Siderite

COMMENTS: Siderite occurs in many veins as a common constituent (Minister of Mines Annual Report 1938).

ALTERATION: Sericite COMMENTS:

Sericite likely represents digested remnants of schist inclusions (Minister of Mines Annual Report 1938).

ALTERATION TYPE: Sericitic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Shear Discordant Stockwork

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: EÓ3 Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular DIMENSION: 76 x 6 Metres STRIKE/DIP: 040/ TREND/PLUNGE:

COMMENTS: Largest of three quartz veins, approximately 300 metres northwest of the Horne tunnel, is 76 metres long by 6 metres wide and strikes north

40 degrees east (Minister of Mines Annual Report 1929).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hadrynian <u>GROUP</u> Kaza IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Formation

Hadrynian Cariboo Isaac

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Quartz Sericite Schist

Quartzite

Quartz Vein Quartz Pebble Conglomerate Limestone Pebble Conglomerate

Limestone Phyllite Grit **Psammite** 

HOSTROCK COMMENTS: Late Proterozoic (Hadrynian) strata were deposited at some time during

the interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay Cariboo

**RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Greenschist Amphibolite

INVENTORY

MINFILE NUMBER: 083D 003

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ORE ZONE: TUNNEL

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1938

COMMODITY

**GRADE** 

54.8600 Grams per tonne 41.1400 Grams per tonne

COMMENTS: Grades are for one (60 centimetre chip) of three samples taken from

the Horne tunnel on the Summit 3 claim. REFERENCE: Minister of Mines Annual Report 1938.

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years on account of the discovery of large  $\frac{1}{2}$ bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. The Summit mineral showing is located on a ridge between the Azure River and Hobson Creek, approximately 7.6 kilometres south of the headwaters of the Azure River.

The Summit mineral showing lies near the contact between the Hadrynian Upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The ground covering the Summit mineralization is on the crest and northeast limb of a major anticline which plunges at a low angle to the northwest. The country rock is predominantly rusty weathering, quartz-sericite schist, striking west and dipping 70 degrees north. Lesser amounts of impure quartzite, pebble conglomerate and interbedded limestone of the Isaac Formation also occur. Lithologies of the Hadrynian upper Kaza Group consist of quartzo-feldspathic psammite, phyllite, slate and minor

All the mineralization on the property is quartz-filled fissures containing pyrite, locally accompanied by galena, chalcopyrite, sphalerite, and rare amounts of tetrahedrite and arsenopyrite. Quartz veins all dip steeply and tend to strike one of four principal directions. The general structure strikes an average of 300 degrees. Other sets strike 330 to 340 degrees and 20 to 30 degrees. Those which strike 20 to 30 degrees are the most prominent as to size and most frequently contain sulphides. Those veins which are in quartzite, tend to have many branches that leave the parent in one or more sets and pinch out at 5 centimetres to 15 metres. All wide

quartz veins terminate abruptly.

The quartz within veins is white and crystalline and sulphides are erratically distributed as scattered grains, as veins and as pockets and smears. Pyrite tend to be either intercrystalline with quartz or shattered and veined by quartz. Galena, sphalerite and chalcopyrite with associated gold are distinctly later than, and found as veinlets in, the pyrite. Siderite, light when fresh, weathers deep brown to reddish and occurs in many veins as a common constituent. Sericite is locally present and likely represents digested remnants of schist inclusions.

At the main showing, the Horne tunnel (adit) is driven back about 7.5 metres into the base of a ridge. Near massive sulphides, consisting of a fine assemblage of pyrite, sphalerite, chalcopyrite and galena, occur along segments of the adit walls. Other portions are lightly mineralized with pyrite. Disseminated mineralization occurs up to 30 centimetres into host schists. Three samples were taken from the adit area and assayed as follows (Minister of Mines Annual Report 1938).

SAMPLE	LOCATION	Au(g/t)	Ag(g/t)
1	east wall of adit 2.13 to 3.66 metres	4.80	10.29
	back from portal.		
2	11 metres from portal; 60 centimetre	41.14	54.86
	chip sample.		
3	3 metres above portal; 132 centimetre	10.29	10.29
	chip sample on surface.		

Approximately 677 metres northwest along regional strike (100/70 NE) of a major fold, three quartz masses crop out within 60 metres of each other. One of these, an open cut measuring 2.44 metres wide by 6.0 metres long, exposes considerable siderite and locally a little pyrite in quartz veins. Small outcrops of quartz extend for 61 metres to the northwest and 76 to 122 metres to the southeast. These outcrops of quartz stringers and veins host disseminated pyrite, galena and arsenopyrite. A sample from this open cut assayed 30.17 grams per tonne gold and 17.14 grams per tonne silver (Minister of Mines Annual Report 1938).

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\*1938-D3-D17; 1939-107

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Falconbridge File

DATE CODED: 1985/07/24 DATE REVISED: 1991/11/28 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 004

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 005

NATIONAL MINERAL INVENTORY: 083D6 Cb1

NAME(S): **VERITY**, LEMPRIERE, VERITY FIRST, AR, AR 1-4, MILL,

BLÚE RIVEŔ

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Kamloops

NTS MAP: 083D06E

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1168

BC MAP: LATITUDE: 52 23 58 N LONGITUDE: 119 09 21 W

NORTHING: 5807654 EASTING: 353331

ELEVATION: 870 Metres LOCATION ACCURACY: Within 500M

Vermiculite

COMMENTS: Specimen pit on the Verity First claim (Assessment Report 10274).

COMMODITIES: Niobium Tantalum

Phosphate Uranium Rare Earths

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite COMMENTS: Refer to capsule geology for detailed mineralogy Vermiculite

ASSOCIATED: Dolomite Calcite Magnetite Ámphibole Zircon Pvrrhotite Olivine

Pvrite COMMENTS: Deposit classification is metasomatic.

ALTERATION: Amphibole **Biotite** Albite Perthite

COMMENTS: See comment under associated minerals. ALTERATION TYPE: Fenitic

MINERALIZATION AGE: Devonian-Mississipp. ISOTOPIC AGE: 325 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

Industrial Min. CLASSIFICATION: Magmatic

TYPE: N01 Carbonatite-hosted deposits

SHAPE: Tabular

DIMENSION: 800 x 30 TREND/PLUNGE: Metres STRIKE/DIP: 095/328 COMMENTS: Radiometric date is from two zircon separates. Potassium-argon dates

on richterite from beforsite are 92.5+/-3.2 and 80.2+/- 2.8 Ma. These

ages represent metamorphic ages (Bulletin 86, in press).

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

GROUP Horsethief Creek **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Hadrynian Undefined Formation

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite Beforsite

Sovite Fenite Schist Pelite Amphibolite

Quartz Hornblende Mica Schist

HOSTROCK COMMENTS: In Semipelite-Amphibolite Unit.

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

COMMENTS: Carbonatite in central (Omineca) division of carbonatite belt.

INVENTORY

REPORT ON: Y ORE ZONE: VERITY

> CATEGORY: Indicated YEAR: 1982

QUANTITY: 2000000 Tonnes COMMODITY **GRADE** 

Niobium 0.1180 Per cent 0.0200 Tantalum Per cent

COMMENTS: Values are weighted averages of Nb2O5 and Ta2O5 from a ten block

mineral inventory.

REFERENCE: Assessment Report 11130.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

In British Columbia, carbonatites are found in a broad zone parallel to and encompassing the Rocky Mountain Trench, extending from the Elkford area northward to Williston Lake. Occurrences within this belt have been subdivided into three sub-belts. Most carbonatite occurrences are found in the central belt. The central belt, predominantly within the Omineca Belt of the Canadian Cordillera, hosts most known stratiform carbonatites in the area between Revelstoke and Valemount. Within this northwest trending belt, a number of carbonatite layers containing anomalous strontium, niobium, tantalum and rare earth elements occur within the Semipelite- Amphibolite division of the Hadrynian Horsethief Creek Group in the Monashee Mountains near Blue River (Fieldwork 1984). All of these carbonatites have sodic-pyroxene and amphibole-rich fenitic margins and are associated with nepheline and sodalite syenites, urtites to meltergites. The time of emplacement of these carbonatites appears to be prior to the deformation and metamorphism associated with the Jura-Cretaceous Columbian orogeny and, in part, related to extension and/or rifting along the western continental A third major extensional event at the end of the Devonian margin. (circa 350 Ma.) resulted in the intrusion of carbonatites. Carbonatites and surrounding metasedimentary rocks have been regionally metamorphosed to upper amphibolite grade (kyanite to sillimanite zone) (Open File 1987-17; Bulletin 83, in press).

The Verity carbonatite is easily reached by trails and logging roads which cross the North Thompson River and intersect Highway 5 at Lempriere Station, approximately 40 kilometres north of Blue River. This showing has the most varied stratigraphy of all the carbonatites in the area and is similar texturally and compositionally to the Paradise showing (083D 006) and the Lempriere Carbonatite showing (083D 028). The Verity also contains the best mineralization of the Blue River carbonatites.

Carbonatite, consisting of banded beforsite and sovite (locally intruding each other), occurs as a 15 to 30 metre thick sill within quartz-hornblende-mica schist and can be traced from the Specimen pit up the hillside for 800 metres to the east-northeast. It likely continues to the Paradise showing, 4500 metres to the east-northeast. A tectonic breccia showing hairline fractures is common in the beforsite. A banded texture caused by layering of the accessory minerals apatite, amphibole, olivine, magnetite, vermiculite, biotite, pyrite, pyrrhotite, pyrochlore, columbite, and zircon, is common in the sovite unit and less developed in the beforsite unit. Coarse olivine and apatite in sovite units form bands 1 to 5 centimetres thick. Magnetite occurs as discontinuous lenses in sovite layers up to 20 centimetres in diameter. The pyrochlore and columbite crystals occur as octahedrons up to 4 centimetres. The major elements in pyrochlore are sodium, tantalum, niobium, and calcium, and locally minor uranium. The major elements in columbite are niobium and iron.

A 1.1-metre sample taken in 1952 assayed 0.6 per cent Nb205, 0.095 per cent uranium, and 4.85 per cent P205 (Minister of Mines Annual Report 1952). In 1982, the highest drill intersection was 0.025 per cent uranium over 1.5 metres. The Verity carbonatite has indicated reserves of 2 million tonnes of 0.118 per cent Nb205 and 0.020 per cent Ta205 (Assessment Report 11130). Rare earths occur in the carbonatite as indicated by assays of a sample with the following values: 0.0171 per cent lanthanum, 0.0371 per cent cerium, 0.0147 per cent neodynium, 0.0001 per cent ytterbium and 0.0020 per cent scandium. This sample also assayed 0.015 tantalum (Open File 1987-17). Sovites at the Verity showing also contain greater than 4 per cent phosphate and more apatite than any other carbonatite (Assessment Report 10274). The Rare Earths are thought to be in flurocarbonate.

The Blue River property was originally staked in 1950 for vermiculite by O.E. French, a homesteader in the area. Later investigations by French resulted in the discovery of the pyrochlore-bearing carbonatites. In 1952, St. Eugene Mining Corporation, Ltd. optioned the property and additional claims were staked. Most of the exploration work, consisting of trenching, sampling and blasting, was confined to the Verity and Mill claims. The property was dropped by St. Eugene and remained idle until June of 1976 when J. Kruszewski restaked the area. In June 1978, another trenching and sampling program was conducted under the supervision of E. Myers, Calgary, Alberta, with Kruszewski's assistance. A total of 840 cubic meters of stripping was undertaken and two grab samples were taken. In 1979, Kruszewski was approached by Anschutz (Canada) Mining Ltd. and an option contract was signed in February, 1980. In 1981 and 1982, the company conducted geological mapping, drilling and sampling.

Commerce Resources Corp. drilled five holes in 2001 and

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### **CAPSULE GEOLOGY**

reported a new inferred resource, based on previous drilling, of 3.06 million tonnes grading 160 grams per tonne tantalum, 452 grams per tonne niobium and 3.20 per cent phosphate.

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EMPR MAP \*22, #33
EMPR OF \*1987-17; \*1990-32 EMPR PF (unidentified news clipping; Knox, A. (2000): Summary Report on the Blue River Carbonatite Property, from Commerce Resources Corp. website)
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/07 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 005

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 006 NATIONAL MINERAL INVENTORY: 083D6 Cb2

NAME(S): PARADISE, AR 1-4, AR 4

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 083D06E BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 52 24 22 N NORTHING: 5808262 EASTING: 357887

LONGITUDE: 119 05 21 W ELEVATION: 2209 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of carbonatite location V; banded sovite/amphibolite zone with

fenite zone at the base (Assessment Report 11130).

COMMODITIES: Niobium Tantalum Phosphate

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite

COMMENTS: Refer to capsule geology for a detailed mineralogy.

SSOCIATED: Amphibole Vermiculite Dolomite C ASSOCIATED: Amphibole Zircon Calcite Magnetite

Olivine Biotite COMMENTS: Deposit classification is metasomatic.

ALTERATION: Amphibole Biotite Albite COMMENTS: See comment under associated minerals. Perthite

ALTERATION TYPE: Fenitic

MINERALIZATION AGE: Devonian-Mississipp. ISOTOPIC AGE: 340 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

CLASSIFICATION: Magmatic Industrial Min.

TYPE: N01 Carbonatite-hosted deposits SHAPE: Tabular MODIFIER: Folded Fractured

DIMENSION: 100 Metres STRIKE/DIP: 100/32S TREND/PLUNGE:

COMMENTS: Radiometric date is from zircon separates from Paradise Lake syenite. These provided a slightly discordant uranium-lead age of 340 Má and

lead-lead ages of 351 and 363 Ma (Bulletin 86, in press).

**HOST ROCK**DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Horsethief Creek

Hadrynian Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite Sovite Fenite

Quartz Hornblende Mica Schist Garnet Biotite Quartz Schist Feldspar Hornblende Gneiss

Nepheline Syenite Pelite Amphibolite **Beforsite** 

HOSTROCK COMMENTS: Beforsite also occurs in the Semipelite-amphibolite unit.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

COMMENTS: Carbonatites in central (Omineca) division of carbonatite belt.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1979 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip COMMODITY **GRADE**

Niobium 0.0320 Per cent Phosphate 4.5600 Per cent Tantalum 0.0130 Per cent

COMMENTS: Niobium and phosphate values are for Na2O5 and P2O5 respectively. Chip

sample was over 5 metres in beforsite.

REFERENCE: Assessment Report 10279.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

The Paradise carbonatite is similar in texture and composition to the Verity carbonatite prospect (083D 005), 4500 metres to the west-southwest. Exposures of carbonatite occur with high grade metasediments on the north face of Paradise Mountain, immediately south of Paradise Lake and along the ridge to the northwest, on both sides.

Carbonatite composition varies somewhat from outcrop to outcrop and within a single outcrop. Most consist of sovite and lesser local beforsite occurring as sills within quartz-hornblende-mica schist of the Semipelite-Amphibolite Division of the Hadrynian Horsethief Creek Group. A detailed description of the regional geology is given for the Verity carbonatite prospect (083D 005).

The beforsite and sovite-fenite gneiss are generally separate units but they locally intrude each other and continuous horizons grade from beforsite to sovite. Beforsite crystals were observed floating in a sovite matrix indicating the sovite was later. Similar observations were made in drilling at the Verity prospect. A biotite sovite phase is unique to the Paradise showing and occurs as pods and segregations associated with nepheline syenite and feldsparhornblende gneiss. Calcite, biotite, apatite and magnetite comprise the major constituents of this phase (Open File 1987-17). Carbonatite outcrops are in contact with fenite containing pyrochlore crystals. Gneisses show an increase in amphibole nearing the contact with carbonatites. A banded texture caused by layering of the accessory minerals apatite, amphibole, olivine, magnetite, biotite, pyrite, pyrrhotite, pyrochlore, columbite, and zircon is common in the sovite unit and less developed in the beforsite unit.

Chip samples over 5 metres across beforsite assayed 0.013 per cent tantalum, 0.032 per cent Nb205, and 4.56 per cent P205 (Assessment Report 10274). A sovite sample was analyzed and contained 0.36 per cent strontium cent zirconium (Open File 1987-17).

#### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 DATE REVISED: 1991/12/07 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 007

NATIONAL MINERAL INVENTORY:

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NAME(S): YELLOW CREEK, MICA KING, CLEAR WHITE, MICA QUEEN, BIG BEND

STATUS: Showing

REGIONS: British Columbia NTS MAP: 083D01W

BC MAP:

LATITUDE: LONGITUDE: 118 18 44 W ELEVATION: 1950 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Old workings at 6400 feet between westward flowing and northwestward

flowing forks (at the headwaters) of Yellow Creek (Industrial Minerals File: Watson, K.deP (1944): Draft report on the Mica Deposits on Yellow Creek).

COMMODITIES: Kyanite

Mica

Beryllium

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Biotite MINERALIZATION AGE: Cretaceous

Muscovite Quartz

Beryl Feldspår

**Tourmaline** 

Garnet

003

DEPOSIT

CHARACTER: Layered

6

Stratiform

Vein

Unnamed/Unknown Formation

**Podiform** 

CLASSIFICATION: Pegmatite TYPE: P02 K

Kyanite-sillimanite schists

Metamorphic

Industrial Min.

Muscovite pegmatite

O01 Rare element pegmatite - LCT family

SHAPE: Tabular MODIFIER: Folded Tabular

DIMENSION:

Metres

STRIKE/DIP: 294/66

TREND/PLUNGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5762006 EASTING: 409920

COMMENTS: The pegmatite sill ranges in thickness from 1.5 to 6 metres. Upper amphibolite facies metamorphic conditions were reached in the northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, 1990).

HOST ROCK

Hadrynian

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

**GROUP** 

Horsethief Creek

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Pelitic Kyanite Schist

Mica Schist Siliceous Gneiss Micaceous Pegmatite Sill Micaceous Quartzite Amphibolite Semi Pelite

Pegmatite Dike

HOSTROCK COMMENTS:

Occurrence is found in Semipelite-Amphibolite unit of the Horsethief Creek Group (Mitchell, 1976). See capsule geology for details.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE: Amphibolite

RELATIONSHIP: Syn-mineralization

Post-mineralization

CAPSULE GEOLOGY

The Yellow Creek occurrence is located at the head waters of Yellow Creek on the west side of McNaughton Lake, approximately 13 kilometres south-southeast of Boat Encampment. Warsaw Mountain is located approximately 3.25 kilometres to the northwest.

Mineralization at the Yellow Creek occurrence consists of two types: kyanite and mica hosted in schists and gneiss, and mica and beryl hosted in pegmatite sills and dykes.

The area is underlain primarily by folded metasedimentary rocks of the Hadrynian Horsethief Creek Group. The regional foliation in the area strikes 294 degrees and dips 66 degrees. Upper amphibolite facies metamorphic conditions were reached in the northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, pp. 103-106). An expanded description of the regional geology is given in the Warsaw Mountain showing (083D 041).

At the Yellow Creek occurrence, kyanite is present near the base of the Semipelite-Amphibolite unit (Geological Society of America Memoir 153) or equivalent Aluminous Pelite unit, both of the

> MINFILE NUMBER: 083D 007

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

Horsethief Creek Group (Open File 1988-26). A recent regional compilation, however, shows these lithologies as belonging to the underlying Lower Pelite unit of the Horsethief Creek Group (Geological Survey of Canada Open File 2324).

Kyanite is found mainly in schists and coarse gneisses with muscovite, biotite, quartz, feldspar and garnet. Greyish-blue flat kyanite crystals vary in size from place to place, ranging from 0.6 to 7.0 centimetres long. Kyanite comprises up to 10 to 15 per cent by volume of the rock in the area.

A micaceous pegmatite sill is exposed at about 1524 metres elevation over approximately 45 metres. Muscovite comprises 15 per cent per rock volume in isolated patches, generally averaging much less. A second pegmatite sill, 1.5 to 6.0 metres thick is exposed at 1951 metres and intrudes schist and gneiss. Muscovite averages approximately 10 per cent rock volume, reaching as high as 20 per cent over 3 square metres. Individual muscovite booklets reach a maximum of 20 centimetres diameter and 5 centimetres thick, the average being much smaller. Most of the muscovite is twinned, badly cracked and iron stained. Nearby exposures of pegmatite contain minor amounts of tourmaline (Watson, 1944).

minor amounts of tourmaline (Watson, 1944).

A beryl crystal was observed at the locality of the pegmatite mentioned above (ibid.). Beryl was reported seen in pegmatites at the Head of Yellow Creek. Spectrographic analyses recorded trace beryllium in muscovite and biotite from pegmatite and in kyanite and garnet from the wall rock schist (American Mineralogist, Vol. 18, p. 94, 1947).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/07 REVISED BY: KJM FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 008

NATIONAL MINERAL INVENTORY:

NAME(S): **BROWN CREEK** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D01W

MINING DIVISION: Golden UTM ZONE: 11 (NAD 83)

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1175

BC MAP: LATITUDE: 52 04 00 N

NORTHING: 5769306 EASTING: 407842

LONGITUDE: 118 20 40 W ELEVATION: 1166 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Kyanite is found in pelitic schists half a mile (0.8 kilometre) up Brown Creek which flows into the Columbia from the west,

approximately 4 miles (6.44 kilometres) southeast of Boat Encampment

(Annual Report 1952).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Garnet **Biotite** Muscovite

MINERALIZATION AGE: Cretaceous

DEPOSIT

CHARACTER: Layered Stratiform Disseminated

CLASSIFICATION: Métamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists SHAPE: Tabular

MODIFIER: Folded

COMMENTS: Upper amphibolite facies metamorphic conditions were reached in the

northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, 1990).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Hadrynian Horsethief Creek Unnamed/Unknown Formation

LITHOLOGY: Pelitic Kyanite Schist Quartzofeldspathic Psammite

Amphibolite Conglomerate Grit Calc-silicate

HOSTROCK COMMENTS: Mineralization is hosted in the Lower Pelite and Grit unit of the

Horsethief Creek Group (EMPR OF 1988-26, GSC OF 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Brown Creek occurrence is located 0.8 kilometres up Brown Creek on the west side of McNaughton Lake, approximately 6.44 kilometres south-southeast of Boat Encampment. Warsaw Mountain is located approximately 2.5 kilometres to the southwest.

The area is underlain primarily by folded metasedimentary rocks of the Hadrynian Horsethief Creek Group. Upper amphibolite facies metamorphic conditions were reached in the northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, pp. 103-106). An expanded

description of the regional geology is given in the Warsaw Mountain showing (083D  $\,$  041). At the Brown Creek occurrence, kyanite is present at the contact between the Aluminous Pelite unit (Open File 1988-26) or the equivalent Lower Pelite (Geological Survey of Canada Open File 2324) and Lower Grit unit (Open File 1988-26 and Geological Survey of Canada Open File 2324) of the Horsethief Creek Group. The Aluminous Pelite or Lower Pelite unit consists of pelitic schist, locally kyanite-sillimanite-staurolite-garnet-biotite and/or muscovitebearing, quartzofeldspathic psammite, conglomerate with clasts of marble, calcsilicate rock, quartzite and granite, and concordant and discordant amphibolite. The Lower Grit unit consists of granule conglomerate, quartzofeldspathic psammite and grit, minor pelitic schist and amphibolite. Kyanite occurs in pelitic schists with greyish-blue crystals, 0.6 to 7.0 centimetres long, locally comprising 10 to 20 per cent rock volume.

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1991/12/07 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 009

NATIONAL MINERAL INVENTORY:

NAME(S): GORGE CREEK

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

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1177

NTS MAP: 083D02E BC MAP: LATITUDE: 52 04 18 N

NORTHING: 5770161 EASTING: 392927

LONGITUDE: 118 33 44 W ELEVATION: 610 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Kyanite occurs in outcrops exposed in road cuts along the Big Bend Highway between miles 89.5 and 91.8 north of Revelstoke (Annual

Report 1952).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite

**Biotite** Muscovite Sillimanite Staurolite

ASSOCIATED: Garnet
MINERALIZATION AGE: Cretaceous

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Metamorphic Stratiform Disseminated

Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded Tabular

DIMENSION:

STRIKE/DIP: 083/44

TREND/PLUNGE:

COMMENTS: Strike and dip, taken is of prominent foliation (GSC Open File 2324). Upper amphibolite facies metamorphic conditions were reached in the

northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, 1990).

Hadrynian

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Pelitic Kyanite Schist

Quartzofeldspathic Psammite

Amphibolite Quartzite Conglomerate Calc-silicate

Horsethief Creek

HOSTROCK COMMENTS: Mineralization is hosted in the Aluminous Pelite unit (OF 1988-26)

or the underlying Lower Pelite unit (GSC OF 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenav METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Gorge Creek occurrence is located 1 kilometre southsoutheast from the Mica Dam on McNaughton Lake. The area is underlain primarily by folded metasedimentary rocks of the Hadrynian Horsethief Creek Group. The regional foliation in the area strikes 083 degrees and dips 44 degrees. Upper amphibolite facies metamorphic conditions were reached in the northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, pp. 103-106). An expanded description of the regional geology is given in the Warsaw Mountain showing (083D  $\,$  041).

In the Warsaw Mountain area, northern Selkirk Mountains, kyanite is present in localized pelitic horizons near the base of the Semipelite-Amphibolite division (Geological Society of America Memoir 153). The Aluminous Pelite unit (Open File 1988-26) and the Lower Pelite unit (Geological Survey of Canada Open File 2324) of the Horsethief Creek Group are more recent divisions correlative with the Semipelite-Amphibolite division. This unit consists of pelitic schist (locally kyanite, sillimanite, staurolite, garnet, biotite and/or muscovite-bearing), quartzofeldspathic psammite, conglomerate with clasts of marble, calcsilicate rock, quartzite and granite, and concordant and discordant amphibolite. Kyanite porphyroblasts in these horizons are up to 5 centimetres in length.

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DATE CODED: 1985/07/24 DATE REVISED: 1991/12/07 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 010

NATIONAL MINERAL INVENTORY:

NAME(S): YELLOWHEAD

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D15W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Cariboo

PAGE:

REPORT: RGEN0100

1179

LATITUDE:

NORTHING: 5859082 EASTING: 381233

LONGITUDE: 118 45 52 W ELEVATION: 1844 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Sandstone beds host quartz veins striking in almost every direction

(Minister of Mines Annual Report 1927).

COMMODITIES: Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork Discordant Disseminated

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

COMMENTS: Veins which are subvertical and 15 to 45 centimetres wide are lightly

mineralized (Minister of Mines Annual Report 1927).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Hadrynian Miette Undefined Formation

LITHOLOGY: Massive Conglomerate Sandstone

Pelite **Phyllite** Quartzite Limestone

Showing is hosted in middle Miette strata, one of three informal map HOSTROCK COMMENTS:

units recognized in the area (GSC Paper 88-1D, pp. 105-113).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1927 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver 75.4000 Grams per tonne

Lead 5.0000 Per cent

COMMENTS: Trace gold was also recorded in two samples. REFERENCE: Minister of Mines Annual Report 1927.

**CAPSULE GEOLOGY** 

The Yellowhead showing is located on the north side of Sleeper Mountain,  $3.5\ \text{kilometres}$  due south of Grant Brook on the Canadian

National Railway between Tete Jaune and Jasper.

The geology of the area has received considerable attention in recent years. Detailed mapping has been primarily conducted by E.W. Mountjoy in the Rainbow Range from 1964 to 1968. M.R. McDonough, more recently conducted detailed mapping in the northernmost Selwyn

Range.

Three informal map units have been recognized within the Hadrynian Miette Group of the northernmost Selwyn Range. lowermost consists of a pelite and quartzite succession assigned to lower Miette status. This strata underlies a thick sequence of massive conglomeratic sandstones (grits) and green pelites belonging to the middle Miette. The upper Miette consists of a sequence of dark calcareous pelites and black limestone with minor sandstone. The structure of the area is dominated by a series of large,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

upright F2 folds that form an anticlinorium in the Moose Lake Thrust, which truncates in the west limb of the Mount Robson synclinorium. Pelites of the lower and upper Miette are thickened primarily by folding and foliation development. Middle Miette strata are thickened by folding and thrust faulting. Pre F2 folding, bedding parallel thrusts also thickened middle Miette strata. This was first recognized by McDonough and Simony in 1988 (Geological Survey of Canada Paper 88-1D, pp. 105-113).

The metamorphic grade, in the area, decreases to the north and northeast into the biotite zone with scattered chloritoid of greenschist grade.

At about 1844 metres, the massive conglomeratic sandstone beds of the middle Miette unit, striking east-west, develop quartz veins which strike in almost every direction. These vary in width from 2.5 to 90 centimetres. The widest veins appear to be conformable with bedding and are barren. Veins which are more or less vertical, varying in width from 15 to 45 centimetres wide show slight galena and chalcopyrite. A sample from one of these mineralized veins assayed trace gold, 75.4 grams per tonne silver and 5 per cent lead (Minister of Mines Annual Report 1927).

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EMPR AR \*1927-163
GSC MAP 15-1967, 1339A
GSC OF 2259; \*2260; 2324
GSC P 84-1A, pp. 99-102; \*86-1A, pp. 619-626; \*88-1D, pp. 105-113;
88-1E, pp. 171-176; 90-1E, pp. 81-89, 90-1E, pp. 359-367;
91-1E, pp. 5-11
CJES Vol 25, No. 10, pp. 1687-1702
Geology Vol. 16, No. 2, pp. 139-143; Vol. 27, pp. 477-493

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 011

NATIONAL MINERAL INVENTORY:

NAME(S): SPIDER, EAGLE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Cariboo

NTS MAP: 083D15W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1181

LATITUDE: 52 54 12 N LONGITUDE: 118 59 58 W ELEVATION: 1402 Metres NORTHING: 5863389 EASTING: 365524

LOCATION ACCURACY: Within 1 KM

COMMENTS: Small quartz veins are developed in quartz conglomerate (Minister of

Mines Annual Report 1927).

COMMODITIES: Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite

COMMENTS: Chalcopyrite was reported at the nearby Yellowhead showing (083D 010)

Minister of Mines Annual Report 1927).

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Stockwork Discordant

CLASSIFICATION: Hydrothermal Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 SHAPE: Irregular

STRIKE/DIP: TREND/PLUNGE: DIMENSION: 2 Metres

COMMENTS: Mineralization was reported in a vein 15 centimetres wide (Minister of

Mines Annual Report 1927).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Hadrynian Miette Undefined Formation

LITHOLOGY: Massive Conglomerate Sandstone

Quartz Vein Pelite Phyllite Quartzite Limestone

HOSTROCK COMMENTS: Showing is hosted in middle Miette strata, one of three informal map

units recognized in the area (GSC Paper 88-1D, pp. 105-113).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Continental Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1927 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 360.0000 Grams per tonne 62.0000 Per cent

Lead Zinc 1.0000 Per cent

COMMENTS: Trace gold was recorded in two samples. REFERENCE: Minister of Mines Annual Report 1927.

**CAPSULE GEOLOGY** 

The Spider showing is located on the northwest of Sleeper Mountain, 5 kilometres due west of Grant Brook on the Canadian National Railway between Tete Jaune and Jasper.

The geology of the area has recieved considerable attention in recent years. Detailed mapping has been primarily conducted by E.W. Mountjoy in the Rainbow Range from 1964 to 1968. M.R. McDonough, more recently conducted detailed mapping in the northernmost Selwyn

Three informal map units have been recognized within the Hadrynian Miette Group of the northernmost Selwyn Range. The lowermost consists of a pelite and quartzite succession assigned to

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

lower Miette status. This strata underlies a thick sequence of massive conglomeratic sandstones (grits) and green pelites belonging to the middle Miette. The upper Miette consists of a sequence of dark calcareous pelites and black limestone with minor sandstone. North of Sleeper Creek, thick conglomerate and sandstone units form a channel-like feature that cuts into and eliminates the underlying pelite unit. Thick conglomerates were deposited by mass gravity processes, likely representing debris and grain flows, and developed channels in an anastomosing submarine fan complex.

The structure of the area is dominated by a series of large, upright F2 folds that form an anticlinorium in the Moose Lake Thrust, which truncates in the west limb of the Mount Robson Synclinorium. Pelites of the lower and upper Miette are thickened primarily by folding and foliation development. Middle Miette strata are thickened by folding and thrust faulting. Pre F2 folding, bedding parallel thrusts also thicken middle Miette strata. This was first recognized by McDonough and Simony (Geological Survey of Canada Paper 88-1D, pp. 105-113).

Metamorphic grade, in the area, decreases to the north and northeast into the biotite zone with scattered chloritoid of greenschist grade.

At about 1402 metres, the massive conglomeratic sandstone beds of the middle Miette unit, host small quartz veins. A vein 15 centimetres wide is well mineralized with galena and lesser sphalerite. A sample from one of these mineralized veins assayed trace gold, 360 grams per tonne silver, 62 per cent lead and 1 per cent zinc (Minister of Mines Annual Report 1927).

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88-1E, pp. 171-176; 90-1E, pp. 81-89, 90-1E, pp. 359-367;
91-1E, pp. 5-11
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1991/12/07 REVISED BY: KJM FIELD CHECK: N

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### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 012

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1183

NAME(S): CANOE NORTH MICA, CANOE, CANOE 1, VTS GRID, VALEMOUNT, CANOE RIVER, VALEMONT, JOHN 1-11, CEDARSIDE

STATUS: Past Producer REGIONS: British Columbia Open Pit MINING DIVISION: Cariboo

NTS MAP: 083D14W UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 52 45 35 N NORTHING: 5848011 LONGITUDE: 119 17 40 W EASTING: 345177 ELEVATION: 993 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of drillhole GM-12 on the Canoe North Mica occurrence

(Assessment Report 7687).

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica Muscovite ASSOCIATED: Kyanite **Biotite** Staurolite Garnet Quartz

Pyrite Féldspar Pyrrhotite

COMMENTS: Garnet, rutile and ilmenite were identified by X-ray diffraction on a schist sample by the Department of Mines, Ottawa (Industrial Minerals

File: Report for Mits Development Co. Ltd, June 1978).

MINERALIZATION AGE: Lower Cretaceous ISOTOPIC AGE: 135 +/- 4 Ma DATING METHOD: MATERIAL DATED:

**DEPOSIT** 

CHARACTER: Concordant Stratiform Disseminated

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

DIMENSION: 18 STRIKE/DIP: 240/10 TREND/PLUNGE: Metres

COMMENTS: Hole 78-1 collared in 18.3 metres of schist (Assessment Report 7687). The foliation of layers within the showing strike 240 degrees and dip

10 degrees northwest (Minister of Mines Annual Report 1961).

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Kaza Hadrynian Undefined Formation Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Pelitic Schist

Muscovite Quartz Schist Biotite Muscovite Pelite

**Psammite** Amphibolite Marble Calc-silicate Conglomerate Coarse Grained Grit

Diamictite

HOSTROCK COMMENTS: The Canoe North Mica occurrence is located on the northwestern margin

of the Shuswap Metamorphic Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay Ancestral North America

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

COMMENTS: Showing is immediately west of the southern Rocky Mountain Trench.

INVENTORY

ORE ZONE: QUARRY REPORT ON: Y

> CATEGORY: Inferred YEAR: 1980

QUANTITY: 1000000 Tonnes

COMMODITY **GRADE** Mica 60.5000 Per cent

COMMENTS: Fairly assured reserves.

REFERENCE: Canadian Mining Journal, May 1982, page 13.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: QUARRY REPORT ON: Y

CATEGORY: Measured YEAR: 1980 QUANTITY: 2290000 Tonnes

<u>COMMODITY</u> GRADE

Mica 60.5000 Per cent

REFERENCE: Canadian Mining Journal, May 1982, page 13.

### **CAPSULE GEOLOGY**

The Canoe North Mica property is situated on the north side of the Canoe River about  $5\ \text{kilometres}$  southwest of Cedarside.

The showing is underlain by folded Hadrynian Lower Kaza Group kyanite-staurolite-garnet-biotite and/or muscovite-quartz-feldspar pelitic schist. Other lithologies of the lower Kaza Group include psammite, amphibolite, marble, calc-silicate, conglomerate, coarse grained grit and diamictite. The foliation of layers within the showing strike 240 degrees and dip 10 degrees northwest. A more detailed description of the regional structure and metamorphism is given in the Canoe South Mica (083D 017) and Albreda (083D 018) occurrences.

In the quarry, schist consists predominantly of muscovite and quartz with lesser garnet, biotite and feldspar, in layers striking 240 degrees and dipping 10 degrees to the northwest. A sample from the main quarry was sent to the Department of Mines, Ottawa where garnet, rutile and ilmenite were identified by x-ray diffraction. The main quarry is about 61 metres in diameter and 3.0 to 4.5 metres deep.

In 1961, a drill program, consisting of 18 short holes covering an area of 152 square metres, indicated approximately 200,000 tonnes of reserves grading 85 to 90 per cent mica to depth of 3.65 metres (Northern Miner March 15, 1962). Some holes were drilled to a depth of 12 metres without reaching the lower limit of the mica-rich layer. A processing plant was built in Cedarside in 1960 and 100 tonnes of mica product was produced for market by Georgia Mineral Industries Ltd. (Minister of Mines Annual Report 1960). During 1961, a further 125 tonnes of mica were produced (Minister of Mines Annual Report 1961). In 1962 remodelling of the plant was completed and testing begun. Several shipments of mica were made to dry-wall joint cement consumers (Minister of Mines Annual Report 1962).

Mits Development Company Ltd. drilled a 91.5 metre hole on the

Mits Development Company Ltd. drilled a 91.5 metre hole on the Canoe 1 claim in 1978. In 1979, a further 16 holes were drilled totalling 641.3 metres. Forty five samples were submitted for froth flotation for mica recovery. Results ranged from 51.6 to 68.5 per cent muscovite (Assessment Report 7687).

Outland Resources Corp. outlined 2,290,000 tonnes of reserves after acquiring the property in 1980. The grade was 60.5 per cent muscovite. Another 1,000,000 tonnes of reserves was fairly assured (Canadian Mining Journal, May 1982).

Property work in 1986 and 1987 included a pre-feasibility study. Conclusions of the study were that present markets were inadequate to justify production at that time.

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EMPR ASS RPT \*7687
EMPR BC METAL (Industrial mineral production fiche for Georgian Mineral Industries Ltd.)
EMPR EXPL 1978-E289; 1979-333; 1986-A79
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GSC EC GEOL No. 19, pp. 83,84
GSC M 15-1967; 1339A
GSC OF 2324
GSC P \*89-1E, pp. 101-107, \*90-1E, pp. 71-80
CMJ \*May 1982, p. 13
GCNL No. 62, 155, 1981; No. 45, 1982; No. 107, 112, 1987
N MINER \*March 15, 1962; March 11, 1982; Sept 1, 1983

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/08 REVISED BY: KJM FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 013

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5834444

EASTING: 308368

REPORT: RGEN0100

1185

NAME(S): WAR COLT 1, WAR COLT, WAR COLT 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops NTS MAP: 083D12W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 52 37 34 N LONGITUDE: 119 49 53 W ELEVATION: 1633 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of War Colt Tunnel (from figure 2; Minister of Mines Annual

Report 1938).

COMMODITIES: Silver Gold Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena Sphalerite Pyrite

ASSOCIATED: Quartz Siderite

ALTERATION: Sericite

COMMENTS: Sericitic alteration was observed in other veins throughout the area.

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stockwork Shear Massive

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPF: F03 Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular DIMENSION: 15 Metres STRIKE/DIP: 300/60N TREND/PLUNGE:

COMMENTS: Mineralized quartz vein strikes 300 degrees, dips 60 northeast, and

has been traced for 15 metres along strike. Maximum width is 2 metres but pinches out at both ends (Minister of Mines Annual Report 1929).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hadrynian GROUP Kaza **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation

Hadrynian Cariboo Isaac

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Massive Quartzite

Schist

Quartz Pebble Conglomerate

Quartz Sericite Schist

Phyllite Argillite Limestone

Quartzofeldspathic Psammite

Slate Grit

HOSTROCK COMMENTS: Late Proterozoic (Hadrynian) strata were deposited at some time during

the interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains Cariboo

3.2000

Per cent

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

Amphibolite

COMMENTS: Located near contact between upper Kaza Group and Isaac Formation.

INVENTORY

ORE ZONE: SHAFT REPORT ON: N

> YEAR: 1927 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY GRADE Silver 445.7000 Grams per tonne 1.3700 Gold Grams per tonne 7.8000 Copper Per cent Lead 8.0000 Per cent

Zinc COMMENTS: Sample was from shaft.

REFERENCE: Minister of Mines Annual Report 1927.

MINFILE NUMBER: 083D 013

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years due to the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. Mineralization on the War Colt claim group is located on the east bank of the Azure River immediately south of the junction between the Azure River and War Colt Creek. The Summit (083D 004), Grizzley (083D 027) and Blue Ice (083D 003,025,026) occurrences all lie to the northwest.

The War Colt claim group lies near the contact between the Hadrynian upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The country rocks, striking 255 degrees, consist of massive quartzite, quartz pebble conglomerate, quartz-sericite schist, phyllite, argillite and limestone, of the Isaac Formation. Lithologies of the upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit.

On the War Colt claims there are a number of exposures indicating intersecting veins. The most important showing is located along the east bank of the Azure River where a short tunnel has been driven 4.9 metres from an open pit in a northeast direction and a shallow shaft put down into a massive sulphide pocket within a quartz vein conformable with host schist and quartzite. Open cuts extend the exposed mineralized quartz 13.7 metres northwest and three open cuts lie to the south and southeast exposing a number of quartz bodies.

In the adit, the innermost 1.5 metres consists of smokey quartz and siderite in a vein striking 300 degrees, dipping 60 degrees northeast and traced 15 metres along strike. This vein, up to 2 metres wide, pinch out at both ends and is conformable with host rocks and hosts the massive sulphide pocket. A second vein appears to follow a northeast fracture and is approximately 2 metres wide.

to follow a northeast fracture and is approximately 2 metres wide.

Pyrite occurs locally near the portal and a sample of the
northwest vein from near the portal assayed 3.43 grams per tonne gold
and 185.1 grams per tonne silver (Minister of Mines Annual Report
1927). Chalcopyrite is abundant to the northwest. Galena and lesser
sphalerite are frequently seen in veinlets crosscutting carbonate and
accompanied by quartz. A sample from the shaft assayed 1.37 grams
per tonne gold, 445.7 grams per tonne silver, 7.8 per cent copper, 8
per cent lead and 3.2 per cent zinc (Minister of Mines Annual Report
1927).

A showing of quartz and siderite, approximately 3 metres square, crops out at the junction of Canyon Creek with the Azure River. Bands of pyrite, up to 15 centimetres wide, follow an east-west vein wall and a parallel zone of pyrite 30 to 60 centimetres wide traverses the mass. A high grade grab of this zone assayed 2.74 grams per tonne gold and 10.3 grams per tonne silver (Minister of Mines Annual Report 1938).

### **BIBLIOGRAPHY**

```
EMPR AR 1919-N179; *1920-N168; *1923-A157; 1925-A171; 1926-A189; *1927-C192; *1929-C221; 1930-A193; 1931-A107; *1933-A194; *1938-D3-D17; 1939-107

EMPR BULL *1, p. 69

EMPR PF (War Colt Group report, 1 p., 1933; Report by N.E. Nelson, 1936)

GSC MAP 15-1967; 1339A

GSC OF 2324

GSC P 86-1A, pp. 589-594; 87-1A, pp. 735-742

GSC SUM RPT 1926A; *1929A

CJES Vol. 14, No. 7, pp. 1690-1695; Vol. 24, No. 2, pp. 302-313
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1991/12/08 REVISED BY: KJM FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 014

NATIONAL MINERAL INVENTORY:

NAME(S): WAR COLT 2, WAR COLT, WAR COLT 1

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

NTS MAP: 083D12W BC MAP: LATITUDE: 52 37 34 N

PAGE:

REPORT: RGEN0100

1187

LONGITUDE: 119 48 53 W ELEVATION: 1666 Metres

NORTHING: 5834400 EASTING: 309495

LOCATION ACCURACY: Within 500M

COMMENTS: Exposure of massive quartz with some underground workings and stripped over 7.6 metres is 183 metres above War Colt 1 (083D 013)

(location 1, figure 3, Minister of Mines Annual Report 1938).

COMMODITIES: Gold Silver Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena Tetrahedrite Sphalerite Pyrite

ASSOCIATED: Quartz Siderite
COMMENTS: Siderite is commonly associated with many of the veins in the

immediate vicinity although no mention is made of it for this showing. ALTERATION: Sericite

COMMENTS: Sericitic alteration was observed in other veins throughout the area.

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stockwork Shear Disseminated

CLASSIFICATION: Hydrothermal TYPE: E03 Carbo **Epigenetic** 

Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular DIMENSION: 14 x 3 STRIKE/DIP: 055/ TREND/PLUNGE: Metres

COMMENTS: Exposure of massive quartz, trending 055 degrees, is 13.7 metres long metres wide (Minister of Mines Annual Report 1938).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Kaza Undefined Formation Hadrynian Cariboo Isaac

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Massive Quartzite

Quartz Pebble Conglomerate Quartz Sericite Schist

Phyllite Aráillite Limestone

Quartzofeldspathic Psammite

Slate

Grit

Late Proterozoic (Hadrynian) strata were deposited at some time during the interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Cariboo Mountains TECTONIC BELT: Cariboo

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist Amphibolite

COMMENTS: Located near contact between upper Kaza Group and Isaac Formation.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1938

SAMPLE TYPE: Grab

COMMODITY Silver 301.7000 Grams per tonne 28.8000 Gold Grams per tonne Copper 2.9000 Per cent

Lead 3.1000 Per cent COMMENTS: Mineralization was not abundant in the sample which the above assay

results were attained. REFERENCE: Minister of Mines Annual Report 1938.

> MINFILE NUMBER: 083D 014

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years due to the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. Mineralization on the War Colt claim group is located on the east bank of the Azure River immediately south of the junction between the Azure River and War Colt Creek. The Summit (083D 004), Grizzley (083D 027) and Blue Ice (083D 003,025,026) showings all lie to the northwest.

The War Colt claim group lies near the contact between the Hadrynian upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The country rocks, striking 255 degrees, consist of massive quartzite, quartz pebble conglomerate, quartz-sericite schist, phyllite, argillite and limestone, of the Isaac Formation. Lithologies of the Hadrynian upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit

slate and minor grit.

On the War Colt claims there are a number of exposures indicating intersecting veins. Massive quartz, 13.7 metres long by 3 metres wide is located approximately 183 metres eastward from the War Colt 1 (083D 013) showing. It has been exposed by some underground workings and by stripping over 7.6 metres. The massive quartz body trends 055 degrees.

The quartz is barren except for a 9-metre band along the northwest boundary and a shorter parallel band, 1 metre wide, extending from the center of the mass. Mineralization is not abundant but includes chalcopyrite, tetrahedrite, galena and lesser sphalerite. A sample of material from this showing assayed 28.8 grams per tonne gold, 301.7 grams per tonne silver, 2.9 per cent copper and 3.1 per cent lead (Minister of Mines Annual Report 1938). In 1923, a chip sample across the 7.6 metres stripped area assayed 12.34 grams per tonne gold and 34.28 grams per tonne silver (Minister of Mines Annual Report 1923).

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EMPR BULL \*1, p. 69

EMPR PF (Report by N.E. Nelson, 1936)

GSC MAP 15-1967; 1339A

GSC OF 2324

GSC P 86-1A, pp. 589-594; 87-1A, pp. 735-742

GSC SUM RPT 1926A; \*1929A

CJES Vol. 14, No. 7, pp. 1690-1695; Vol. 24, No. 2, pp. 302-313

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 015

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1189

NAME(S): **BEND 2900**, BEND 1-45, BEND 1, BEND, CANYON ZONE, MGM

STATUS: Showing MINING DIVISION: Golden

REGIONS: British Columbia NTS MAP: 083D01E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: NORTHING: 5767210 LONGITUDE: 118 13 14 W **EASTING: 416302** 

ELEVATION: 884 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Outcrop containing five bands of massive sulphides alternating with

siliceous sulphide layers (Assessment Report 16544).

Zinc COMMODITIES: Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Galena Magnetite Pyrite

ASSOCIATED: Quartz ALTERATION: Silica Dolomite

ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Proterozoic-Cambrian

ISOTOPIC AGE: DATING METHOD: Lead/Lead MATERIAL DATED: Galena

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive Disseminated Exhalative Syngenetic

TYPE: E14 Sedimentary exhalative Zn-Pb-Ag

DIMENSION: Metres STRIKE/DIP: 290/55 TREND/PLUNGE:

COMMENTS: Strike and dip is from bedding at the southern end of the showing. Lead isotope age from galena is Hadrynian-Cambrian (Fieldwork 1986).

Zone is 4.7 metres wide (Assessment Report 16544).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Middle Cambrian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Chancellor Tsar Creek

LITHOLOGY: Manganiferous Dolomite

COMMENTS: Biotite-sillimanite zone.

Micaceous Quartzite Sericitic Schist Quartzite Carbonate Pelite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Continental Ranges

TECTONIC BELT: Foreland
TERRANE: Ancestral North America
METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 12.9000 Grams per tonne Lead 1.2000 Per cent Zinc 4.5000 Per cent

COMMENTS: Grades are weighted averages of five samples for all commodities

except gold, over an average width of 4.7 metres.

REFERENCE: Assessment Report 16544.

CAPSULE GEOLOGY

The Bend 2900 showing is located on the southeast slope of the Cummins River canyon approximately 300 metres southeast along strike from the Bend 1 Canyon Zone occurrence (083D 001) and is one of four newly described massive sulphide outcrops occurring at consecutively higher elevations beginning at 750 metres. The mineralization was discovered in 1987 by Cominco during an access road and drill site construction project. These newly discovered occurrences extend southeast of several known stratiform exhalative massive sulphide showings including the Bend 1 Canyon Zone and the Bend North Road

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### CAPSULE GEOLOGY

Zone (083D 002) forming a zone trending west-northwest almost 330 metres long and approximately 60 metres wide, on the north side of the Cummins River canyon.

A sequence of quartzites, carbonates and pelites from the Hadrynian Miette Group through the Lower Cambrian Gog Group through to the Middle Cambrian Chancellor Group comprises the rocks of the Southern Park Ranges in this area. Individual beds generally strike 290 degrees and dip 55 degrees northeast. For a more comprehensive description of the regional geology refer to the Bend 1 Canyon Zone

occurrence (083D 001).
Stratiform mineralization at the Bend 2900 occurs within the Middle Cambrian Tsar Creek Formation of the Chancellor Group. The showing consists of 5 bands of massive pyrite, sphalerite, galena, and magnetite alternating with siliceous sulphide layers. Sulphide mineralization alternates with layers of manganiferous dolomite containing lenses of massive pyrite, sphalerite and galena. is approximately 5 metres thick. The southern edge of the mineralization is in contact with micaceous quartzite containing disseminated and podded pyrite, pyrrhotite, sphalerite, and galena. Selected bands of the massive sulphide mineralization assayed 0.432 gram per tonne gold, 40.69 grams per tonne silver, 4.1 per cent lead and 10.0 per cent zinc (Assessment Report 16544). A weighted average of a chip sample over 4.7 metres from all five bands of massive sulphide mineralization assayed 12.9 grams per tonne silver, 1.2 per

cent lead and 4.5 per cent zinc (Assessment Report 16544).

Other mineralized outcrops were discovered at 792 metres, 823 metres, 914 metres and 1067 metres elevation consecutively, along strike. These outcrops are considered here to be part of the Bend 2900 showing. A highly oxidized sample from 792 metres, 70 metres along strike from the Bend 1 Canyon Zone, assayed 34.0 grams tonne silver, 1.2 per cent lead and 2.2 per cent zinc (Assessment Report 16544). Rubbly outcrop of manganiferous dolomite from 823 metres assayed 21 to 87 grams per tonne silver, 1.1 to 4.5 per cent lead and 7 to 16 per cent zinc over less than one metre (Assessment Report 16544). At 914 metres, small rods of fine lenses of pyrite, sphalerite and galena were noted in sericitic schist. A few mineralized quartz filled fractures were found in a small oxidized zone within manganiferous dolomite exposed at 1067 metres, about 300 metres southeast along strike from the Bend 1 Canyon Zone.

## **BIBLIOGRAPHY**

EMPR AR 1959-90, 104; 1967-264 EMPR ASS RPT 9994, 11565, 12155, 15251, \*16544 EMPR FIELDWORK \*1986 EMPR GEM 1970-446 EMPR PF (Claim, trenching, diamond drilling and geology maps, The Consolidated Mining and Smelting Company (1967); Field Notes, J.T. Fyles (1970)) GSC OF 2324 GSC P 66-1, pp. 51-62 CJES 15, pp. 86-98 GSA MEM 153, pp. 445-461 EMPR OF 2000-22

DATE CODED: 1991/10/11 DATE REVISED: 1991/10/11 CODED BY: KJM REVISED BY: KJM FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 016

NATIONAL MINERAL INVENTORY:

NAME(S): **VALEMONT**, ABA SANDS

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Cariboo

NTS MAP: 083D14W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

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1191

LATITUDE: 52 49 42 N LONGITUDE: 119 17 04 W ELEVATION: 915 Metres NORTHING: 5855620 EASTING: 346094

LOCATION ACCURACY: Within 500M

COMMENTS: The occurrence is located 1.6 kilometres west of Valemount (Minister

of Mines Anuual Report 1963).

COMMODITIES: Silica

MINERALS
SIGNIFICANT: Silica MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Unconsolidated
CLASSIFICATION: Sedimentary
TYPE: B12 Sand and Gravel Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary

GROUP Unnamed/Unknown Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Silica Sand

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Southern Rocky Mountain Trench

**CAPSULE GEOLOGY** 

The Valemont deposit is located 1.6 kilometres west of Valemount

and was mined for sand blasting material by Alba Sands Ltd. in 1963

The sand is reported to grade 60 to 70 per cent silica. Approximately 150 tonnes of material was mined from an open pit on the property and sold mainly for sand blasting (Minister of Mines Annual Report 1963). A \$150,000 mill was constructed at the pit,

which had a 200-ton per day capacity.

**BIBLIOGRAPHY** 

EMPR AR \*1963-151; \*1964-207

DATE CODED: 1985/07/24 DATE REVISED: 1991/12/05 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 017

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Cariboo

UTM ZONE: 11 (NAD 83)

NORTHING: 5844910 **EASTING: 345434** 

REPORT: RGEN0100

1192

NAME(S): CANOE SOUTH MICA, ALBREDA/CAMP CREEK, CANOE GRID

STATUS: Past Producer Underground

REGIONS: British Columbia

NTS MAP: 083D11W BC MAP:

LATITUDE: 52 43 55 N LONGITUDE: 119 17 21 W ELEVATION: 968 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Center of Canoe Grid (Industrial Minerals File, mineral property map 83D11/W).

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica

ASSOCIATED: Kyanite

Muscovite Plagioclase

Staurolite

Garnet

**Biotite** 

Quartz

COMMENTS: The associated mineral assemblage will vary depending whether the showing is hosted by pelitic schist/pelite or within pegmatite bodies hosted in the former. Refer to capsule geology for explanation.

MINERALIZATION AGE: Lower Cretaceous

ISOTOPIC AGE: 135 +/- 4 Ma

DATING METHOD:

MATERIAL DATED:

Disseminated

DEPOSIT

CHARACTER: Concordant CLASSIFICATION: Metamorphic

Tabular

Stratiform Pegmatite

Industrial Min.

SHAPE: Tabula MODIFIER: Folded

Faulted

Metres

STRIKE/DIP:

Vein

TREND/PLUNGE: 135/04

DIMENSION:

COMMENTS: Trend and plunge are for a fold axis approximately one kilometre south of the occurrence (GSC Paper 89-1E, pp. 101-107). Age of metamorphism is for the main metamorphic event (GSC Paper 90-1E, pp. 71-80).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Upper Proterozoic Proterozoic-Paleoz. Kaza

**FORMATION** 

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Pelitic Schist

Peamatite

Sub Feldspathic Psammite Sub Feldspathic Grit

Amphibolite Diamictite Marble Calc-silicate Quartzite Conglomerate

HOSTROCK COMMENTS:

Host rocks are interpreted to be lower Kaza Group (Geological Survey

of Canada Open File 2324).

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay TECTONIC BELT:

Ancestral North America

PHYSIOGRAPHIC AREA: Cariboo Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: Relationship of metamorphism varies with age of the host rock. GRADE: Amphibolite

CAPSULE GEOLOGY

A showing of white muscovite has been exposed on the west side

of Highway 5, approximately 9 kilometers south of Valemount. An open cut at the showing exposed quality white muscovite. It is not known whether this showing occurs in pelitic schist or pegmatite.

tunnel of unknown length was started at the west end of the pit.

Mutiphase deformation has affected stratigraphy of the lower Kaza Group and underlying Hadrynian Horsethief Creek Group strata, resulting in large antiform-synform pairs trending northwest. least three phases of deformation have been recognized. The later two phases have produced coaxial, generally northwest-plunging fold axes, superimposed on the limbs of large-scale, phase one structures (Geological Survey of Canada Paper 89-1E). The trend and plunge of a major fold axis 1 kilometre south of the Canoe South Mica occurrence are 135 and 04 degrees respectively.

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### CAPSULE GEOLOGY

Metamorphic grade is dominantly within the kyanite stability field of amphibolite grade, with local development of migmatite which increases from east to west. Pressures and temperatures of metamorphism range from 620 to 780 megapascals and 565 to 682 degrees celsius respectively (Geological Survey of Canada Paper 89-1E). The age of the main metamorphic event in this area is Early Cretaceous (135+/-4 Ma) (Geological Survey of Canada Paper 90-1E).

The showing occurs in Hadrynian lower Kaza Group pelitic schist

The showing occurs in Hadrynian lower Kaza Group pelitic schist (locally kyanite, staurolite, garnet, muscovite and biotite bearing) of the lower Kaza Group. Other lithologies of the lower Kaza Group in the vicinity include subfeldspathic psammite and grit, orthoamphibolite, marble, calc-silicate, quartzite, diamictite and conglomerate (Geological Survey of Canada Open File 2324). Pegmatite bodies, ranging in thickness from 3 centimetres to 3 metres, are present throughout the area. They consist of coarse grained plagioclase, quartz and muscovite with minor garnet. Some bodies are transposed and deformed with host lithologies, whereas others crosscut foliation and folds of host lithologies, therefore representing different generations (Geological Survey of Canada Paper 89-1E).

Approximately 4 tonnes were mined with 4000 lbs (1815 kilograms) being packed out (Minister of Mines Annual Report 1915).

Mica schist from the Albreda vicinity was ground by L.T. Farley and Co. and by G.W. Richmond of Vancouver for use by roofing manufacturers in Vancouver and Victoria (Ministry of Mines Annual Report 1947). Between 1944 and 1954, 3,941 tonnes were mined, yielding 3,989,756 kilograms of mica. In 1960, N.E. Reid produced a minor amount from the area.

#### **BIBLIOGRAPHY**

EMPR AR \*1914-K54-K55; 1947-A220

EMPR BC METAL (Industrial minerals production fiche on Fairey & Company)

EMPR IND MINFILE (\*Report for Mits Development Co. Ltd., June 1978)

GSC EC GEOL No. 19, pp. 83-84

GSC MAP 15-1967; 1339A

GSC OF 2324

GSC P \*89-1E, pp. 101-107; \*90-1E, pp. 71-80

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1991/12/08 REVISED BY: KJM FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 018

NATIONAL MINERAL INVENTORY:

NAME(S): ALBREDA, DEC GRID

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Cariboo

NTS MAP: 083D11E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1194

LATITUDE: 52 40 16 N LONGITUDE: 119 13 29 W ELEVATION: 1067 Metres NORTHING: 5838008 EASTING: 349576

IGNEOUS/METAMORPHIC/OTHER

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the Dec claim grid (Industrial Minerals File: Report for Mits Development Company Ltd., June 1978).

COMMODITIES: Mica

Kvanite

**MINERALS** 

SIGNIFICANT: Mica Muscovite Kyanite COMMENTS: Refer to capsule geology for explanation.

ASSOCIATED: Biotite Plagioclase Quartz Garnet Staurolite Sillimanite

COMMENTS: The associated mineral assemblage will vary depending whether the

mica/kyanite is hosted in pelitic schist/pelite or within pegmatite dykes hosted in the former. Refer to capsule geology for explanation.

MINERALIZATION AGE: Lower Cretaceous

ISOTOPIC AGE: 135 +/- 4 Ma DATING METHOD: MATERIAL DATED:

DEPOSIT

CHARACTER: Concordant Stratiform Disseminated

CLASSIFICATION: Metamorphic Industrial Min. Kyanite-sillimanite schists TYPE: P02

O03 Muscovite pegmatite

SHAPE: Tabular MODIFIER: Folded

DIMENSION: Metres

STRIKE/DIP: 100/48 TREND/PLUNGE: 284/09

COMMENTS: Strike/dip are for regional foliation and trend/plunge are for fold

axis near showing (GSC Paper 89-1E, pp. 101-107). Age of mineralization is for the main metamorphic event (GSC Paper 90-1E, pp. 71-80).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Hadrynian Hadrynian

**GROUP FORMATION Undefined Formation** Kaza **Undefined Formation** Horsethief Creek

Protérozoic-Paleoz.

Shuswap Metamorphic Complex

LITHOLOGY: Biotite Muscovite Pelite

Semi Pelite Pelitic Schist

Quartz Biotite Muscovite Schist Amphibolite Schist

Coarse Grained Grit

Quartz Biotite Plagioclase Psammite

Garnet Amphibolite

Pegmatite

HOSTROCK COMMENTS:

Pelitic schists are locally kyanite, sillimanite, staurolite, garnet, quartz, biotite and/or muscovite bearing (GSC Open File 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional Ancestral North America GRADE: Amphibolite RELATIONSHIP:

COMMENTS: Showing is immediately west of the southern Rocky Mountain Trench.

**CAPSULE GEOLOGY** 

The Albreda showing is located about 6.5 kilometres north-northwest of the Albreda Station on the Canadian National

Railway from Kamloops to Tete Jaune Cache and Jasper.

Little information is available for this occurrence except boulders of mica-garnet schist containing a fairly high proportion of bladed kyanite are exposed in railway cuttings for about half a mile in the vicinity of Albreda (Minister of Mines Annual Report 1947). It is not known whether there are nearby exposures hosted in within pelite/schist units of the metasediments themselves or in pegmatite dykes within enclosing metasediments. A claim group of four claims, the Dec Grid, was reported by the Mits Development Co. Ltd. in June 1978 and is assumed to cover the previously described kyanite bearing

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### **CAPSULE GEOLOGY**

boulders.

The Canoe River map area is predominantly underlain by a folded sequence of Hadrynian metasedimentary strata, belonging to the Horsethief Creek and Kaza groups and their basement gneisses. Horsethief Creek Group strata in the Canoe River area are locally sufficiently pelitic to produce abundant aluminosilicate minerals (kyanite) when subject to high grade regional metamorphism (Open File 1988-26). The metamorphic grade is dominantly within the kyanite stability field of amphibolite grade. The age of the main metamorphic event in the area is Early Cretaceous (135+/-4 Ma) (Geological Survey of Canada Paper 90-1E, pp 71-80). Further information on temperatures and pressures are given in the Canoe South Mica occurrence (083D 017).

Recent geologic mapping of the area by Walker (1989) suggests this region consists of an overturned north-facing metasedimentary package. Host rocks of the showing are interpreted as Hadrynian lower Kaza Group, consisting predominantly of biotite-muscovite-rich pelites, with lesser coarse grits and psammites and minor amphibolite and semipelite (Geological Survey of Canada Paper 89-1E, pp. 101-107).

Alternatively, Murphy (1990) interprets these rocks as belonging to the Semipelite-Amphibolite division of the Hadrynian Horsethief Creek Group, which he has subdivided into six regional mappable units. The lower two of these units host the Albreda mica occurrence. The basal unit consists of thin to medium bedded, flaggy, quartz-biotite- plagicclase psammite, stratiform amphibolite schist, massive conformable garnet amphibolite and kyanite-staurolite-garnet-muscovite-biotite-quartz-plagicclase schist (locally with quartzofeldspathic knots and laminae). The overlying unit consists of pelitic schists with minor psammite laced with quartzofeldspathic stringers lending the appearance of migmatite (Geological Survey of Canada Paper 90-1E, pp 71-80). Refer to the Canoe South Mica showing (083D 017) for additional comments on the regional structure.

Pegmatite bodies, ranging in thickness from 3 centimetres to 3 metres are present throughout the area. These consist of coarse grained plagioclase, quartz and muscovite with minor garnet. Some bodies are transposed and deformed with host lithologies, whereas others crosscut foliation and folds of host lithologies, therefore representing different generations (Geological Survey of Canada Paper 89-1E). It is not known whether any of these pegmatites host mica of commercial quality.

### **BIBLIOGRAPHY**

EMPR AR 1915-K54-K55; 1920-N95-N96; 1931-A148-A149; \*1947-A215-A216 1952-A258

EMPR OF \*1988-26

GSC EC GEOL No. 19, pp. 83-84

GSC MAP 15-1967; 1339A

GSC OF 2324

GSC P \*89-1E, pp. 101-107; \*90-1E, pp. 71-80

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MINFILE NUMBER: 083D 019

NATIONAL MINERAL INVENTORY:

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UTM ZONE: 11 (NAD 83)

NORTHING: 5864060 EASTING: 328709

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1196

NAME(S): MICA MOUNTAIN, BARRON 1-4, BONANZA GROUP, BONANZA, PREMIER, MINNIE SMITH, DREADNOT, ADVENTURE, BOULDER, MAMMOTH, MICA, TETE JAUNE, RELIANCE CLAIM GRP.

MINING DIVISION: Cariboo

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D13E

BC MAP:

LATITUDE: LATITUDE: 52 53 56 N LONGITUDE: 119 32 48 W

ELEVATION: 2316 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main sill located at the centre of the Barron claim group (Assessment

Report 276).

COMMODITIES: Mica **Kyanite** Beryllium

**MINERALS** 

SIGNIFICANT: Mica Muscovite **Kyanite** Beryl

COMMENTS: The age of post-phase 3 deformation (D3) pegmatites is 125+/-7 Ma and pre-phase 3 deformation (D3) pegmatites 154+/-6 Ma (Geological Survey of Canada Paper 90-1E, pp. 71-80).

ASSOCIATED: Quartz Felo MINERALIZATION AGE: Lower Cretaceous Feldspar Garnet Tourmaline Apatite

ISOTOPIC AGE: 125 +/- 7 Ma DATING METHOD: Unknown MATERIAL DATED: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant Discordant Disseminated

CLASSIFICATION: Pegmatite Industrial Min.

TYPE: 003 Muscovite pegmatite P02 Kyanite-sillimanite schists

SHAPE: Irregular

x 23 DIMENSION: 152 STRIKE/DIP: 135/35S TREND/PLUNGE: Metres

COMMENTS: Orientation of pegmatite on the Reliance claim group is 135/30-40SW (EMPR AR 1920). Dimensions are for pegmatite on the Bonanza claim (EMPR IND MIN FILE; Report by J.M. Cummings, 1941).

HOST ROCK DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Kaza

Hadrynian Undefined Formation Protérozoic-Paleoz.

Shuswap Metamorphic Complex

LITHOLOGY: Pegmatite Dike

Pegmatite Sill Garnet Mica Schist Quartz Mica Schist Quartz Feldspar Mica Schist

Pelitic Schist

HOSTROCK COMMENTS: Mica Mountain occurrence is located on the northeastern margin of the

Shuswap Metamorphic Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional Ancestral North America

RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

Post-mineralization COMMENTS: Showing is immediately west of southern Rocky Mountain Trench.

CAPSULE GEOLOGY

The Mica Mountain showing is located on the northern and eastern flanks of Mica Mountain between 2072 and 2487 metres, Tete Jaune

Cache is approximately 10 kilometres to the northeast.

Mica Mountain has a long history of mica and lesser kyanite prospecting and exploration recorded as far back as 1898. At various times a number of attempts have been made to develop properties on Mica Mountain, but the showings to date contain too low a proportion of sheet mica of marketable grade to permit profitable operation (Minister of Mines Annual Report 1947). Work on these claims consisted primarily of short adits, winces and trenches along and into

pegmatite bodies. Mica at these old showings is hosted in pegmatite dykes and

sills. Sills are transposed and deformed with host lithologies, whereas dykes crosscut foliation and folds of host rocks. Based on

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### **CAPSULE GEOLOGY**

crosscutting relations, pegmatite bodies were intruded prior to and after phase three deformation. Phase three deformation consists of variable developed crenulation cleavages on a micro and mesoscopic scale and open to tight, isoclinal folds (coaxial with phase two folds) on a meso and megascopic scale. These later pegmatites have small apophyses into host lithologies, which show no evidence of strain. Pegmatites are hosted in pelitic schists of the Hadrynian lower Kaza Group. Schists are largely mica-garnet, quartz-mica, quartz-feldspar-mica in composition. Other lithologies of the lower Kaza Group include psammite, amphibolite, marble and calc-silicate. The Canoe South Mica showing (083D 017) contains a more detailed description of the regional deformation and conditions of metamorphism in the area.

The age of pegmatites has been determined as being 154+/-6 Ma and 125+/-7 Ma for pre and post phase three deformation pegmatites, respectively.

Quartz, feldspar and muscovite comprise the main constituents of the pegmatites. Accessories include garnet, tourmaline, kyanite, beryl and apatite. Pegmatites are commonly irregular and lens-like bodies, most frequently oriented 135 degrees and dipping 30 to 40 degrees to the southwest. Textures within these bodies vary greatly with only certain mica bands large enough to be of commercial value (Minister of Mines Annual Report 1920). Where muscovite is of good quality, it is light brown to light greenish and occurs in well formed booklets ranging from 10 by 10 by 1.25 centimetres to 45 by 30 by 5 centimetres; however, the quantities in any one pegmatite is not unusually high (Geological Survey of Canada Economic Geology Report No. 19). In certain pegmatites, muscovite was noted to be the best quality and of the greatest abundance in small pockets near the hanging wall (Minister of Mines Annual Reports 1899, 1913). Elsewhere, quality muscovite was observed concentrated in bands up to 1.5 metres wide on either side of the hanging or foot walls (Assessment Report 276).

Beryl was reported in pegmatite on the Bonanza property on Mica Mountain by McEvoy (Minister of Mines Annual Report 1898) and deScmid (Minister of Mines Annual Report 1913). Lay (Minister of Mines Annual Report 1928) found no trace of beryl or any other unusual accessory mineral. But a composite sample was reported (GSC spetrographic analyses) to contain less than 0.01 per cent beryllium (Geological Survey of Canada, Economic Geology Report No. 23).

### **BIBLIOGRAPHY**

EMPR AR 1888-313; 1893-80A-81A; \*1898-39; 1912-K52-K53; \*1913-K59; 1914-K56-K57; 1915-K54-K55; \*1920-N95-N96; 1921-N95,N96; 1924-152; \*1928-C188-C189; 1931-A148-A149; \*1947-A215-A216,A220 EMPR ASS RPT \*276 EMPR OF 1988-26 EMPR PF (\*Report on the Bonanza Mica Property, Mica Mtn., Tete Jaune, B.C., J.M. Cummings, 1941) GSC EC GEOL \*No. 19, pp. 83-84,90; \*No. 23, pp. 58, 60 GSC MAP 15-1967, 1339A GSC OF 2324 GSC P \*60-21, p. 9; 89-1E, pp. 101-107; 90-1E, pp. 71-80

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 020

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Revelstoke

UTM ZONE: 11 (NAD 83)

NORTHING: 5765109

EASTING: 392132

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1198

NAME(S): HIGHWAY DEPOSIT LOWER SHOWING, HIGHWAY DEPOSIT UPPER SHOWING, MICA CREEK, MICA WONDER GROUP, COLUMBIA GROUP, MICA CREEK FIRST FORK,

MICA CREEK SECOND FORK, POTLATCH CREEK, FRED LAING RIDGE

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D02E 083D01W

BC MAP:

LATITUDE: 52 01 34 N LONGITUDE: 118 34 20 W ELEVATION: 725 Metres LOCATION ACCURACY: Within 500M Metres

COMMENTS: Mica-bearing pegmatite dyke at the Highway Deposit Lower Showing

(Newmarch, 1942).

COMMODITIES: Mica Kvanite

**MINERALS** 

SIGNIFICANT: Muscovite ASSOCIATED: Biotite **Kyanite** Tourmaline Quartz Feldspar

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Discordant Stratiform Layered

CLASSIFICATION: Pegmatite Metamorphic Industrial Min. O03 Muscovite pegmatite

TYPE: P02 SHAPE: Tabular Kyanite-sillimanite schists

MODIFIER: Faulted

DIMENSION: Metres STRIKE/DIP: 065/90

COMMENTS: Strike and dip are for mica-bearing pegmatite dyke at the Highway

Deposit Lower Showing (Newmarch, 1942). Mica booklets occur over a

**FORMATION** 

Unnamed/Unknown Formation

1.2 metre square area in a 1.2 metre wide pegmatitie dyke.

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

TRATIGRAPHIC AGE GROUP Horsethief Creek Hadrynian

LITHOLOGY: Kyanite Garnet Mica Schist Micaceous Pegmatite Dike Micaceous Pegmatite Sill

Pelite Semi Pelite Marble Gneiss

HOSTROCK COMMENTS: Mica is found in micaceous pegmatite dykes and sills and with kyanite

and garnet within the Lower Pelite unit (GSC OF 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Selkirk Mountains

RELATIONSHIP: Post-mineralization GRADE: Amphibolite

Syn-mineralization

Garnet

CAPSULE GEOLOGY

The Highway Deposit Lower Showing is one of many micaceous pegmatite dyke and sill occurrences in an area covering both slopes of Fred Laing Ridge including the northerly flowing tributaries of Potlatch Creek, the southerly flowing tributaries of Mica Creek and portions of the valley bottom of the main Mica Creek (Newmarch, 1942). 1942). Pegmatites, as large semi-concordant bodies, are abundant along the contact between the Semipelite and Pelite units of the Hadrynian Horsethief Creek Group. Distribution within the northern Semipelite unit is sporadic. A common association with marble was noticed along a southeast trending ridge 3 kilometres south-southwest of Warsaw Mountain.

At least two generations of pegmatites occur in this area. Earlier generation pegmatites are concordant and boudinaged within enclosing semipelite units. Younger generation pegmatites crosscut layering and schistosity. Pegmatite dykes and sills in the area range from 0.90 to 9.0 metres in width, with thick pegmatites usually discordant. Orientations are also highly variable.

All pegmatites are plagioclase-rich, typically consisting of 70 per cent plagioclase, 20 per cent muscovite and 10 per cent quartz. Plagioclase is often strained and well twinned (Mitchell, 1976). Mica within these dykes and sills range from 5 to 20 per cent by rock

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

volume and in size from 0.32 to 8.9 centimetres diameter and 5.0 centimetres thick. Mica booklets often show evidence of internal strain. Minerals associated with mica are almandine garnet and black tourmaline (Newmarch, 1942). For a detailed description of the regional geology refer to the Warsaw Mountain showing (083D 041).

At the Highway Deposit Lower Showing, mica booklets 7.62 by 7.62 centimetres, appear to be concentrated in an area of about 120 square centimetres in a 1.22-metre wide pegmatite dyke. This zone consists of 20 per cent muscovite by rock volume. This mica-bearing pegmatite dyke strikes 065 degrees and dips vertically.

A 0.635-centimetre band of kyanite is found in the enclosing schists. In the lower reaches of Mica Creek kyanite forms bands within schists. At the headwaters of the first and second tributaries of Mica Creek kyanite is present in localized pelitic horizons near the base of the Semipelite-Amphibolite division (Geological Society of America Memoir 153), the Aluminous Pelite unit (Open File 1988-26) or Lower Pelite unit (Geological Survey of Canada Open File 2324) of the Horsethief Creek Group. Kyanite porphyroblasts in these horizons are up to 5 centimetres in length.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 021

NATIONAL MINERAL INVENTORY:

NAME(S): POTLATCH, COLUMBIA RIVER BIG BEND

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D01W BC MAP:

MINING DIVISION: Revelstoke UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1200

LATITUDE: 52 04 00 N

NORTHING: 5769470 EASTING: 399389

LONGITUDE: 118 28 04 W ELEVATION: 1584 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Kyanite in schist and pegmatite is found six kilometres southwest of Boat Encampment (Mitchell, 1976).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Muscovite

Plagioclase Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Pegmatite Industri TYPE: P02 Kyanite-sillimanite schists Industrial Min.

SHAPE: Tabular DIMENSION:

STRIKE/DIP: 123/20 TREND/PLUNGE:

COMMENTS: Strike and dip is of the prominent foliation (Geological Survey of

Canada Open File 2324).

HOST ROCK

Hadrynian

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Pelite

Pelitic Schist

Horsethief Creek

Quartz Mica Pegmatite Quartzofeldspathic Psammite

Conglomerate Amphibolite

HOSTROCK COMMENTS: Kyanite is found in pegmatites and pelites within the Aluminous Pelite unit (EMPR OF 1988-26) or equivalent Lower Pelite unit (GSC OF 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Selkirk Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Potlatch occurrence is located on a northwest trending ridge 6.0 kilometres northwest from Warsaw Mountain on the northeast side of Potlatch Creek.

The area is underlain primarily by metasedimentary rocks of the Hadrynian Horsethief Creek Group. For a more detailed description of the regional geological settings refer to the Warsaw Mountain occurrence (083D 041).

At least two generations of pegmatites occur in this area. Earlier generation pegmatites are concordant and boudinaged within enclosing pelitic schist units. Younger generation pegmatites crosscut layering and schistosity. Pegmatite dykes and sills in the area range from 0.90 to 9.0 metres in width, with thick pegmatites usually discordant. Orientations are also highly variable.

At the Potlatch occurrence, kyanite is present in pegmatites hosted in the Aluminous Pelite unit (Open File 1988-26) or equivalent Lower Pelite unit (Geological Survey of Canada Open File 2324) of the Horsethief Creek Group. The Aluminous Pelite or Lower Pelite unit consists of pelitic schist, quartzofeldspathic psammite, conglomerate with clasts of marble, calc-silicate rock, quartzite and granite, and concordant and discordant amphibolite.

All pegmatites are plagioclase-rich, typically consisting of 70 per cent plagioclase, 20 per cent muscovite and 10 per cent quartz. Plagioclase is often strained and well twinned (Mitchell, 1976). Kyanite crystals are found in a pegmatite matrix of quartz and mica and in surrounding pelitic schists.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1991/12/09 CODED BY: GSB REVISED BY: KJM FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 083D 021

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 022

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1202

NAME(S): PARADISE SYENITE PARADISE, AR 1-4, AR 4, PARADISE LAKE

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D06E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 52 23 01 N LONGITUDE: 119 05 23 W NORTHING: 5805761 EASTING: 357777

ELEVATION: 2286 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of outcrop (figure 24a, page 90, Fieldwork 1984).

COMMODITIES: Nepheline Syenite Sodalite Niobium Tantalum Uranium

Disseminated

Rare Earths

**MINERALS** 

SIGNIFICANT: Nepheline Sodalite Pyrochlore Pyrrhotite

COMMENTS: Refer to capsule geology for a detailed mineralogy.

SSOCIATED: Microcline Plagioclase Biotite Muscovite ASSOCIATED: Microcline Cancrinite

Zircon Perthite Calcite

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

MINERALIZATION AGE: Devonian-Mississipp. ISOTOPIC AGE: 340 Ma

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Magmatic Industrial Min. N01 Carbonatite-hosted deposits

TYPE: R13 Nepheline syenite

SHAPE: Tabular MODIFIER: Folded

Faulted **DIMENSION: 5** Metres STRIKE/DIP: 120/22S

Concordant

TREND/PLUNGE: COMMENTS: Zircons separated from the Paradise Lake syenites provided slightly

discordant analyses which suggest a uranium-lead age of 340 Ma and

lead-lead ages of 351 and 363 Ma (Bulletin 86, in press).

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hadrynian Horsethief Creek Undefined Formation

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Nepheline Syenite Gneiss

Sodalite Syenite Gneiss Calcareous Syenite Gneiss Quartz Hornblende Mica Schist

Carbonatite Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Monashee Mountains

Monashee

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Amphibolite

COMMENTS: Syenites are associated with carbonatites in central (Omenica) belt.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock Assay/analysis YEAR: 1987

COMMODITY **GRADE** 

Per cent COMMENTS: Value is from nepheline and sodalite syenite sample.

REFERENCE: Open File 1987-17.

CAPSULE GEOLOGY

The Paradise Syenite showing is located approximately  $4.5\,$ 

kilometres east of the Verity carbonatite showing (083D 005). Blue River is 45 kilometres to the south along Highway 5. This showing is only accessible by helicopter support from Valemount or Blue River,

as no trail exists in to the area from lower elevations.

A nepheline syenite gneiss complex crops out east and north of the Paradise carbonatite showing (083D 006) but lies stratigraphically below carbonatite. The syenite complex occurs as

sills within quartz-hornblende-mica schist of the Semipelite

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

Amphibolite Division of the Hadrynian Horsethief Creek Group. In general, the syenites are composed of grey weathering, medium grained, layered and foliated gneisses. They are locally migmatitic, with massive, medium to coarse grained, lensoidal leucosomes.

Exposures of carbonatite occur with high grade metasediments on the north face of Paradise Mountain, immediately south of Paradise Lake and along the ridge to the northwest, on both sides. The relationship between syenite and carbonatite is unknown due to structural complications but a uranium/lead isotopic age of 340 Ma from a zircon separate, suggests that they are penecontemporaneous intrusives of Devono-Mississippian (circa 350 Ma) age (Bulletin 86, in press). The regional foliation generally strikes 120 degrees and dips 15 to 30 degrees southwest. Two major orientations of faults occur locally with the more prominent striking 345 degrees and dipping steeply to the west. Motion on these faults is west side down. The other strikes east-west dipping near vertical. Structures to the north and northeast of Paradise indicate the area has undergone regional doming.

The major constituents of the syenite are: microcline, plagioclase, nepheline and biotite. Accessory minerals include muscovite, sodalite, cancranite, zircon and perthite. Trace minerals present are: calcite, magnetite, pyrrhotite, pyrochlore and uranopyrochlore (Open File 1987-17). Maximum thickness of nepheline syenite outcrops is 3.65 to 4.56 metres. Syenite is locally associated with amphibolite. In the cirque above Paradise Lake, synclinally folded nepheline syenite has black amphibolite in the core. On the west wall of the cirque and to the east above the cirque, nepheline syenite structurally overlies and is in contact with amphibolite. A boulder in talus contained biotite-rich sovite in nepheline syenite. Directly below the nepheline complex is a zone of pegmatite sill-like bodies consisting of feldspar, quartz and muscovite. At one exposure, the upper contact was observed to be discordant with the enclosing schist, where schist formed small folds up to 6 metres across.

The nepheline syenite has a low Sr87/Sr86 ratio of 0.7047 +/- 0.0004. This low ratio indicates a probable sub-crustal origin (Assessment Report 1630). Chemical analyses of trace and rare earth elements of a nepheline-sodalite syenite is as follows (in per cent): 0.0011 tantalum, 0.091 strontium, 0.00023 thorium, 0.1330 zirconium, 0.0001 lanthanum and cerium, 0.00019 neodynium, 0.00006 ytterbium and 0.00001 scandium (Open File 1987-17).

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DATE CODED: 1991/11/08 CODED BY: KJM FIELD CHECK: N
DATE REVISED: 1991/11/08 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 023

NATIONAL MINERAL INVENTORY:

NAME(S): HOWARD CREEK SYENITE, HOWARD CREEK, TOP 1-4, TOP 1, 7803, 7804

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D07W

BC MAP:

LATITUDE: LONGITUDE: 118 51 54 W

ELEVATION: 2420 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Nepheline syenite outcrop #35 (figure 26, Fieldwork 1984).

COMMODITIES: Nepheline Syenite

Sodalite

Niobium

Pyrrhotite

Tantalum

MATERIAL DATED:

Carbonatite-hosted deposits

Uranium

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5804694 EASTING: 373053

REPORT: RGEN0100

1204

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Nepheline COMMENTS: Refer to capsule geology for a detailed mineralogy. ASSOCIATED: Microcline

Zircon

Sodalite

Plagioclase

Concordant

Pyrochlore **Biotite** 

Muscovite

Cancrinite

NO1

MINERALIZATION AGE: Devonian-Mississipp.

ISOTOPIC AGE: circa 350 Ma.

Perthite DATING METHOD:

Disseminated

CHARACTER: Stratiform

CLASSIFICATION: Magmatic Industrial Min. TYPE: R13 SHAPE: Tabular

Nepheline syenite

MODIFIER: Folded Faulted

DIMENSION: 20 x 5 Metres

STRIKE/DIP: 120/22S COMMENTS: Zircons separated from the Paradise Lake syenites provided slightly

discordant analyses which suggest a uranium-lead age of 340 Ma and lead-lead ages of 351 and 363 Ma (Bulletin 86, in press).

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE Hadrynian

<u>GROUP</u>

Horsethief Creek

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

TREND/PLUNGE:

Undefined Formation

Protérozoic-Paleoz.

LITHOLOGY: Nepheline Syenite Gneiss Sodalite Svenite Gneiss Calcareous Syenite Gneiss Quartz Hornblende Mica Schist

Carbonatite

Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

TERRANE: Kootenay METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization COMMENTS: Syenites are associated with carbonatites in central (Omenica) belt.

PHYSIOGRAPHIC AREA: Monashee Mountains

GRADE: Amphibolite

CAPSULE GEOLOGY

The Howard Creek Syenite showing is located at the headwaters of Howard Creek, 13 kilometres west of McNaughton Lake and 41 kilometres northeast of Blue River. The Verity carbonatite showing (083D 005) northeast of Blue River. The Verity carbonatite showing (083D 005) lies approximately 4.5 kilometres to the east. This showing is only accessible by helicopter support from Valemount or Blue River, as no trail exists in to the area from lower elevations.

A nepheline syenite gneiss outcrop, measuring 5 by 20 metres, occurs in a south-facing cirque, adjacent to the Howard Creek carbonatite showing (083D 043). The syenite gneiss occurs as a sill within quartz-hornblende-mica schist of the Semipelite Amphibolite division of the Hadrynian Horsethief Creek Group. The syenite is composed of grey weathering, medium grained, layered and foliated gneiss. It is locally migmatitic, with massive, medium to coarse grained, lensoidal leucosomes.

The relationship between syenite and carbonatite is unknown due to structural complications but a slightly discordant uranium/lead isotopic age of 340 Ma and lead/lead ages of 351 and 363 Ma suggest that they are penecontemporaneous intrusives of Devono-Mississippian (circa 350 Ma) age (Bulletin 86, in press). The regional foliation generally strikes 120 degrees and dips 15 to 30 degrees southwest. Two major orientations of faults occur locally with the more

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

prominent striking 345 degrees and dipping steeply to the west. Motion on these faults is west side down. The other orientation strikes east-west dipping near vertical. Structures to the north and northwest of Howard Creek indicate the area has undergone regional doming.

The major constituents of the syenite are: microcline, plagioclase, nepheline and biotite. Accessory minerals include muscovite, sodalite, cancranite, zircon and perthite. Trace minerals present are: calcite, magnetite, pyrrhotite, pyrochlore and uranopyrochlore (Open File 1987-17).

Strontium content of the nepheline syenite is 0.070 percent (Fieldwork 1984).

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DATE CODED: 1991/11/08 CODED BY: KJM FIELD CHECK: N
DATE REVISED: 1991/11/08 REVISED BY: KJM FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 024

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

1206

NAME(S): MILEDGE RIVER, THUNDER RIVER, NORTH THOMPSON RIVER

STATUS: Showing MINING DIVISION: Kamloops REGIONS: British Columbia

LATITUDE: 52 20 00 N NORTHING: 5800679

LONGITUDE: 119 20 04 W EASTING: 340943

FLEVATION: Metres

ELEVATION: Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: The northern of two west-northwest striking bands present; location

data for the center of the northern band (area 2, figure 5, Open

File 1988-26).

COMMODITIES: Kyanite Garnet

**MINERALS** 

SIGNIFICANT: Kyanite Garnet
ASSOCIATED: Sillimanite Biotite Quartz
MINERALIZATION AGE: Lower Cretaceous

MINERALIZATION AGE: Lower Cretaceous
ISOTOPIC AGE: 135 +/- 4 Ma

DATING METHOD: Unknown

MATERIAL DATED: Unknown

DEPOSIT

CHARACTER: Vein

Layered

Stratabound

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular

MODIFIER: Folded COMMENTS: The age of mineralization is for the main metamorphic event

(Geological Survey of Canada Paper 90-1E, pp. 71-80).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Hadrynian Horsethief Creek Undefined Formation Hadrynian Kaza Undefined Formation

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Pelitic Schist

Quartzofeldspathic Psammite

Amphibolite
Marble
Calc-silicate
Diamictite
Conglomerate
Quartzite

Quartzofeldspathic Grit Graphitic Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay Barkerville
METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

COMMENTS: Showing is on the northeastern margin of Shuswap Metamorphic Complex.

**CAPSULE GEOLOGY** 

The Canoe River map area is predominantly underlain by a sequence of folded Hadrynian metasedimentary strata, belonging to the Windermere Supergroup (Miette, Horsethief Creek and Kaza groups) and their basement gneisses. Lithologies of the lower Kaza Group include pelitic schist (locally kyanite-sillimanite-staurolite-garnet-biotite and/or muscovite-bearing), amphibolite, marble, calc-silicate, diamictite, conglomerate and quartzite. Quartzofeldspathic psammite and grit, pelitic schist, amphibolite and graphitic phyllite comprise lithologies of the Upper Clastic division of the Horsethief Creek

Strata of the lower Kaza and Horsethief Creek groups in the Canoe River area are locally sufficiently pelitic to produce abundant garnet and aluminosilicate minerals when subjected to high-grade regional metamorphism (Open File 1988-26).

In the southeastern Cariboo Mountains, approximately 30 kilometres southwest of Valemount, pelitic schists locally contain up to 20 per cent kyanite, up to 15 per cent fibrolitic sillimanite and up to 25 per cent garnet (Pell, 1984). Kyanite grains are commonly in excess of 2 centimetres in length. These extremely aluminous pelitic

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

strata are largely confined between a carbonate marker horizon in the lower Kaza Group and the Middle Marble division of the underlying Horsethief Creek Group. Less commonly, aluminous pelitic horizons are present in the Horsethief Creek Group Semipelite-Amphibolite division, immediately underlying the Middle Marble Division. Pelitic schists in this region also frequently contain quartz-kyanite-rich segregation lenses.

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Pell, J. (1984): \*Stratigraphy, structure and metamorphism of
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 DATE CODED:
 1991/11/21
 CODED BY:
 KJM
 FIELD CHECK:
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 DATE REVISED:
 1991/11/21
 REVISED BY:
 KJM
 FIELD CHECK:
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MINFILE NUMBER: 083D 024

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 025

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5841287

EASTING: 303561

REPORT: RGEN0100

Copper

1208

NAME(S): BLUE ICE (W ZONE), BLUE ICE, BLUE LEAD, BLE ICE (E ZONE), BLE ICE (SE ZONE), WELLS,

**GLACIER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083D12W

BC MAP: LATITUDE: 52 41 09 N

LONGITUDE: 119 54 23 W ELEVATION: 1829 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location is for lenses of conformable quartz in contact with limestone

(from figures 1 and 3, Minister of Mines Annual Report 1938).

COMMODITIES: Gold Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Chalcopyrite Pyrite

Siderite ALTERATION: Sericite

COMMENTS: There is sericitic alteration (Minister of Mines Annual Report 1938).

ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated Stockwork Discordant

CLASSIFICATION: Hydrothermal Epigenetic Replacement

TYPE: EÓ3 Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular

DIMENSION: 140 x 36 STRIKE/DIP: 330/ TREND/PLUNGE: Metres

COMMENTS: Total exposed length of complex quartz veining in quartzite is 140 metres and maximum width of 36 metres. Short tension gashes align on

330 degree trend (Minister of Mines Annual Report 1938).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Kaza Undefined Formation

Hadrynian Cariboo Isaac

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Massive Quartzite

Limestone

Quartz Sericite Schist Quartz Pebble Conglomerate Phyllite

Argillite

Quartzofeldspathic Psammite

Slate

Grit

Late Proterozoic (Hadrynian) strata were deposited at some time during the time interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Cariboo Mountains TECTONIC BELT: Cariboo

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

Amphibolite

COMMENTS: Located near contact between the upper Kaza Group and Isaac Formation.

INVENTORY

ORE ZONE: WEST REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929

SAMPLE TYPE:

COMMODITY Silver 96.0000 Grams per tonne 3.0800 Gold Grams per tonne Lead 0.4000 Per cent

Zinc 3.2000 Per cent COMMENTS: Chip sample of mineralized quartz confined to seams parallel to

fracturing.

REFERENCE: Minister of Mines Annual Report 1929.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years due to the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. Mineralization of the Blue Ice claim group is located at the headwaters of Hobson (Fred Wells) Creek.

The Blue Ice claim group lies near the contact between the Hadrynian upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The ground covering the Blue Ice claim group mineralization is on the crest and northeast limb of a major anticline which plunges at a low angle to the northwest. The country rocks, striking 255 degrees, consist of massive quartzite, quartz pebble conglomerate, quartz-sericite schist, phyllite, argillite and limestone, of the Isaac Formation. Lithologies of the Hadrynian upper Kaza Group consist of

quartzofeldspathic psammite, phyllite, slate and minor grit.

Mineral occurrences at the head of Hobson Creek are found in zones of fracturing, crosscutting host rocks at an oblique angle. Lenticular quartz bodies consisting of white quartz host pyrite, galena and chalcopyrite, sphalerite and arsenopyrite, at points where these bodies intersect cross fracturing striking 300 degrees. Quartz veins hosted in fractures are also mineralized. Most are narrow, irregular stockworks or sets of short quartz-filled cracks and tension gashes approximately perpendicular to bedding. Siderite is a common accessory in quartz veins. Mineralization locally extends into interbedded limestone bands, forming massive sulphide replacement.

The Blue Ice W Zone is located partially beneath the toe of a glacier. This zone consists of complex quartz veining in quartzite over a total exposed length of 140 metres and a maximum width of 36 metres. The zone is bound to the southwest by a limestone band, which can be traced to the northeast over 46 metres where it is covered by glacial moraine. Quartz veins and lenses strike 015 degrees or more commonly quartz filled tension gashes align 330 degrees. Quartz comprises 20 per cent by rock volume of the entire zone. Of this 50 per cent is mineralized with galena, sphalerite, chalcopyrite and pyrite. This mineralization is confined to quartz seams parallel to fracturing. Sulphide mineralization is also found disseminated within host sericitic schist up to several feet from quartz bodies. There is sericitic alteration.

A general chip sample of mineralized quartz sampled assayed 3.08 grams per tonne gold, 96.00 grams per tonne silver, 0.4 per cent lead and 3.2 per cent zinc (Minister of Mines Annual Report 1929). Seven sample were taken from this zone in 1939, of which 2 assayed as follows: the first, quartz with 3 to 5 per cent mineralization, 0.68 grams per tonne gold and 6.8 grams per tonne silver; the second, mineralized stringers in host schist, 49.37 grams per tonne gold and 54.86 grams per tonne silver (Minister of Mines Annual Report 1938). Please refer to 083D 003 (Blue Ice (SE zone)) for more

information.

# **BIBLIOGRAPHY**

EMPR AR 1919-N179; 1920-N168; 1923-A157; 1925-A171; 1926-A189; 1927-C192; \*1929-C221; 1930-A193; 1931-A107; \*1933-A194; \*1938-D3-D17; 1939-107 EMPR BULL 1, p. 69 EMPR PF (Report by N.E. Nelson, 1936) GSC MAP 15-1967; 1339A GSC OF 2324 GSC P 86-1A, pp. 589-594; 87-1A, pp. 735-742 GSC SUM RPT 1926A; 1929A CJES Vol. 14, No. 7, pp. 1690-1695; Vol. 24, No. 2, pp. 302-313

DATE CODED: 1991/11/29 DATE REVISED: 1991/11/29 CODED BY: KJM REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 026

NATIONAL MINERAL INVENTORY:

NAME(S): BLUE ICE (E ZONE), BLUE ICE, BLUE LEAD, BLUE ICE (W ZONE), BLE ICE (SE ZONE), WELLS,

**GLACIER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083D12W

BC MAP: LATITUDE: 52 40 55 N LONGITUDE: 119 53 48 W

ELEVATION: 2073 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The zone is 76 metres long, intersected by cross fractures and with development of a number of quartz bodies, aggregating 7.3 metres in width (Minister of Mines Annual Report 1929).

COMMODITIES: Gold

Silver

Lead

7inc

Copper

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5840828

EASTING: 304200

REPORT: RGEN0100

1210

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Chalcopyrite

Pyrite

ASSOCIATED: Quartz

Siderite

COMMENTS: Siderite partially comprises carbonate gangue in main replacement body

(Minister of Mines Annual Report 1938).

ALTERATION: Sericite

COMMENTS: Sericitic alteration occurs in other quartz bodies on the Blue Ice

claim group. ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Stockwork

Shear Replacement Massive

TYPE: E03 DIMENSION: 33

Epigenetic Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular

Metres

STRIKE/DIP: 015/

COMMENTS: A section of limestone band, 267 metres long, continuously exposed,

is heavily mineralized and forms a replacement body 5.7 metres wide by

33 metrés long (Minister of Mines Annual Report 1938).

HOST ROCK

Hadrynian

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hadrynian

GROUP Kaza Cariboo

x 6

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

TREND/PLUNGE:

Protérozoic-Paleoz.

LITHOLOGY: Massive Quartzite

Limestone

Quartz Sericite Schist Quartz Pebble Conglomerate

Phyllite Argillite

Quartzofeldspathic Psammite

Slate

Grit

HOSTROCK COMMENTS:

Late Proterozoic (Hadrynian) strata were deposited at some time during

the time interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay

METAMORPHIC TYPE: Regional

Cariboo RELATIONSHIP: PHYSIOGRAPHIC AREA: Cariboo Mountains

GRADE: Greenschist

Amphibolite

COMMENTS: Located near contact between upper Kaza Group and Isaac Formation.

INVENTORY

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

\_\_\_\_\_\_

ORE ZONE: EAST

REPORT ON: N

YEAR: 1929

CATEGORY: Assay/analysis SAMPLE TYPE: Grab COMMODITY GRADE

COMMENTS: Combined assay results from two samples: one quartz and galena, the other quartz and sphalerite, from quartz lenses in fracture system.

REFERENCE: Minister of Mines Annual Report 1929.

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years due to the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. Mineralization on the Blue Ice claim group is located at the headwaters of Hobson (Fred Wells) Creek.

The Blue Ice claim group lies near the contact between the Hadrynian upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The ground covering the Blue Ice claim group mineralization is on the crest and northeast limb of a major anticline which plunges at a low angle to the northwest. The country rocks, striking 255 degrees, consist of massive quartzite, quartz pebble conglomerate, quartz-sericite schist, phyllite, argillite and limestone, of the Isaac Formation. Lithologies of the Hadrynian upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit.

Mineral occurrences at the head of Hobson Creek are found in

Mineral occurrences at the head of Hobson Creek are found in zones of fracturing, crosscutting host rocks at an oblique angle. Lenticular quartz bodies consisting of white quartz host pyrite, galena and chalcopyrite, sphalerite and arsenopyrite, at points where these bodies intersect cross fracturing striking 300 degrees. Quartz veins hosted in fractures are also mineralized. Most are narrow, irregular stockworks or sets of short quartz-filled cracks and tension gashes approximately perpendicular to bedding. Siderite is a common accessory in quartz veins. Mineralization locally extends into interbedded limestone bands, forming massive sulphide replacement.

The East Zone is located under the southern flank of the foot of a glacier occupying the divide between Hobson Creek and the pass at the head of the Azure River. Here, a zone 76 metres wide, intersected by cross fractures and the development of a number of quartz bodies, aggregating 61 to 91 metres long by 7.3 metres wide.

Erratic mineralization consists of pyrite, galena, sphalerite and chalcopyrite and is found in three different orientations of quartz fissures but most commonly 010 to 020 degrees. Mineralization, predominantly pyrite, is semi-massive in some veins over widths of 5 to 60 centimetres and lengths up to 6 metres. Of six samples taken from this area in 1938, one of quartz with 60 per cent pyrite assayed 22.6 grams per tonne gold and 154.3 grams per tonne silver (Minister of Mines Annual Report 1938). Combined assay results from two samples taken in 1929 were 13.7 grams per tonne gold, 212.6 grams per tonne silver, 7 per cent lead and 10 per cent zinc (Minister of Mines Annual Report 1929).

Also at this showing, a continuous exposure of limestone, 267 metres long, is heavily mineralized with primarily pyrite forming a replacement body 33.5 metres long by 5.79 metres wide. Replacement mineralization seems definitely related to small pyrite-carbonate-bearing bodies in cross fissures in quartzite. In the main replacement body, sulphides occur in carbonate gangue, partially composed of siderite. The margins of this replacement body are definite. Pyrite comprises 50 to 90 per cent of the mass, varying in coarseness from a fine sugary texture to cubes 2.5 centimetres or more across. A sample was channel sampled across 5.5 metres (18 feet) near the center of the body from the hanging wall. Results are as follows with values expressed in grams per tonne (Minister of Mines Annual Report 1938).

SAMPLE	WIDTH	LOCATION	Au	Ag		
1	5 feet	NE wall; nearly	25.37	10.28		
		solid pyrite	<b>5</b> 40			
2	next	75 per cent	5.48	trace		
	5 feet	pyrite				
3	next	75 per cent	8.23	20.57		
4	next	within 8 inches	trace	6.86		
	3 feet	of footwall				
_	2.21.1				_	

In addition to quartz veins, there is strong evidence of a replacement body beneath the ice in the presence of considerable

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

float in moraine to the northwest of the glacial stream discharge. Please refer to 083D 003 (Blue Ice (SE zone)) for more information.

**BIBLIOGRAPHY** 

EMPR AR 1919-N179; 1920-N168; 1923-A157; 1925-A171; 1926-A189; 1927-C192; \*1929-C221; 1930-A193; 1931-A107; \*1933-A194;

\*1938-D3-D17; 1939-107

EMPR BULL 1, p. 69
EMPR PF (Report by N.E. Nelson, 1936)
GSC MAP 15-1967; 1339A
GSC OF 2324

GSC P 86-1A, pp. 589-594; 87-1A, pp. 735-742 GSC SUM RPT 1926A; 1929A CJES Vol. 14, No. 7, pp. 1690-1695; Vol. 24, No. 2, pp. 302-313

DATE CODED: 1991/11/30 DATE REVISED: 1998/12/08 CODED BY: KJM REVISED BY: GJP FIELD CHECK: N

MINFILE NUMBER: 083D 026

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 027

NATIONAL MINERAL INVENTORY:

NAME(S): **GRIZZLEY**, SUMMIT

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D12W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

1213

LATITUDE: 52 39 37 N

NORTHING: 5838389 EASTING: 304854

IGNEOUS/METAMORPHIC/OTHER

LONGITUDE: 119 53 08 W ELEVATION: 1950 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Quartz body is exposed along the north side of the hill flanking one of the tributary streams of the south fork of Hobson Creek, at the

extreme west end of the Grizzley claims (Minister of Mines Annual

Report 1929).

COMMODITIES: Silver 7inc Gold I ead

**MINERALS** 

SIGNIFICANT: Galena Arsenopyrite Pyrite COMMENTS: Significant minerls listed do not occur in ALL veins included in this

mineral occurrence. Siderite

ASSOCIATED: Quartz COMMENTS: The quartz vein exposed at the west end of the claims has considerable

siderite associated with it.

ALTERATION:

ALTERATION: Sericite
COMMENTS: Sericite has been identified to the southeast in veins at the Summit

showing.

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Concordant Disseminated

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: EÓ3 Carbonate-hosted disseminated Au-Ag

SHAPE: Irregular DIMENSION: 91 STRIKE/DIP: TREND/PLUNGE: Metres

Undefined Formation

COMMENTS: Trenching at the east end of the claim group has exposed a quartz body 60 to 90 metres long by 2.4 metres wide, concordant with host rocks (Minister of Mines Annual Report 1929).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** 

Hadrynian Kaza Cariboo

Hadrynian Isaac Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Quartz Sericite Schist

Phyllite

Massive Quartzite

Quartz Pebble Conglomerate Limestone Pebble Conglomerate

Limestone Grit **Psammite** Argillite Slate

Late Proterozoic (Hadrynian) strata were deposited at some time during the interval 850 to 570 Ma (CJES Vol. 24, No. 2, pp. 302-313). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Cariboo Mountains

Cariboo METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist Amphibolite

COMMENTS: Located near contact between upper Kaza Group and Isaac Formation.

INVENTORY

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

\_\_\_\_\_\_

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1929 SAMPLE TYPE: Grab

COMMODITY GRADE

 Silver
 157.7000
 Grams per tonne

 Gold
 5.8000
 Grams per tonne

 Lead
 7.0000
 Per cent

 Zinc
 1.6000
 Per cent

COMMENTS: Sample from lower end of a massive quartz vein trending northwest.

Trenching has exposed arsenopyrite and galena mineralization.

REFERENCE: Minister of Mines Annual Report 1929.

### CAPSULE GEOLOGY

The area around the headwaters of Azure River has claimed attention for several years due to the discovery of large bodies of auriferous quartz in metasedimentary rocks of the Shuswap Metamorphic Complex. The Grizzley showing is located at the headwaters of Hobson (Fred Wells) Creek.

The Grizzley showing lies near the contact between the Hadrynian upper Kaza Group and the stratigraphically overlying Isaac Formation of the Hadrynian Cariboo Group. The ground covering the Grizzley showing is on the crest and northeast limb of a major anticline which plunges at a low angle to the northwest. The country rocks, striking 255 degrees, consist of massive quartzite, quartz pebble conglomerate, quartz-sericite schist, phyllite, argillite and limestone, of the Isaac Formation of the Hadrynian Cariboo Group. Lithologies of the Hadrynian upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit.

Lithologies of the Hadrynian upper Kaza Group consist of quartzofeldspathic psammite, phyllite, slate and minor grit.

The showing is located on the Grizzley claims, originally staked to cover the extension of mineralization on the Summit claim (083D 004) group which is located to the southeast on the summit of the divide above the north fork of Hobson Creek.

Several quartz bodies are exposed throughout the area. At the extreme west end of the Grizzley claims, one of these quartz bodies is exposed along the north side of the hill flanking one of the tributary streams of the south fork of Hobson Creek. It is conformable with the country rock and has considerable siderite associated with it. Another seam, about 70 centimetres wide, occupies a fracture perpendicular to the previous quartz body and contains patches of solid galena. Towards the eastern end of the showing trenching has exposed a conformable quartz body 60 to 90 metres long by 2.4 metres wide, containing galena and pyrite.

metres long by 2.4 metres wide, containing galena and pyrite.

To the north a quartz body strikes northwest and is exposed over 107 metres length by 7.6 metres in width. Surface trenching has revealed fairly heavy arsenopyrite and galena mineralization. A sample from this vein assayed 5.8 grams per tonne gold, 157.7 grams per tonne silver, 7 per cent lead and 1.6 per cent zinc (Minister of Mines Annual Report 1929).

# **BIBLIOGRAPHY**

EMPR AR 1919-N179; 1920-N168; 1923-A157; 1925-A171; 1926-A189; 1927-C192; \*1929-C221; 1930-A193; 1931-A107; 1938-D3-D17; 1939-107

EMPR BULL 1, p. 69

EMPR PF (Report by N.E. Nelson, 1936)
GSC MAP 15-1967; 1339A
GSC OF 2324
GSC P 86-1A, pp. 589-594; 87-1A, pp. 735-742
GSC SUM RPT 1926A; 1929A
CJES Vol. 14, No. 7, pp. 1690-1695; Vol. 24, No. 2, pp. 302-313

DATE CODED: 1991/12/10 DATE REVISED: / / CODED BY: KJM REVISED BY:

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 028

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5807927

EASTING: 354530

REPORT: RGEN0100

1215

NAME(S): <u>LEMPRIERE CARBONATITE</u>, LEMPRIERE, AR 2, AR, AR 1-4, VERITY,

VERITY FIRST, MILL, MILL 2

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Kamloops

NTS MAP: 083D06E UTM ZONE: 11 (NAD 83)

BC MAP: LATITUDE: 52 24 08 N LONGITUDE: 119 08 18 W ELEVATION: 1370 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Carbonatite outcrop 1.55 kilometres east-northeast of the Verity

occurrence (083D 005) (Assessment Report 10274).

COMMODITIES: Niobium Uranium Rare Farths Tantalum Phosphate

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Vermiculite Apatite

COMMENTS: Pyrochlore was identified in chip samples. Other minerals are assumed

from the similarity to the Verity occurrence (083D 005).

Dolomite Calcite Magnetite Amphibo

Magnetite ASSOCIATED: Dolomite **Amphibole** Zircon Pyrrhotite Olivine Pyrite

COMMENTS: Assciated minerals are assumed from the similarity to the nearby

Verity occurrence (083D 005).

ALTERATION: Amphibole Biotite Albite Perthite

COMMENTS: See comments under associated minerals.
ALTERATION TYPE: Fenitic
MINERALIZATION AGE: Devonian-Mississipp.

ISOTOPIC AGE: circa 350 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

CLASSIFICATION: Magmatic Industrial Min. Carbonatite-hosted deposits

TYPE: N01 SHAPE: Tabular

MODIFIER: Folded

COMMENTS: Isotopic age of circa 350 Ma is from two zircon separates from the

Verity occurrence (083D 005), (Bulletin 86, in press).

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Horsethief Creek **Undefined Formation** Hadrynian

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite

Beforsite Sovite Fenite

Quartz Plagioclase Hornblende Schist

Schist Amphibolite Pegmatite

HOSTROCK COMMENTS: Occurrence is hosted in the Semipelite-Amphibolite unit of the

Horsethief Creek Group.

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay TECTONIC BELT: PHYSIOGRAPHIC AREA: Monashee Mountains

RELATIONSHIP: Post-mineralization METAMORPHIC TYPE: Regional GRADE: Amphibolite

COMMENTS: Carbonatite in central (Omineca) division of carbonatite belt.

INVENTORY

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1981 SAMPLE TYPE: Chip

COMMODITY
Niobium
Phosphate

GRADE

0.0433
Per cent
2.3400
Per cent

Tantalum 0.0118 Per cent COMMENTS: Grades are the weighted average of three 0.3 metre chip samples (3828

REFERENCE: Assessment Report 10274.

### **CAPSULE GEOLOGY**

The Lempriere carbonatite is easily reached by trails and logging roads which cross the North Thompson River and intersect Highway 5 at Lempriere Station, approximately 40 kilometres north of Blue River. It lies 1.55 kilometres east-northeast of the Verity occurrence (083D 005) and 1.90 kilometres southeast of the Mill occurrence (083D 034). A detailed description of the regional geologic setting is given in the Verity occurrence, immediately to the south.

Two areas east of the Verity occurrence were examined and sampled in 1982. The upper and most easterly of these two areas, consisting of outcrop exposed by an uprooted tree, is the Lempriere showing. This may be part of an exposure mapped in 1952 (Geological Survey of Canada Economic Geology No. 18, p. 32). The carbonatite is similar to exposure in the Specimen Pit at the Verity occurrence.

A total of six samples were taken from the Lempriere showing in 1981. Pyrochlore was visible in some chips from samples 3829 and 3830. The weighted average grades from three 0.3-metre chip samples (3828 to 3830) are 0.0118 per cent Tantalum, 0.0433 per cent Nb205 and 2.34 per cent P205 (Assessment Report 10274). An additional three samples (625 to 627) were taken in 1982. Analytical results

ranged from 0.10 to 0.12 per cent Nb205 and from 0.015 to 0.026 tantalum (Assessment Report 11130).

## **BIBLIOGRAPHY**

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EMPR BULL \*86 (in press)
EMPR EXPL 1978-117; 1980-149; 1981-250; 1982-127,128

EMPR FIELDWORK 1979, pp. 118-119; 1980, pp. 111-112; 1981, pp. 68-69 1984, pp. 84-94, 95-100

EMPR MAP 22, #33

EMPR OF \*1987-17; \*1990-32

GSC BULL 239, pp. 121,122,150

GSC EC GEOL #16 (2nd Ed.), p. 236; \*#18, pp. 31-35

GSC MAP 15-1967

GSC OF 551

GSC P 89-1E, pp. 95-100

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 029

NATIONAL MINERAL INVENTORY:

NAME(S): SERPENTINE, LEMPRIERE

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D06E 083D07W BC MAP:

UTM ZONE: 11 (NAD 83) NORTHING: 5805559 EASTING: 363806

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

1217

LATITUDE: 52 23 00 N LONGITUDE: 119 00 04 W ELEVATION: 1830 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Beryl occurs in pegmatite at the head of Serpentine Creek, 6.5 kilometres south of Lempriere (Industrial Minerals File, Personal

Communication, D. Hora).

COMMODITIES: Beryllium

**MINERALS** 

SIGNIFICANT: Beryl

ASSOCIATED: Quartz Feldspar Mica Tourmaline Topaz COMMENTS: Associated mineralogy is inferred from the Yellow Creek (083D 007) and Mica Mountain (083D 019) showings.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Concordant Discordant

CLASSIFICATION: Pegmatite TYPE: 001 R Industrial Min. Rare element pegmatite - LCT family

STRIKE/DIP: TREND/PLUNGE: DIMENSION: 15 Metres

COMMENTS: Pegmatite dykes and pods up to 15 metres thick are found throughout the area (Geological Survey of Canada Paper 89-1A, pp. 95-100).

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE **GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Horsethief Creek Undefined Formation Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Pegmatite

Pelite Semi Pelite Calc-silicate Metabasite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Kootenay Ancestral North America

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

Post-mineralization

COMMENTS: Relationship of metamorphism varies with age of pegmatite.

CAPSULE GEOLOGY

The Serpentine beryllium occurrence is located at the headwaters of Serpentine Creek, about 6.5 kilometres southeast of Lempriere. Metasediments and interlayered metabasites of the Semipelite Amphibolite and lower Pelite units of the Hadrynian Horsethief Creek Group host locally abundant pegmatite pods and layers in the area. The region has been affected by three phases of deformation which produced large tight folds and a pervasive, intense foliation. Regional metamorphism is within the kyanite and sillimanite stability fields of amphibolite grade. Temperatures have been estimated at 595+/- 12 degrees celsius and pressures at 5.5+/-0.6 kilobars (Geological Survey of Canada Paper 89-1E, pp. 95-100). This metamorphism has been determined to have occurred at circa 100 Ma, based on field relations, high precision U-Pb zircon and monazite analyses and petrogenetic constraints (Geology, v. 18, p. 103-106).

Beryllium occurrences are fairly numerous in a belt along the northeastern margin of the Western Cordillera region. Cordilleran pegmatites are mainly in areas that are perhaps more highly metamorphosed than areas with nonpegmatite deposits (Geological Survey of Canada Economic Geology Report No. 23).

Pegmatite pods and dykes up to 15 metres thick are found throughout the area and intrude all lithologies. Field relations vary widely, with some pegmatites being folded by phase three deformation while others are not and can be seen to truncate the host rock layering. Pegmatites may be extremely coarse grained with

RUN DATE: 26-Jun-2003 MINFILE MASTER RE

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

individual muscovite and biotite crystals locally exceeding 15 centimetres (Geological Survey of Canada Paper 89-1E, pp. 95-100).

At the Serpentine showing beryl crystals up to 20 millimetres in diameter have been found in pegmatite (Industrial Minerals File). Refer to the Mica Mountain (083D 019) and Yellow Creek (083D 007) showings for a more detailed description of beryllium-bearing pegmatites.

### **BIBLIOGRAPHY**

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GSC MAP 15-1967; 1339A
GSC OF 2324
GSC P \*89-1E. pp. 95-100
PERS COMM Hora, D.
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Sevigny, J.H. et al., (1990): Northern Monashee Mountains, Omenica Crystalline Belt, British Columbia: Timing of metamorphism, anatexis, and tectonic denudation; Geology, v. 18, p. 103-108.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 029

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 030

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5776696

EASTING: 336744

REPORT: RGEN0100

1219

NAME(S): NORTH BLUE RIVER, BLUE RIVER, WHITERIVER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083D03W BC MAP:

LATITUDE: 52 07 00 N

LONGITUDE: 119 23 04 W ELEVATION: 915 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Center of a large pegmatite body immediately northwest of Blue River

(Geological Survey of Canada, Paper 84-1A, p. 92).

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica Muscovite

ASSOCIATED: Quartz Albite Oligoclase Garnet Beryl Apatite Kvanite COMMENTS: Pegmatite is composed principally of albite and oligoclase feldspar

and a vitreous quartz. Accessories include garnet, kyanite,tourmaline beryl and apatite (Minister of Mines Annual Report 1902).

MINERALIZATION AGE: Lower Cretaceous ISOTOPIC AGE: 125 +/- 7 Ma DATING METHOD: Unknown MATERIAL DATED: Unknown

**DEPOSIT** Concordant Discordant Disseminated

CHARACTER: Vein CLASSIFICATION: Pegmatite Industrial Min.

Muscovite pegmatite

TYPE: 003 I SHAPE: Tabular

x 30 DIMENSION: 60 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Some of these pegmatite bands are over 30 metres wide and 60 metres long (AR 1902). The age of post/pre phase 3 deformation pegmatites

is 125+/-7 and 154+/-6 Ma, respectively (GSC Paper 90-1E).

HOST ROCK

DOMINANT HOSTROCK: Metaplutonic

STRATIGRAPHIC AGE

Hadrynian

Horsethief Creek

Protérozoic-Paleoz.

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER Shuswap Metamorphic Complex

LITHOLOGY: Pegmatite

Pelitic Schist Micaceous Schist Semi Pelite **Psammite** Grit Marble Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

Post-mineralization

COMMENTS: Relationship of metamorphism varies with age of pegmatite.

CAPSULE GEOLOGY

The North Blue River is a mica showing hosted in pegmatite, 5

kilometres northwest of Blue River.

The Canoe River map area is predominantly underlain by a sequence of Hadrynian metasedimentary strata, belonging to the Windermere Supergroup (Miette, Horsethief Creek and Kaza groups) and their basement gneisses. Lithologies common to the area include semipelite, psammite, grit, marble and calc-silicate.

Little information is available for this showing which was first mentioned as one of several occurrences of large books and crystals of mica hosted in pegmatites in the Canoe River area (Minister of

Mines Annual Report 1902).

A large pegmatite body was mapped in 1983 as part of a field study of the structural evolution and metamorphism in the Blue River area (Geological Survey of Canada Paper 84-1A, pp. 91-94). description of pegmatite in the Blue River area given in 1902 is assumed to be part of this body or an apophyses of it.

The ages of pre and post phase three deformation pegmatites has

## MINFILE MASTER REPORT

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### **CAPSULE GEOLOGY**

been determined to be 154+/-6 Ma and 125+/-7 Ma respectively from pegmatites in the Cariboo Mountains west of Valemount (Geological Survey of Canada Paper 90-1E, pp. 71-80).

Large masses of pegmatite were observed interbanded with micaceous schists of the Hadrynian Horsethief Creek Group. Albite or oligoclase feldspar and a vitreous quartz comprise the major principal constituents (Minister of Mines Annual Report 1902). Other pegmatites in the Canoe River area contain garnet, tourmaline, kyanite, beryl and apatite as accessories (Minister of Mines Annual Report 1920). Some pegmatite bands and masses are over 30 metres wide and 60 metres long. It is these pegmatites in which large crystals of commercial sheet mica are found, geological and geochemical conditions permitting (Minister of Mines Annual Report 1902).

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EMPR AR 1888-313; 1893-80A-81A; 1898-39; \*1902-1083; 1912-K52-K53; 1913-K59; 1914-K56-K57; 1920-N95-N96; 1921-N95,N96; 1924-152; 1928-C188,C189; 1947-A220

GSC EC GEOL No. 19, pp. 83-84

GSC MAP 15-1967, 1339A

GSC OF 2324

GSC P \*84-1A, pp. 91-94; 90-1E, pp. 71-80

WWW http://www.infomine.com/index/properties/BLUE\_RIVER.html

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 030

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 031

NATIONAL MINERAL INVENTORY:

NAME(S): **GRANT BROOK** 

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Cariboo

NTS MAP: 083D15E BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1221

LATITUDE: 52 54 34 N

NORTHING: 5863576 EASTING: 384576

LONGITUDE: 118 42 59 W ELEVATION: 1471 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Center of dolomite outcrop, 3.3 kilometres east of the Grant Brook

Marble

station (CANMET Report 811, page 217).

COMMODITIES: Dolomite

Dimension Stone

SIGNIFICANT: Dolomite

Chlorite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Pyrite

**DEPOSIT** 

CHARACTER: Stratiform

Massive

CLASSIFICATION: Sedimentary TYPE: R10 Dolomite

Industrial Min.

R04 STRIKE/DIP: 114/60

Dimension stone - marble TREND/PLUNGE:

DIMENSION: 1600 x 120 Metres COMMENTS: The dolomite bed dips 30 to 90 degrees north.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Lower Cambrian

FORMATION Mural

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Dolomite

Limestone Sandstone Quartz Sandstone

Quartzite

Pelite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

PHYSIOGRAPHIC AREA: Continental Ranges

INVENTORY

ORE ZONE: QUARRY

REPORT ON: N

Per cent

CATEGORY: Assa SAMPLE TYPE: Chip COMMODITY Assay/analysis YEAR: 1944

**GRADE** 20.6800

Dolomite

COMMENTS: Taken across 30.5 metres. Grade given for MgO. REFERENCE: CANMET Report 811, page 217, Sample 96A.

CAPSULE GEOLOGY

The Grant Brook deposit consists of a band of dolomite, at least 120 metres wide. The dolomite outcrops on Grant Brook, 3.3 kilometres east of the Grant Brook Station of the Canadian National Railway, and continues southeastward along the mountainside for at least 1.6 kilometres, 100 to 180 metres above the railway.

The area is underlain by a sequence of quartz-rich sandstones and coarser clastics, carbonates and pelites and other associated fine grained clastics from the Upper Proterozoic (Hadrynian) Miette Group through the Lower Cambrian Gog Group to the Middle Cambrian Changellor Group. Chancellor Group. The Gog Group is subdivided into the lower McNaughton Formation, the Mural Formation and the upper Mahto Formation. The Resplendent fault and Moose Lake thrust are major structural elements that, in part, separate Cambrian stratigraphy from Hadrynian Miette stratigraphy to the southwest.

At the Grant Brook deposit, the entire dolomite bed is hosted in the Mural Formation of the Lower Cambrian Gog Group. The Mural Formation, in the immediate area, consists of limestone and dolomite with interbedded shale and sandstone. The dolomite bed, striking 114 degrees and dipping 30 to 90 degrees north, consists of fine grained,

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### CAPSULE GEOLOGY

variably banded and mottled, pink, white and bluish white, impure dolomite. The dolomite is interbedded with layers of light green, talcose shale, 3 millimetres to 0.6 metres thick. Throughout the rest of the deposit, only a few streaks of blue and purple shale are present. The dolomite is thinly laminated to thinly bedded and massively but variably jointed, with most joints dipping westward. The rock is contaminated with minor crystals and veins of white quartz, a few chloritic streaks and a trace of pyrite. The deposit becomes more siliceous to the west. Several chip samples analyzed as follows (in per cent) (Canada Bureau of Mines Report 811, p. 217, Samples 96A, 96B, 96C):

Sample CaO MgO SiO2 Al2O3 Fe2O3 Sulphur 96A 30.93 20.68 1.54 0.51 0.44 0.01 96B,96C 30.08 20.04 3.93 0.55 0.63 0.015 Sample 93A was taken across 30.5 metres of white and bluish white dolomite exposed in a quarry. Assays for samples 96B and 96C have been averaged. The two samples were taken in succession across 30.5 metres of pink and white dolomite in the quarry.

The deposit was also investigated for its dimension stone potential. The stone, very hard and compactly crystalline, is generally white in color. The stone is strong, of low porosity, and should prove to have good weathering properties, however, it would be hard to work. The dolomitic character of the stone is shown by a high specific gravity and weight per cubic foot and by a slight loss under the corrosion test relative to the marbles from other localities. This test produced only slight etching and scarcely any color change. The specific values of test results on sample number 1249 were:

```
Specific Gravity = 2.855
Weight per cubic foot = 177.32
Pore Space = 0.57
Ratio of Absorption = 0.150 (in one hour)
Coefficient of Saturation = 0.74 (in one hour)
Crushing Strength = 25,114 psi
Loss on Corrosion = 0.00586 grams per square inch
This analysis reveals the high dolomitic character of the stone
(Canada Bureau of Mines Report 452, p. 142-146, Sample 1249).
A small, unknown quantity of dolomite was quarried for marble by the Grant Brook Marble Company sometime before 1914.
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GSC MAP 15-1967, 1339A

GSC OF 2259; *2260; 2324

GSC P 84-1A, pp. 99-102; *86-1A, pp. 619-626; *88-1D, pp. 105-113;

88-1E, pp. 171-176; 90-1E, pp. 81-89, 90-1E, pp. 359-367;

91-1E, pp. 5-11

CANMET Report *452, Vol. 5, pp. 143-146; *811, Part 5, pp. 217,218

CJES Vol 25, No. 10, pp. 1687-1702

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1991/12/03 REVISED BY: KJM FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 032

NATIONAL MINERAL INVENTORY:

NAME(S): **RAFFERTY**, M-10

STATUS: Prospect REGIONS: British Columbia NTS MAP: 083D11W BC MAP:

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

52 31 00 N 119 25 04 W LATITUDE:

NORTHING: 5821253 EASTING: 335948

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1223

LONGITUDE: 119 25 04 VELEVATION: 1000 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Approximate centre of the claim group on the north side of the North Thompson River, 48 kilometres northwest of Blue River (Assessment

Report 13844).

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica Muscovite ASSOCIATED: Quartz

Feldspar **Biotite** Garnet Pyrrhotite

Graphite MINERALIZATION AGE: Lower Cretaceous

ISOTOPIC AGE: 135 +/- 4 Ma DATING METHOD: Unknown MATERIAL DATED: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Concordant CLASSIFICATION: Metamorphic Industrial Min. SHAPE: Tabular

DIMENSION: 1350 x 65 Metres STRIKE/DIP: 115/ TREND/PLUNGE:

COMMENTS: The Main zone trends 115 degrees for 1350 metres and dips steeply

southwest. Mineralization age is assumed to be the age of the main metamorphic event (Geological Survey of Canada Paper 90-1E, pp.71-80).

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Upper Proterozoic Proterozoic-Paleoz. **GROUP** Kaza

**FORMATION Undefined Formation**  IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

LITHOLOGY: Quartz Muscovite Biotite Schist

Quartz Hornblende Biotite Schist Quartz Mica Schist

Micaceous Quartzite Quartzite

Sandstone Phyllite

HOSTROCK COMMENTS: Hosted in the Lower Kaza Group on the northwestern margin of the

Shuswap Metamorphic Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca TERRANE: Cariboo PHYSIOGRAPHIC AREA: Cariboo Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1985 Assay/analysis

**GRADE** COMMODITY

Mica 44.4700 Per cent

COMMENTS: Schist samples containing muscovite. Of the 44.47 per cent muscovite, 15 per cent was contaminated with graphite.

REFERENCE: Assessment Report 13844.

CAPSULE GEOLOGY

The Rafferty prospect is located on the north side of the North Thompson River at Adolf Creek, 48 kilometres northwest of the community of Blue River. The deposit was trenched and sampled by Pacific Mica Ltd. in 1984 and 1985.

The area is underlain by quartz mica schist, quartzite and phyllite of the Upper Proterozoic lower Kaza Group. A northwest trending thrust fault is interpreted to separate the Kaza Group from overturned strata of the Hadrynian Horsethief Creek Group to the northeast. The main metamorphic event has been dated to have

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

occurred at 135 +/- 4 Ma (Geological Survey of Canada Paper 90-1E, pp. 71-80). Refer to the Canoe South Mica showing (083D 017) for a detailed description of the regional deformation and metamorphism.

The deposit is comprised of two distinct zones of muscovite rich schist. A zone of quartz-muscovite-biotite schist, 65 metres wide, trends 115 degrees for at least 250 metres, possibly up to 1350 metres, and dips steeply southwest. Minor garnet and locally intense iron staining due to pyrrhotite are present. The zone grades northeastward into interbedded quartz-hornblende-biotite-garnet schist and quartzite. The zone is in sharp contact to the southwest with quartzite and micaceous quartzite. A second less well defined zone (the M-10 zone) occurs southwest of the previous zone, where large blocks of quartz mica schist are exposed on the steep north bank of the North Thompson River. The blocks are likely slumped

material, only slightly removed from bedrock.

Schist samples from the main zone are reported to contain 44.47 per cent muscovite, of which 15 per cent was contaminated with graphite (Assessment Report 13844). Muscovite from the M-10 zone was found to be free of graphite. Grinding and beneficiation tests, performed at the University of Toronto, indicate that a concentrate, containing at least 95 per cent muscovite, can be produced. Good liberation and separation occur in the 0.15 to 0.6 millimetre size range (Assessment Report 12679).

#### **BIBLIOGRAPHY**

EMPR AR 1899-81A EMPR ASS RPT \*12679; \*13844 EMPR INF CIRC 1986-1, p. 70 GSC EC GEOL No. 19, pp. 83-84 GSC MAP 15-1967; 1339A GSC OF 2324 GSC P 87-1A, pp. 713-718; 89-1E, pp. 101-107; 90-1E, pp. 71-80

DATE CODED: 1986/03/14 CODED BY: ZDH FIELD CHECK: N DATE REVISED: 1991/11/19 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 032

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 033

NATIONAL MINERAL INVENTORY:

PAGE:

TREND/PLUNGE:

REPORT: RGEN0100

1225

 $\mbox{NAME(S):} \ \ \frac{\mbox{BLUE RIVER FELDSPAR}}{\mbox{BLUE 2}}, \mbox{ BLUE RIVER, BLUE 1-3},$ 

STATUS: Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D03W UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5776701 EASTING: 339447 LATITUDE: LONGITUDE: 119 20 42 W

ELEVATION: 792 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Blue 2 claim, 3 kilometres west-northwest of the community

of Blue River (Assessment Report 12892).

COMMODITIES: Feldspar

**MINERALS** 

SIGNIFICANT: Feldspar

COMMENTS: Glass feldspar.
ASSOCIATED: Quartz Muscovite Biotite
COMMENTS: Coarse assemblage of white feldspar and quartz.

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive

CLASSIFICATION: Pegmatite Industria
TYPE: O04 Feldspar-quartz pegmatite
SHAPE: Tabular
DIMENSION: 1475 x 490 Metres
COMMENTS: Pegmatite dyke dimension. Industrial Min.

STRIKE/DIP:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hadrynian Horsethief Creek Unnamed/Unknown Formation

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Biotite Quartz Feldspar Gneiss

**Biotite Gneiss** 

Coarse Grained Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Shuswap Highland

TERRANE: Monashee METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The Blue River Feldspar showing is located approximately 3 kilometres west of the town of Blue River on the north side of the Blue River valley. A pegmatite dyke, hosted in gneissic rocks along the northern margin of the Paleozoic to Proterozoic Sheplanes. Metamorphic Complex, has been explored as a source of feldspar. The deposit was mapped and drilled by G.R. Guillet in 1984.

Three major stratigraphic units are recognized in the area; metasedimentary rocks of the Semipelite-Amphibolite, the Middle Marble and the Upper Clastic units of the Hadrynian Horsethief Creek Group. These units are regionally metamorphosed to upper amphibolite grade. A pegmatite body, approximately 10 by 4 kilometres in area, is located on the north side of Blue River and trends east-west. south-southwest apophyses of this pegmatite body extends southerly towards the Blue River where it outcrops at this deposit. The  $\,$ pegmatite intrudes biotite-quartz-feldspar gneiss of the Hadrynian Horsethief Creek Group.

The pegmatite consists of a coarse assemblage of white feldspar and quartz with accessory muscovite. The dyke, which strikes northeast and dips vertically, has been traced along strike for 1475 metres with a width of 490 metres and is best observed in outcrop along the base of the north valley wall of the Blue River.

A drill hole encountered two pegmatite sections of 6.2 and 3.6 metres separated by gneiss before intersecting the main pegmatite zone at 26.2 metres depth. The drill hole was terminated at 40 metres still in pegmatite. The weighted average of three samples of drill core analyzed as follows after dry magnetic separation (Assessment Report 12892):

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

```
- 74.4 per cent
- 14.7 per cent
- 0.076 per cent
- 1.73 per cent
- 0.04 per cent
- 3.89 per cent
- 4.53 per cent
- 4.53 per cent
- 0.01 per cent
- 0.02 per cent
- 0.53 per cent
- 0.53 per cent
SiO2
A1203
Fe203
CaO
MgO
Na20
K2O
MnO
Mno
TiO2
P205
LOI
Chromium - < 10 ppm
Rubidium - 130 ppm
Strontium - 630 ppm
Yttrium - < 10 ppm
Zirconium - < 10 ppm
Niobium - 20 ppm
```

Based on company results, the pegmatite contains feldspathic material which meets industry specifications for glass and ceramic  $\,$ applications.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*12892 EMPR OF \*1991-10 GSC MAP 1339A; 15-1967 GSC OF 2324 GSC P \*84-1A, pp. 91-94

WWW http://www.infomine.com/index/properties/BLUE\_RIVER.html

CODED BY: ZDH REVISED BY: PSF DATE CODED: 1986/03/14 DATE REVISED: 1991/03/22 FIELD CHECK: N

MINFILE NUMBER: 083D 033

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 034

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1227

 $\begin{array}{ll} \text{NAME(S):} \ \ \underline{\mbox{MILL}}, \mbox{LEMPRIERE, VERITY}, \\ \mbox{AR, AR-2} \end{array}$ 

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D06E UTM ZONE: 11 (NAD 83)

BC MAP:

NORTHING: 5809705 EASTING: 353997 LATITUDE: LONGITUDE: 119 08 49 W

ELEVATION: 870 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole M-2 on AR-2 claim (Assessment Report 9566).

COMMODITIES: Niobium Tantalum Phosphate

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite

COMMENTS: Refer to capsule geology for a detailed mineralogy Ölivine ASSOCIATED: Dolomite Calcite Amphibole

**Biotite** Magnetite Pyrite Zircon

COMMENTS: See capsule geology for associated minerals. See the Verity

ALTERATION: Amphibole Biotite Albite Perthite

COMMENTS: See comment under associated minerals. See the Verity occurrence

(083D 005) for details.

ALTERATION TYPE: Fenitic
MINERALIZATION AGE: Devonian-Mississipp.

ISOTOPIC AGE: circa 350 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

CLASSIFICATION: Magmatic Industrial Min. TYPE: N01 SHAPE: Tabular Carbonatite-hosted deposits

MODIFIER: Folded

STRIKE/DIP: DIMENSION: 300 Metres

COMMENTS: Uranium-lead age dates on zircon from the Verity and Paradise showings of 325 and 340 Ma respectively indicate a mid-Paleozoic (Devono-

Mississippian) age of emplacement (Bulletin 86, in press).

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

GROUP Horsethief Creek **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Hadrynian Undefined Formation

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite Beforsite

Sovite

Quartz Hornblende Mica Schist

Gneiss Semi Pelite Amphibolite

HOSTROCK COMMENTS: Sovite zone can be traced discontinuously in a north-south direction

for 300 metres.

GEOLOGICAL SETTING
TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization

GRADE: Amphibolite

COMMENTS: Carbonatites in central (Omineca) division of carbonatite belt.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1980

SAMPLE TYPE: Drill Core COMMODITY GRADE

Niobium 0.2400 Per cent 3.3800 Phosphate Per cent Tantalum 0.0110 Per cent

COMMENTS: Values are from drill hole M-2 at 120 to 133 foot interval. Niobium

grade is for Nb2O5. REFERENCE: Assessment Report 9566. TREND/PLUNGE:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The Mill carbonatite showing is located approximately 1600 metres due north of the Verity occurrence (083D 005). The Mill is easily reached by logging roads which cross the North Thompson River and intersect highway 5 at Lempriere Station, 40 kilometres north of Blue River.

Carbonatite consisting of sovite and lesser beforsite occurs as sills within quartz-hornblende-mica schist of the Semipelite Amphibolite division of the Hadrynian Horsethief Creek Group. For a comprehensive description of the regional geologic setting of the Mill showing refer to the Verity carbonatite (083D 005).

The Mill showing consists primarily of two major sovite units similar to the lower two sovite units of the Verity. This zone can be traced discontinuously in a north-south direction for up to 300 metres. The gneiss and carbonatite have been folded into a tight fold and carbonatite appears to be concordant with the gneiss foliation. To the west of the fold axis the carbonatite dips steeply to the west.

A banded texture caused by layering of the accessory minerals apatite, amphibole, olivine, magnetite, biotite, pyrite, pyrrhotite, pyrochlore, columbite, and zircon is common in the sovite unit and less developed in the beforsite unit.

Anomalous values of niobium occur in the lower half of the lower sovite unit. Values up to 0.42 per cent Nb205 over 1.5 metres occur for a strike length of 100 metres (Assessment Report 10274). Drill intersections from holes M-1 and M-2 assayed up to 0.24 per cent Nb205, 0.089 per cent tantalum, and 4.62 per cent P205 (Assessment Report 9566). A drill hole intersection between 120 to 133 feet in hole M-2 assayed 0.24 per cent Nb205, 0.011 per cent tantalum, and 3.38 per cent P205 (Assessment Report 9566).

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EMPR OF 1987-17; 1990-32
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DATE CODED: 1987/07/28 DATE REVISED: 1991/12/09 CODED BY: LDJ REVISED BY: KJM

MINFILE NUMBER: 083D 034

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 035

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1229

NAME(S): **FIR**, AZ - 1, FIR 1, FIR 2, BLUE RIVER

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D06E

MINING DIVISION: Kamloops UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 52 18 39 N LONGITUDE: 119 10 24 W NORTHING: 5797835 EASTING: 351844

ELEVATION: 790 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill site for holes BC-18 to 21 on Fir 2 claim (Assessment Report 9923). Located within the north Thompson River valley, about 23

kilometres north of Blue River on western side of Rocky Mountain trench.

COMMODITIES: Niobium Phosphate Tantalum

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite

ASSOCIATED: Dolomite Calcite **Amphibole** Olivine Magnetite Pvrrhotite Pvrite **Biotite** 

COMMENTS: Deposit classifaction is metasomatic. ALTERATION: Amphibole Albite Perthite

COMMENTS: See comment under associated minerals. See the Verity occurrence (083D 005) for details.

ALTERATION TYPE: Fenitic
MINERALIZATION AGE: Devonian-Mississipp.

ISOTOPIC AGE: circa 350 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

CLASSIFICATION: Magmatic Industrial Min.

TYPE: N01 Carbonatite-hosted deposits SHAPE: Tabular

DIMENSION: 400 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Uranium-lead age dates on zircon from the Verity and Paradise showings

of 325 and 340 Ma respectively indicate a mid-Paleozoic (Devono-

Mississippian) age of emplacement (Bulletin 86, in press).

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Horsethief Creek Undefined Formation Hadrynian

Protérozoic-Paleoz.

Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite

Beforsite Sovite

Quartz Hornblende Mica Schist Amphibole Biotite Schist Biotite Muscovite Gneiss Amphibole Biotite Garnet Gneiss

Semi Pelite **Amphibolite** 

HOSTROCK COMMENTS: Carbonatite likely strikes 400 metres in a northerly direction.

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Monashee Mountains TECTONIC BELT:

RELATIONSHIP: Post-mineralization METAMORPHIC TYPE: Regional GRADE: Amphibolite

COMMENTS: Carbonatites in central (Omineca) division of carbonatite belt.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY Assay/analysis YEAR: 2001

SAMPLE TYPE:

COMMODITY **GRADE** 0.1178 Niobium Per cent

Phosphate 3.2800 Per cent Tantalum 0.0202 Per cent

COMMENTS: In DDH-1, over 76.47 metres. REFERENCE: EMPR Exploration & Mining 2001, pages 73-88.

MINFILE NUMBER: 083D 035

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Rock

YEAR: 1980

COMMODITY Niobium

**GRADE** 1.0200

Per cent 6.3100 Per cent 0.0600 Per cent

**Phosphate** Tantalum REFERENCE: Assessment Report 9566.

### **CAPSULE GEOLOGY**

The Fir showing is located 1.25 kilometres north of the Bone Creek carbonatite occurrence (083D 036) and is accessed from a logging road which intersects Highway 5 approximately 23 kilometres north of Blue River.

Carbonatite consisting of beforsite and lesser sovite occurs as sills within quartz-hornblende-mica schist of the Semipelite Amphibolite division of the Hadrynian Horsethief Creek Group. lithologies within the are include amphibole biotite schist, biotite muscovite gneiss and amphibole biotite garnet gneiss. The reader is referred to the Verity occurrence (083D 005) for a more detailed description of the regional geology.

The Fir carbonatite likely strikes 400 metres in a northerly

direction. A two metre exposure of beforsite was located 400 metres north of the discovery outcrops.

Beforsite outcrops are coarsely crystalline and typically weather white. Accessory minerals in the carbonatites include apatite, amphibole, olivine, magnetite, pyrite, pyrrhotite, pyrochlore and columbite. Beforsite is almost void of biotite and magnetite. Three distinct textures were observed: breccias composed of tightly packed dolomite fragments within a finely crystalline dolomite groundmass, a porphyritic texture with ghost dolomitic crystals in a fine grained matrix and massive beforsite with local banding of accessory minerals.

The porphyritic textures appear to have developed from resorption of beforsite crystals into a fine grained beforsite matrix. The textural variability of the beforsite and the differences in the niobium to tantalum ratios indicate formation from a series of magma pulses similar to the Verity occurrence (083D 005).

Beforsite units have the highest background niobium and tantalum values of all carbonatites in the area. Tantalum averages greater than 0.015 per cent (Assessment Report 10274). Sampling of the discovery outcrops returned assays of 1.02 per cent Nb205, 0.06 per cent Ta205, and 6.31 per cent P205 (Assessment Report 9566). A sample from drill core returned values of 0.18 per cent tantalum and 8.51 per cent phosphate (Assessment Report 9923).

Two hundred or so metres above the Fir Carbonatite layer, the Bone Carbonatite, some 5 metres thick and extending for about two kilometres along strike, is composed of apatite beforsite with coarse pyrochlore and only minor ferrocolumbite. Most of the pyrochlore is dark to black and contain U and Ta in the greatest concentration in the camp (EMPR Exploration & Mining 2001, pages 73-82, 83-88).

Commerce Resources released an estimate for a potentially open-pitable inferred resource of 5.2 million tonnes grading 194 grams per tonne Ta205, 897 grams per tonne Nb205 and 3.5 per cent P205 using a cutoff grade of 150 grams per tonne Ta205 (Commerce Resources Corp. News Release, June 5, 2002).

Commerce Resources released another resource estimate in

March 2003 based on 5 holes drilled in 2002, 6 drillholes from 2001 and 4 drilled in 1981. The indicated resource is 5,650,000 tonnes grading 203.1 grams per tonne Ta205 and 1047 grams per tonne Nb205 and the inferred resource is 6,746,000 tonnes grading 203.1 grams per tonne Ta205 and 1047 grams per tonne Nb205.

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 2001-33-43,73-82,83-88; 2002-41-50 EMPR FIELDWORK 1979, pp. 118-119; 1980, pp. 111-112; 1981, pp. 68-69; 1984, pp. 84-94, 95-100 EMPR MAP 22, #33 EMPR OF 1987-17 EMPR PF (Knox, A. (2000): Summary Report on the Blue River Carbonatite Property, from Commerce Resources Corp. website, in

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER RE
RUN TIME: 08:48:46 GEOLOGICAL SURVEY RR

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1987/07/28 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 036

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1232

NAME(S): **BONE CREEK**, GUM CREEK, BE 1-3, BC 1-4, BLUE 2-3

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D06E UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 52 17 55 N LONGITUDE: 119 09 58 W NORTHING: 5796461 EASTING: 352296

ELEVATION: 1173 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of drill hole BC-12 (Assessment Report 9566).

Phosphate COMMODITIES: Niobium Tantalum Uranium Rare Farths

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite ASSOCIATED: Ankerite Magnetite Amphibole Dolomite Olivine

Molybdenite Phlogopite Ilmenite

COMMENTS: Deposit classification is metasomatic. ALTERATION: Amphibole Albite Perthite

COMMENTS: See comment under associated minerals. See the Verity occurrence

(083D 005) for details.

ALTERATION TYPE: Fenitic

MINERALIZATION AGE: Devonian-Mississipp. ISOTOPIC AGE: circa 350 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

Concordant Disseminated

CHARACTER: Stratiform CLASSIFICATION: Magmatic Industrial Min.

TYPE: N01 Carbonatite-hosted deposits

SHAPE: Tabular MODIFIER: Faulted

DIMENSION: 2 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Uranium-lead age dates on zircon from the Verity and Paradise showings

of 325 and 340 Ma, respectively indicate a mid-Paleozoic (Devono-

MIssissippian) age of emplacement (Bulletin 86, in press).

HOST ROCK DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Horsethief Creek Undefined Formation Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite

Rauhaugite Quartz Hornblende Mica Schist

Pelite

Amphibolite

Biotite Hornblende Gneiss

Semi Pelite

GEOLOGICAL SETTING
TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Monashee Mountains TERRANE: Kootenay

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-COMMENTS: Carbonatites in central (Omineca) division of carbonatite belt. RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1980

SAMPLE TYPE: Drill Core

COMMODITY GRADE Niobium 0.2100 Per cent Phosphate 1.9000 Per cent

0.0578 Tantalum Per cent COMMENTS: Values are from drill hole BC-12 at the 7.47 to 7.62 metre interval.

Niobium and phosphate values are Nb2O5 and P2O5 respectively. REFERENCE: Assessment Report 9566.

CAPSULE GEOLOGY

The Bone Creek carbonatite is located on the east side of the North Thompson River. It is easily accessed by logging roads which

> MINFILE NUMBER: 083D 036

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

intersect Highway 5 about 23 kilometres north of Blue River.
The Bone Creek showing is a buff-weathering rauhaugite,
occurring as a sill within quartz-hornblende-mica schist of the
Semipelite Amphibolite Division of the Hadrynian Horsethief Creek
Group. Other lithologies include biotite hornblende gneiss,
semipelite and amphibolite. The Verity occurrence (083D 005)
contains a more detailed description of the regional setting.
This rauhaugite showing consists of two main outcrops. Drill
hole data suggests that a thin horizontal sheet, approximately 2.3
metres thick pinches out to the north, or has been offset by
faulting.

Accessory minerals in the carbonatite include amphibole, apatite, magnetite and minor phlogopite. Ilmenite, pyrochlore, columbite and zircon may be present in trace amounts. The amphibole may be richterite, soda-tremolite, tremolite or actinolite. Amphibole and apatite within the rauhaugite define a foliation parallel with compositional banding. Vertical mineral zoning is apparent in weathered outcrop. Alternating apatite-amphibole-rich and carbonate-rich layers parallel the foliation and the contact with country rocks. Color banding of 2 to 5 centimetres thickness in weathered outcrops is not reflected in drill core.

The carbonatite, as indicated by drilling, averaged 0.0198 per cent tantalum, 0.047 per cent niobium, and 3.4 per cent P205. A one-metre intersection assayed 0.0188 per cent uranium. (Assessment Report 9566, 10274). A 15-centimetre core sample from drill hole BC-12 assayed 0.0578 per cent tantalum, 0.21 per cent niobium and 1.9 per cent phosphate (Assessment Report 9566). The highest phosphate assay value, from drill hole BC-5, was 5.37 per cent (Assessment Report 9566). Molybdenite was also noted in drill core from this showing.

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DATE CODED: 1987/07/28 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1991/11/06 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 037

NATIONAL MINERAL INVENTORY:

NAME(S): **AEG**, JTM, MUD LAKE, ORION, ORION 5

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D03E

BC MAP:

LATITUDE: 52 08 00 N LONGITUDE: 119 11 04 W ELEVATION: 1300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Center of four two-post mining claim group northeast of Mud Lake

(Assessment Report 7783).

COMMODITIES: Niobium Strontium Lanthanum Scandium

Uranium Zirconium Tantalum Neodymium Phosphate Rare Earths Cerium Thorium

PAGE:

MINING DIVISION: Kamloops

UTM ZONE: 11 (NAD 83)

NORTHING: 5778119 EASTING: 350492

REPORT: RGEN0100

1234

**MINERALS** 

SIGNIFICANT: Pyrochlore Zircon Columbite Apatite

ASSOCIATED: Calcite Dolomite Ilmenite Olivine Amphibole Phlogopite Chlorite Antigorite

COMMENTS: The complete mineralogy is given in the capsule geology.

ALTERATION: Augite Albite Perthite

COMMENTS: See structural comments below, capsule geology and the Verity showing (083D 005) for details.

ALTERATION TYPE: Fenitic
MINERALIZATION AGE: Upper Mississippian
ISOTOPIC AGE: 328 +/- 30 Ma

MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Concordant Disseminated

CLASSIFICATION: Magmatic Industrial Min.

TYPE: N01 Carbonatite-hosted deposits

SHAPE: Tabular MODIFIER: Other

DIMENSION: 150 x 4 Metres

COMMENTS: Carbonatities are thin discontinuous, sill-like intrusions with minimal amounts of associated fenite (Open File 1987-17). Radiometric date

is a preliminary uranium/lead age on zircon (Fieldwork 1984).

DATING METHOD: Uranium/Lead

HOST ROCK DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE **GROUP** 

Hadrynian

Protérozoic-Paleoz.

**FORMATION** Horsethief Creek

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Shuswap Metamorphic Complex

GRADE: Amphibolite

TREND/PLUNGE:

LITHOLOGY: Carbonatite

Rauhaugite

Amphibolite Biotite Plagioclase Schist

Semi Pelite Amphibolite Fenite

HOSTROCK COMMENTS:

Carbonatite showings occur within the Semipelite division of the

Hadrynian Horsethief Creek Group (Open File 1987-17).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Monashee Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization

COMMENTS: Carbonatite in central (Omineca) division of carbonatite belt.

INVENTORY

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analy SAMPLE TYPE: Rock		1978
COMMODITY Cerium Lanthanum Neodymium Phosphate	GRADE 0.0415 Per cen 0.0200 Per cen 0.0165 Per cen 3.4400 Per cen	t t t
Strontium Tantalum REFERENCE: Open File 1987-17.	0.2780 Per cen 0.0097 Per cen	

### **CAPSULE GEOLOGY**

The AEG carbonatite showing is located northeast of Blue River, at kilometre 14.2 on Redsand logging road (Exploration 1979). It is the southernmost of seven known carbonatite occurrences in the Blue River area.

The AEG showing is below treeline, thus outcrop exposure is limited. Of the three types of carbonatites in the Blue River area, the AEG showing is a buff weathering dolomitic (rauhaugite) with 5 to 15 per cent amphibole, 2 to 10 per cent apatite, magnetite and minor phlogopite within folded amphibolite-biotite-feldspar schist of the Semipelite Amphibolite division of the Hadrynian Horsethief Creek Group. For a detailed regional geological description for this and other carbonatite occurrences in the Blue River area refer to the Verity showing (083D 005).

The major outcrop at the AEG occurrence has been traced for over 150 metres along strike and has a maximum thickness of greater than 4 metres. Calcite, dolomite, apatite, ilmenite, forsterite, tremolite-actinolite, chlorite, antigorite, vermiculite, talc, mica, pyrrhotite and lesser amounts of phlogopite, chondrodite, pyroxene, magnetite and limonite comprise the detailed mineralogy of the AEG showing (Fieldwork 1981). Pyrochlore, columbite and zircon may be present in trace amounts. Amphibole and apatite define a contact, and external schistosity parallels foliation. Vertical zoning was noted in weathered outcrop (Fieldwork 1984) but no segregations were found (Open File 1987-17).

In many places fenite can be seen enveloping carbonatite and replacing schists (Fieldwork 1979). Ferro-augite-albite-biotite fenitization may extend up to one metre into adjacent quartz-albite-biotite or biotite-sillimanite-garnet schists. Often a 5 centimetre band of ferro-augite-rich rocks with interstitial albite separates fenite from rauhaugite. Contacts between rauhaugite and fenite are sharp with rauhaugite showing embayed relations with fenite. Schist-fenite contacts are gradational (Fieldwork 1979).

A sample collected from the middle of the claim group at the highest reading from a ground scintillometer survey, returned 0.0116 per cent uranium from a semi quantitative spectrographic analysis (Assessment Report 7783). Analysis of a samples collected from the showing in 1987, indicated 0.278 per cent strontium, 0.002 per cent zirconium, 0.02 per cent lanthanum, 0.0415 per cent cerium, 0.0165 per cent neodymium, 0.0038 per cent scandium, 0.0097 per cent tantalum and 3.44 per cent phosphate (Open File 1987-17). Analytical results of a sample of rauhaugite collected in 1978 are 0.35 per cent strontium, 0.4 per cent niobium, 2 per cent phosphorus and 0.0254 per cent thorium (Fieldwork 1979).

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EMPR OF 1987-17; 1990-32
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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1987/07/29 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 037

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 083D 038

NATIONAL MINERAL INVENTORY:

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PAGE:

MINING DIVISION: Golden

UTM ZONE: 11 (NAD 83)

NORTHING: 5804317

EASTING: 420519

REPORT: RGEN0100

Copper

1237

NAME(S): PUNCH BOWL, PUNCH

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 083D08E BC MAP:

LATITUDE: 52 23 00 N

LONGITUDE: 118 10 04 W ELEVATION: 2200 Metres

LOCATION ACCURACY: Within 500M

COMMODITIES: Gold

COMMENTS: Location is of the center of the Punch claim group (Assessment Report

19354).

Silver

**MINERALS** 

SIGNIFICANT: Gold Galena Sphalerite Pyrite

COMMENTS: Chalcopyrite may also have been observed.

ASSOCIATED: Quartz Mica K-Feldspar Carbonate Hematite ALTERATION: Limonite

COMMENTS: Bedding parallel veins weather recessively and locally exhibit surface gossan resulting from the oxidation of pyrite (Assessment Report 19354).

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform Concordant

CLASSIFICATION: Hydrothermal TYPE: E03 Carbo **Epigenetic** 

Carbonate-hosted disseminated Au-Ag

SHAPE: Tabular MODIFIER: Folded

DIMENSION: 50 Metres STRIKE/DIP: 325/70W TREND/PLUNGE: 145/20

COMMENTS: Tight to isoclinal, overturned mesoscopic folds are northeast verging.

Axial planes dip moderately to steeply southwest. Fold axes trend 140 to 150 degrees, plunging gently southeast (CJES Vol. 27, pp. 477-493).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

**GROUP** 

STRATIGRAPHIC AGE Cambrian Gog

**FORMATION McNaughton** 

LITHOLOGY: Feldspathic Quartzite Pelitic Quartzite

Quartzitic/Quartzose Pelite

Breccia Conglomerate Arenite Grit

**Psammite** Carbonate

GEOLOGICAL SETTING
TECTONIC BELT: Foreland

PHYSIOGRAPHIC AREA: Continental Ranges

TERRANE: Ancestral North America

METAMORPHIC TYPE: Regional

RELATIONSHIP: Post-mineralization

GRADE: Greenschist

Amphibolite

IGNEOUS/METAMORPHIC/OTHER

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1989

SAMPLE TYPE: Rock

**GRADE** 

COMMODITY Silver 0.4000 Grams per tonne 26.2900 Gold Grams per tonne COMMENTS: Gold and silver analyzed by atomic absorption spectroscopy and fire

assay.

REFERENCE: Assessment Report 19354.

CAPSULE GEOLOGY

The Punch Bowl showing occurs in the Punch claims, which lie at the boundary between the eastern and the western Main Ranges of the Continental Ranges at Athabasca Pass, approximately 60 kilometres

> MINFILE NUMBER: 083D 038

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

south-southwest of Jasper. This boundary is coincident with the continental divide. The boundary at this latitude is marked by the southwest dipping Chatter Creek thrust fault. Southwest of the Punch claims, the hanging wall of the Chatter Creek thrust is composed of grits, pelites, psammites and carbonates of the Hadrynian Miette Group and overlying Lower Cambrian clastics of the Gog Group. The region is dominated by broad open folds comprising the Baker Glacier syncline and Porcupine Creek anticlinorium. Northwest of the claims, the Chatter Creek thrust sheet contains the Fraser River antiform. Within the Chatter Creek thrust sheet, metamorphic grade increases westward from greenschist to kyanite-staurolite bearing assemblages of amphibolite grade.

The footwall of the Chatter Creek thrust sheet to the north and east is composed of the Lower Cambrian Gog Group, overlain by a series of thickly bedded, dominantly carbonate rocks of Middle Cambrian age striking 325 degrees and dipping 20 degrees. Tight to isoclinal, overturned mesoscopic folds occurring within imbricate quartzite slices, within this thrust sheet, have fold axes that trend 140 to 150 degrees and plunge gently southeast.

Within the claim area, the Gog Group strata are subdivided into the lowermost McNaughton, the Mural and uppermost Mahto formations, in the immediate footwall of the Chatter Creek Thrust. Gold mineralized quartz veins are contained solely within the McNaughton Formation. The predominant lithology is a medium to coarse grained, moderate to poorly sorted, pale weathering, gray feldspathic quartzite. Other lesser lithologies include pelite and conglomerate. Paleo-environmental interpretations of the McNaughton Formation

Paleo-environmental interpretations of the McNaughton Formation include a tidally dominated association of a shallow marine shelf environment in the Eastern Main Ranges to tidal complex transitions in more westerly outcrops.

Gold-quartz mineralization is contained in a series of discrete vein structures confined to quartzites and lesser pelites of the McNaughton Formation. Over 20 veins have produced anomalous gold values; although distribution of gold within individual veins is highly erratic. Visible gold has been observed. Thus far, only bedding parallel veins contain high grade gold mineralization. These veins vary from a few centimetres thick by 1 metre long, up to 70 to 100 centimetres wide by 50 metres long. Observations show all bedding parallel veins intrude pelite and/or quartzite with breccia textures common within veins. Vein size and distribution is fundamentally controlled by the geometry and distribution of the original pelitic layers, particularly where pelitic horizons contain greater than 30 per cent detrital quartz.

Quartz is the dominant vein filling phase, comprising over 95

Quartz is the dominant vein filling phase, comprising over 95 per cent of the total vein volume. Variable and unevenly distributed pyrite, native gold, galena, sphalerite, carbonate and white mica, and potassium feldspar comprise the remaining modal fraction. The distribution of hydrothermal vein constituents is markedly higher in zones of intense pelite brecciation. The majority of quartz was deposited as open space filling during multiple phases of vein opening. Two broad generations of vein filling have been recognized in the building of bedding parallel veins. The second stage of vein filling represents a late incursion of hydrothermal fluids during which most of the gold was deposited. Wall rock alteration is noticeably absent adjacent to most bedding parallel veins but wall rock sulphidization likely accompanied gold stage vein filling.

With respect to regional deformation, gold mineralization appears to be late stage; hence, structures and veining associated with incipient phase three deformation may prove significant. Gold emplacement and discordant veining were confined to the onset of late compressional deformation leading to the development of the Chatter Creek thrust.

A sample taken from approximately the 2088 metre level of McGillivray Ridge was analyzed for a 32 element suite. Partial results of these analyses are: 26.29 grams per tonne gold and 0.40 gram per tonne silver (Assessment Report 19354).

# **BIBLIOGRAPHY**

EMPR ASS RPT \*16242, \*19354 GSC MAP 15-1967, 1339A GSC OF 2324 GSC P 86-1A, pp. 177-183; 91-1E, pp. 5-11 CJES \*Vol. 27, pp. 477-493 GAC Special Paper Number 6, pp. 7-25 GCNL #15,#167, 1988

DATE CODED: 1987/12/14 CODED BY: GJP FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 039

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

NORTHING: 5816461 EASTING: 298553

REPORT: RGEN0100

1239

NAME(S): **AZURE LAKE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083D05W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 52 27 40 N LONGITUDE: 119 57 55 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: Kyanite locality in area 1, figure 5, Open File 1988-26.

> COMMODITIES: Kyanite Sillimanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Garnet Sillimanite **Biotite** Muscovite Quartz Plagioclase

Staurolite ALTERATION: Sericite Chlorite

COMMENTS: Fine grained sericite-chlorite alteration of garnet represents late

retrograde metamorphism (Canadian Journal of Earth Sciences, Vol. 14,

No. 7, pp. 1690-1695).
ALTERATION TYPE: Propylitic MINERALIZATION AGE: Mesozoic

DEPOSIT

CHARACTER: Layered Stratabound CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 SHAPE: Tabular Kyanite-sillimanite schists

MODIFIER: Folded

COMMENTS: Whole rock Rb-Sr dates of 138+/-12 Ma and 163+/-7 Ma obtained from granodiorite stocks in Wells Gray Provincial Park restrict the age of

metamorphism to Upper Triassic to Upper Jurassic (CJES Vol. 14, No. 7)

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Formation** 

Hadrynian Horsethief Creek Hadrynian Kaza

Undefined Formation Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Pelite

Pelitic Schist Phyllite

Quartzofeldspathic Grit

Marble Quartzite Calc-silicate Diamictite Conglomerate

Area is underlain by a sequence of undifferentiated Hadrynian Windermere Supergroup metasediments (Open File 1988-26). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

ONIC BELT: Omineca TERRANE: Kootenay PHYSIOGRAPHIC AREA: Cariboo Mountains TECTONIC BELT:

Barkerville METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

COMMENTS: Showing is on the northeastern margin of Shuswap Metamorphic Complex.

CAPSULE GEOLOGY

The Canoe River map area is predominantly underlain by a undifferentiated sequence of Hadrynian metasedimentary strata, belonging to the Windermere Supergroup (Miette, Horsethief Creek and Kaza groups) and their basement gneisses. Horsethief Creek Group strata in the Canoe River area are locally sufficiently pelitic to produce abundant garnet and aluminosilicate minerals when subjected

to high-grade regional metamorphism (Open File 1988-26).

Detailed mapping in Wells Gray Provincial Park has outlined a complex, polyphase geologic history with four deformational and two metamorphic episodes. Regional metamorphic assemblages rapidly increase from lower greenschist, in the Braithwaite Creek area, upper amphibolite facies at the margin of the Shuswap Metamorphic Complex, immediately west of the Azure Lake showing (Canadian Journal

of Earth Sciences, Vol. 14, No. 7, pp. 1630-1635).

MINFILE NUMBER: 083D 039

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

In the Cariboo Mountains, north of Azure Lake, strata, which most likely correlate with the lower Kaza or Horsethief Creek groups, contain abundant locally kyanite-sillimanite-staurolite-garnet-biotite and/or muscovite-bearing pelite. Other lithologies probably correlative with the lower Kaza Group include quartzite, calc-silicate, diamictite and conglomerate. The lower carbonate unit of the lower Kaza Group consists of phyllite quartzofeldspathic grit and marble (Geological Survey of Canada Open File 2324). Pelites locally contain 2 to 15 per cent garnet, 0 to 15 per cent coarse kyanite porphyroblasts and traces to 15 per cent sillimanite, predominantly in the form of fibrolite (Pigage, 1978).

# **BIBLIOGRAPHY**

EMPR AR 1920-N95-N96; 1931-A148-A149; 1947-A215-A216; 1952-A258; 1964-185-186; 1965-185-186
EMPF OF \*1988-26, p. 12, Figure 5
GSC MAP 15-1967; 1339A
GSC OF 2324
GSC P 87-1A, pp. 735-742
CJES \*Vol. 14, No. 7, pp. 1630-1635
Pigage, L.C. (1978): \*Metamorphism and deformation on the northeast margin of the Shuswap Metamorphic Complex, Azure Lake, British Columbia; Unpublished Ph.D. thesis, University of British Columbia, Vancouver, British Columbia, p. 289
Falconbridge File

 DATE CODED:
 1988/03/30
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 JP
 FIELD CHECK:
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 DATE REVISED:
 1991/12/09
 REVISED BY:
 KJM
 FIELD CHECK:
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MINFILE NUMBER: 083D 039

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 040

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Kamloops

NORTHING: 5792123

**EASTING: 347498** 

REPORT: RGEN0100

1241

NAME(S): THUNDER RIVER, NORTH THOMPSON RIVER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 083D06E 083D06W BC MAP: UTM ZONE: 11 (NAD 83)

LATITUDE: 52 15 30 N LONGITUDE: 119 14 04 W ELEVATION: 1675 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: The southern of two west-northwest striking bands present; the

location data is for the east end of the southern band (area 3,

figure 5, Open File 1988-26).

COMMODITIES: Kyanite

Garnet

**MINERALS** 

SIGNIFICANT: Kyanite Garnet

ASSOCIATED: Sillimanite Star MINERALIZATION AGE: Lower Cretaceous Staurolite **Biotite** Muscovite Quartz

ISOTOPIC AGE: 135 +/- 4 Ma DATING METHOD: Unknown MATERIAL DATED: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratabound Lavered

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

COMMENTS: The age of mineralization is for the main metamorphic event

(Geological Survey of Canada Paper 90-1E, pp. 71-80).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Horsethief Creek Undefined Formation Hadrynian **Undefined Formation** Kaza

Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Pelitic Schist

Quartzofeldspathic Psammite

Amphibolite Marble Calc-silicate Diamictite Conglomerate Quartzite

Quartzofeldspathic Grit Graphitic Phyllite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay Barkerville METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

COMMENTS: Showing is on the northeastern margin of Shuswap Metamorphic Complex.

CAPSULE GEOLOGY

The Canoe River map area is predominantly underlain by a sequence of folded Hadrynian metasedimentary strata, belonging to the Windermere Supergroup (Miette, Horsethief Creek and Kaza groups) and

their basement gneisses.

Lithologies of the lower Kaza Group include pelitic schist (locally kyanite-sillimanite-staurolite-garnet-biotite and/or muscovite-bearing), amphibolite, marble, calc-silicate, diamicite, conglomerate and quartzite. Quartzofeldspathic psammite and grit, pelitic schist, amphibolite and graphitic phyllite comprise lithologies of the Upper Clastic division of the Horsethief Creek Group.

Strata of the lower Kaza and Horsethief Creek groups in the Canoe River area are locally sufficiently pelitic to produce abundant garnet and aluminosilicate minerals when subjected to high-grade regional metamorphism (Open File 1988-26).

In the southeastern Cariboo Mountains, approximately 30 kilometres southwest of Valemount, pelitic schists locally contain up to 20 per cent kyanite, up to 15 per cent fibrolitic sillimanite and up to 25 per cent garnet (Pell, 1984). Kyanite grains are commonly in

> MINFILE NUMBER: 083D 040

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

excess of 2 centimetres in length. These extremely aluminous pelitic strata are largely confined between a carbonate marker horizon in the lower Kaza Group and the Middle Marble division of the underlying Horsethief Creek Group. Less commonly, aluminous pelitic horizons are present in the Horsethief Creek Group Semipelite-Amphibolite division, immediately underlying the Middle Marble Division. Pelitic schists in this region also frequently contain quartz-kyanite-rich segregation lenses.

### **BIBLIOGRAPHY**

EMPR AR 1920-N95-N96; 1931-A148-A149; 1947-A215-A216; 1952-A258; 1964-185-186; 1965-185-186

EMPF OF \*1988-26, p. 12, Figure 5

GSC MAP 15-1967; 1339A

GSC OF 2324

GCS P 84-1A, pp. 91-94

CJES \*Vol. 14, No. 7, pp. 1630-1635; Vol. 24, No. 2, pp. 302-313

Pell, J. (1984): \*Stratigraphy, structure and metamorphism of Hadrynian strata in the southeastern Cariboo Mountains, British Columbia; Unpublished Ph.D. thesis, University of Calgary, p. 185

DATE CODED: 1988/03/30 CODED BY: JP FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

MINFILE NUMBER: 083D 040

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 041

NATIONAL MINERAL INVENTORY:

NAME(S): WARSAW MOUNTAIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D01W BC MAP:

UTM ZONE: 11 (NAD 83)

PAGE:

REPORT: RGEN0100

1243

LATITUDE: 52 01 32 N LONGITUDE: 118 23 51 W ELEVATION: 2621 Metres NORTHING: 5764802 EASTING: 404118

MINING DIVISION: Revelstoke

LOCATION ACCURACY: Within 500M

COMMENTS: A 10 centimetre zone with 5 centimetre long kyanite blades is indicated on Map 4 at station 47 (Mitchell, W.J. (1976)).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite ASSOCIATED: Garnet
MINERALIZATION AGE: Cretaceous

Biotite

MATERIAL DATED: Zircon, Monazite

DEPOSIT

CHARACTER: Layered CLASSIFICATION: Metamorphic Disseminated Stratiform Massive

Industrial Min.

TYPE: P02 Kyanite-sillimanite schists SHAPE: Tabular MODIFIER: Folded

ISOTOPIC AGE: circa 100 Ma

TREND/PLUNGE: DIMENSION: 3000 x 30 Metres STRIKE/DIP:

DATING METHOD: Uranium/Lead

COMMENTS: A prominent kyanite-rich zone can be traced over 3 kilometres and is up to 30 metres wide (Mitchell, 1976). Upper amphibolite facies

metamorphic conditions were reached at circa 100 Ma (Geology Vol. 18).

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** Hadrynian Horsethief Creek Unnamed/Unknown Formation

LITHOLOGY: Kyanite Schist

Pelite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Selkirk Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: Svn-mineralization

GRADE: Amphibolite

# **CAPSULE GEOLOGY**

The Warsaw Mountain occurrence is located on the southeast spur of Warsaw Mountain and is one of several kyanite occurrences within a 9 kilometre radius from Warsaw Mountain. Most occurrences occur along a northwest trending belt extending northwestly from Warsaw Mountain along Fred Laing Ridge to the confluence of Potlatch Creek with McNaughton Lake and southeastward through the head waters of Yellow Creek.

The area is underlain primarily by metasedimentary rocks of the Hadrynian Horsethief Creek Group. Three phases of intense folding have been recognized and have been affected by Barrovian metamorphism ranging from the garnet zone to the sillimanite zone of amphibolite grade. Phase 1 and 2 of folding are characterized by very tight to isoclinal folds with narrow hinge zones. A penetrative, axial planar schistosity is associated with them. In areas of higher metamorphic grade, migmatite and pegmatite constitute 10 to 30 per cent by volume of the rocks. Phase 3 folding is unevenly distributed thoughout the area. Folds generally have southwest dipping axial surfaces and a steeply dipping crenulation cleavage associated with them. Temperatures of metamorphism have been established between 540 and 585 degrees celcius and pressures between 5 and 8 kilobars (Geological Survey of Canada Paper 77-1C). Upper amphibolite facies metamorphic conditions were reached in the northern Monashee

Mountains at circa 100 Ma (Geology Vol. 18, pp. 103-106). In the Warsaw Mountain area kyanite is present in localized pelitic horizons near the base of the Semipelite-Amphibolite division (Geological Society of America Memoir 153), the Aluminous Pelite unit (Open File 1988-26) or Lower Pelite unit (Geological Survey of Canada Open File 2324) of the Horsethief Creek Group. Kyanite is rare in the Northern Semipelite unit (Mitchell, 1976), but when found,

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

porphyroblasts in this horizon are abundant and up to 5 centimetres in length. A prominent kyanite-rich zone is located 400 metres north of the Northern Semipelite unit-Pelite unit contact. This zone is up to 30 metres wide and can be traces along strike for over 3 kilometres (Mitchell, 1976). Kyanite at the Yellow Creek (083D 007) showing may occur along the southern extension of this zone. Elsewhere in the Northern Semipelite unit (Mitchell, 1976), kyanite is found in abundance at the head waters of Potlatch Creek (083D 021) and on the ridge northeast of Potlatch Creek. Kyanite also occurs disseminated throughout the Pelite unit (Mitchell, 1976). Individual crystals are generally less than one centimetre long.

# **BIBLIOGRAPHY**

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EMPR OF \*1988-26
GSC MEM 153, pp. 445-461
GSC OF \*2324
GSC P 66-1; \*77-1C
Geology Vol. 18, pp. 103-106, 1990
Mitchell, W.J. (1976): Structure and stratigraphy of the Warsaw Mountain area, British Columbia; unpublished M.Sc. thesis, Univeristy of Calgary, Alberta.

Perkins, M.J. (1983): Structural geology and stratigraphy, Big Bend of the Columbia River, Selkirk Mountains, British Columbia; unpublished Ph.D. thesis, Carleton University, Ottawa, Ontario.

 DATE CODED:
 1988/03/30
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 FIELD CHECK:
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 DATE REVISED:
 1991/12/09
 REVISED BY:
 KJM
 FIELD CHECK:
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MINFILE NUMBER: 083D 041

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 042

NATIONAL MINERAL INVENTORY:

NAME(S): **HOWARD CREEK GARNET** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D07W BC MAP:

UTM ZONE: 11 (NAD 83)

MINING DIVISION: Kamloops

PAGE:

REPORT: RGEN0100

1245

LATITUDE: 52 23 37 N

NORTHING: 5806519 EASTING: 370623

LONGITUDE: 118 54 05 W ELEVATION: 2280 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of area 4, figure 5, Open File 1988-26.

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Kyanite

**Biotite** MINERALIZATION AGE: Cretaceous

ISOTOPIC AGE: circa 100 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon, Monazite

**DEPOSIT** 

CHARACTER: Layered Stratabound Disseminated

CLASSIFICATION: Metamorphic TYPE: P02 Kyan Industrial Min. Kyanite-sillimanite schists

SHAPE: Tabular

MODIFIER: Folded

COMMENTS: Upper amphibolite facies metamorphic conditions were reached in the

northern Monashee Mountains at circa 100 Ma (Geology Vol. 18, pp 103-

DOMINANT HOSTROCK: Metasedimentary

TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hadrynian Horsethief Creek Undefined Formation

LITHOLOGY: Pelitic Schist

Calc-silicate Metabasite Pegmatite Granodiorite Carbonatite

Quartzofeldspathic Psammite Quartzofeldspathic Grit

Amphibolite

Marble

HOSTROCK COMMENTS: Pelitic schists are locally kyanite-sillimanite-garnet-staurolite-

biotite and/or muscovite bearing (GSC Open File 2324).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca
TERRANE: Ancestral North America PHYSIOGRAPHIC AREA: Monashee Mountains

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The Canoe River map area is predominantly underlain by a sequence of folded Hadrynian metasedimentary strata, belonging to the Windermere Supergroup (Miette, Horsethief Creek and Kaza groups) and their basement gneisses. Horsethief Creek Group strata in the Canoe River area are locally sufficiently pelitic to produce abundant garnet and aluminosilicate minerals when subjected to high-grade

regional metamorphism.

A variety of lithologies crop out in the northern Monashee Mountains. Metasediments and metabasites of the Hadrynian Horsethief Creek Group are dominant and all are intruded by locally abundant pegmatite pods and layers. The Semipelite-Amphibolite division of the Horsethief Creek Group underlies most of the field area with a thin calc-silicate zone and the lower Pelite unit being infolded into the Semipelite-Amphibolite unit. Pelite, calc-silicate, metabasite, pegmatite, granodiorite and carbonatite have been mapped during the course of a regional project on the metamorphism and structure of the area (Geological Survey of Canada Paper 89-1E, pp. 95-100). recent compilation of the Canoe River area quartzofeldspathic psammite and grit, pelitic schist, amphibolite and marble comprise the Semipelite-Amphibolite division. For a more detailed explanation of the regional geology refer to the Howard Creek Carbonatite showing

> MINFILE NUMBER: 083D 042

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

(083D 043) and the Verity showing (083D 005). At the headwaters of Howard Creek, approximately 30 kilometres southeast of Valemont, pelitic schists and pelites in the Horsethief Creek Group Semipelite-Amphibolite division contain 20 to 25 per cent coarse garnets which range in size from 2 to 6 centimetres in diameter (Open File 1988-26). Garnet is also common phase in all other lithologies throughout the area. Kyanite is also present, but not abundant at this locality.

# **BIBLIOGRAPHY**

EMPR BULL 86 (in press)
EMPR OF 1987-17; \*1988-26, p. 12, Fig. 5
GSC MAP 15-1967, 1339A GSC OF 2324 GSC P 86-1B, pp. 693-698; \*87-1A, pp. 751-756; \*89-1E, pp. 95-100 CJES Vol. 25, No. 8, pp. 1323-1337, 1988 Geology Vol. 18, pp. 103-106, 1990

DATE CODED: 1988/03/30 DATE REVISED: 1991/12/09 CODED BY: JP REVISED BY: KJM FIELD CHECK: Y

MINFILE NUMBER: 083D 042

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 043

NATIONAL MINERAL INVENTORY: 083D7 Sr1

PAGE:

REPORT: RGEN0100

1247

NAME(S): HOWARD CREEK CARBONATITE, TOP, TOP 1-4, TOP 1, 7803, 7804

STATUS: Showing MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D07W UTM ZONE: 11 (NAD 83)

BC MAP:

LATITUDE: 52 23 15 N LONGITUDE: 118 53 21 W NORTHING: 5805818 EASTING: 371436

ELEVATION: 2300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of carbonatite (urtite) zone (figure 23, Fieldwork 1984).

COMMODITIES: Strontium Phosphorus Phosphate Tantalum Lanthanum

Cerium Neodymium Rare Earths Niobium

**MINERALS** 

SIGNIFICANT: Pyrochlore Columbite Apatite

COMMENTS: Refer to capsule for a detailed mineralogy.

ASSOCIATED: Calcite Dolomite Hornblende Clinopyroxene Amphibole Phlogopite Sphene **Biotite** 

COMMENTS: Deposit classification is metasomatic.

ALTERATION: Amphibole **Biotite** Albite Perthite

COMMENTS: See comment under associated minerals.

ALTERATION TYPE: Fenitic
MINERALIZATION AGE: Devonian-Mississipp.

ISOTOPIC AGE: circa 350 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Stratiform Layered Massive

CLASSIFICATION: Metamorphic Industrial Min. TYPE: N01 Carbonatite-hosted deposits SHAPE: Tabular MODIFIER: Folded Faulted

DIMENSION: 300 x STRIKE/DIP: 090/40S TREND/PLUNGE: Metres

COMMENTS: Uranium-lead age dates on zircon from the Verity and Paradise showings

of 325 and 340 Ma respectively indicate a mid-Paleozoic (Devono-Mississippian) age of emplacement (Bulletin 86, in press).

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Horsethief Creek **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hadrynian Undefined Formation Protérozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Carbonatite Urtite

liolite

Nepheline Syenite Sphene Amphibolite Pelitic Schist Calc-silicate Pegmatite Granodiorite Marble

HOSTROCK COMMENTS: Carbonatites are hosted in the Semipelite-Amphibolite unit.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Monashee Mountains ONIC BELT: Omineca TERRANE: Kootenay TECTONIC BELT:

RELATIONSHIP: Post-mineralization METAMORPHIC TYPE: Regional GRADE: Amphibolite

COMMENTS: Carbonatites in central (Omineca) division of carbonatite belt.

INVENTORY

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/a	nalysis	YEAR: 1987
COMMODITY	GRADE	
Cerium	0.0530	Per cent
Lanthanum	0.0241	Per cent
Neodymium	0.0223	Per cent
Phosphorus	5.4500	Per cent
Strontium	0.3120	Per cent
O E'I 4007.47	40	

REFERENCE: Open File 1987-17, page 42.

#### **CAPSULE GEOLOGY**

The Howard Creek carbonatite is located at the headwaters of Howard Creek, 13 kilometres east of McNaughton Lake and 41 kilometres northeast of Blue River.

Carbonatites are hosted in a series of Hadrynian Horsethief Creek Group, Semipelite-Amphibolite division pelitic schists of amphibolite grade (kyanite zone), exposed at approximately 2300 metres in a south-facing cirque. Other lithologies belonging to the Semipelite-Amphibolite division in the area include calc-silicate, pegmatite, granodiorite and marble. At least three phases of structural deformation have been recognized. Multiphase folding and dextral en-echelon faulting have displaced all rocks. The regional foliation strikes 090 and dips 40 degrees south. The regional geology is described in detail in the Verity carbonatite showing (083D 005). At least two separate carbonatite bodies conformable to the

At least two separate carbonatite bodies conformable to the regional schistosity have been identified over 300 metres stratigraphic thickness. These outcrops vary from 10 to 20 centimetres in thickness. Separate bands of sovite and rauhaugite comprise carbonatite outcrops. Infrequent boudins of coarse grained amphibolite, 5 to 50 centimetres long, are found within carbonatite and nepheline syenite. Dragfolds and tight crenulations are evident in carbonatites, particularly near contacts with the host rock. This evidence suggests that carbonatites were transposed parallel to the regional foliation during the first deformational event. Other lithologies described at the Howard Creek Carbonatite showing include urtite, ijolite and nepheline syenite (Open File 1987-17).

Minerals identified in the carbonatites include calcite, dolomite, apatite, richterite, hornblende (edenite possibly), clinopyroxene, sphene, biotite, phlogopite, nepheline, zircon, pyrochlore, baddeleyite, ilmenite, magnetite, pyrite, pyrrhotite and plagioclase. Coarse biotite bands, up to 20 centimetres wide, are in contact with nepheline syenite. A nepheline syenite body, about 5 by 20 metres in outcrop, appears concordant with the schist/carbonatite complex.

Eighteen semi-quantitative analyses from the carbonatites and associated rocks yielded 0.25 to 0.5 per cent strontium with an average content of 0.35 per cent (Fieldwork 1984, p. 99). Some elements from the carbonatites and their quantities as determined by spectrographic methods and expressed in per cent are: phorphorous, greater than 2.0, strontium 0.2, barium 0.05, zirconium 0.04, chromium 0.01, lanthanum 0.03, cerium 0.03, neodymium 0.03; there are also trace amounts of gallium, tin, yttrium, ytterbium, and niobium (columbium) (Fieldwork 1984). Later chemical analyses of a sovite sample returned the following values in per cent: 0.312 strontium, 0.0241 lanthanum, 0.0530 cerium, 0.0223 neodymium and 5.45 P205 (Open File 1987-17, p. 42).

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```
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PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1989/12/08 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1991/12/09 REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 044

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 11 (NAD 83)

NORTHING: 5777772 EASTING: 341728

REPORT: RGEN0100

1250

 $\mbox{NAME(S): } \begin{tabular}{ll} \begin{$ 

STATUS: Developed Prospect MINING DIVISION: Kamloops

REGIONS: British Columbia NTS MAP: 083D03W

BC MAP:

LATITUDE:

LONGITUDE: 119 18 44 W ELEVATION: 914 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centred on main outcrop (Main zone) on top of a hill just

northwest of Blue River (Industrial Mineral File - Guillet, 1984).

COMMODITIES: Limestone **Building Stone** Marble

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Dolomite Silica **Biotite** Mica Pyrite Tremolite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 Limestone R04

Dimension stone - marble SHAPE: Tabular
DIMENSION: 180 x 120 x 44

STRIKE/DIP: 077/60S Metres TREND/PLUNGE: COMMENTS: Main zone; attitude of contact between limestone and gneiss.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hadrynian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Horsethief Creek Undefined Formation

Proterozoic-Paleoz. Shuswap Metamorphic Complex

LITHOLOGY: Limestone

Marble **Biotite Gneiss** 

Quartz Feldspar Porphyry

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Amphibolite

INVENTORY

ORE ZONE: MAIN REPORT ON: Y

> YEAR: 1984 CATEGORY: Indicated

1800000 Tonnes QUANTITY:

**GRADE** COMMODITY Per cent Limestone 53,6000

COMMENTS: Grade given for CaO from a 35.7-metre long drillhole intersection of

the main zone.

REFERENCE: Industrial Mineral File - Guillet, 1984.

CAPSULE GEOLOGY

The Blue River deposit outcrops on a low hill just northwest of the community of Blue River, a kilometre northwest of the Yellowhead

Highway (Highway 5).

This deposit has been explored for its calcitic marble since
1983. Blue River Mines Ltd. and Ekaton Industries Inc. have carried out an extensive program of mapping, diamond drilling and bulk sampling since 1984. In 1988, 7800 tonnes of limestone were crushed by Blue River Mines. The property has been inactive since this time because limestone requests were for decorative purposes only. In a reorganization in 1989, Blue River Mines changed its name to Techmin Canada Ltd. (Fischl, 1990).

The limestone (marble) is exposed in three major outcrops over the top of the hill, the largest being 180 by 120 metres in area (Main zone), 230 metres above the valley floor of the North Thompson River. The limestone is hosted in gneiss and pegmatite of the

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 08:48:46

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

Precambrian-Paleozoic(?) Shuswap Metamorphic Complex. Contacts with the enclosing gneiss strike 077 to 123 degrees and dip 45 to 60degrees south. Diamond drilling indicated the limestone underlying the Main zone is at least 44 metres thick.

The Main zone is comprised mostly of coarse-grained, white, massive limestone (marble), with some pale grey patches and a few medium-grained, medium grey to blue-grey beds. Only traces of disseminated biotite, white mica and pyrite are evident. Tremolite occurs in some fracture infillings. Several medium-grained, light to medium grey, dolomitic and siliceous beds up to 3.0 metres thick were encountered during drilling. These beds tended to be more micaceous and pyritic than the enclosing limestone. Some inclusions of quartz-feldspar pegmatitic and biotitic gneiss up to 4.6 metres thick were also encountered near surface. Some results from grab sampling and diamond drilling analyzed as follows (in per cent):

Diamond	Drillir	ng Gra	b Sampling
	53.60		53.6
	1.78		1.02
	0.23		0.71
	0.23		0.13
	0.09		-
	0.01		_
	0.04		_
	0.026		0.026
	0.03		0.020
	0.01		_
	41.6		-
ess	94.4		_
	Diamond	53.60 1.78 0.23 0.23 0.09 0.01 0.04 0.026 0.03 0.01	53.60 1.78 0.23 0.23 0.09 0.01 0.04 0.026 0.03 0.01

The drill results represent a 35.7-metre long drill hole intersection of the Main zone (Guillet, 1984). The grab sample results are an average of eight samples taken from the surface of the Main zone (Assessment Report 15725). The Main zone is estimated to contain 1.8 million tonnes of limestone based on diamond drilling (Guillet, 1984).

# **BIBLIOGRAPHY**

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DATE CODED: 1989/09/22 DATE REVISED: 1991/11/04 CODED BY: PSF REVISED BY: KJM FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 045

NATIONAL MINERAL INVENTORY:

NAME(S): **DOVE**, INGRID 1-4, DOVE 4, DOVE 1-6

STATUS: Showing REGIONS: British Columbia NTS MAP: 083D11E

BC MAP:

LATITUDE: 52 37 26 N LONGITUDE: 119 07 56 W ELEVATION: 1065 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zones, near the centre of the Ingrid 1-4 Claims

(Assessment Report 17427).

COMMODITIES: Gold

Copper

Silver

**MINERALS** 

SIGNIFICANT: Gold Chalcopyrite **Bornite** ASSOCIATED: Quartz ALTERATION: Malachite Hematite **Epidote** 

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Syngenetic
DIMENSION: 3

Vein

Metres

COMMENTS: Dimensions of the lower zone.

STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE

Hadrynian Upper Proterozoic **GROUP** Horsethief Creek

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

Kamloops UTM ZONE: 11 (NAD 83)

MINING DIVISION: Cariboo

NORTHING: 5832567 EASTING: 355674

REPORT: RGEN0100

1252

Unnamed/Unknown Informal

LITHOLOGY: Hornblende Quartz Gneiss

Quartz Biotite Muscovite Schist Hornblende Biotite Quartz Gneiss

Mica Schist **Biotite Schist** Quartz Mica Schist

Gneiss Schist Amphibolite Quartzite

HOSTROCK COMMENTS: Metamorphic rocks of the Upper Proterozoic Malton Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Omineca

PHYSIOGRAPHIC AREA: Cariboo Mountains

TERRANE: Kootenay METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: LOWER

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1990

SAMPLE TYPE: Grab

Per cent

**COMMODITY GRADE** Gold 8.6400 Grams per tonne Silver 51.9000 Grams per tonne

1.8200 Copper COMMENTS: Highest assay values from the lower zone.

REFERENCE: Assessment Report 17427.

CAPSULE GEOLOGY

The Dove showing is located on the Dove 4 claim, 165 metres above the Yellowhead highway (now covered by B.C. Hydro pole 67-1),

24 kilometres southeast of Valemount.

The North Thompson and Albreda River valleys have undergone little exploration since the Cariboo Gold Rush of the 1800s. In early 1970s, a stream sediment sampling program was done in the area by Hudson's Bay Minerals exploring for copper. The area received some interest in 1977 during exploration of the nearby Lempierre (083D 005) uranium deposit. In 1978, the Ingrid 1-4 claims (formerly

> MINFILE NUMBER: 083D 045

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

WM 1-4 claims) were staked by V. Trarup to cover malachite mineralization discovered while putting in the hydro line. Redbird optioned the Ingrid claims and staked the Dove 1-6 claims in about 1985 and, in 1986, conducted a geochemical survey. Prospecting in 1987 consisted of blasting and trenching a native gold showing, soil sampling on the Dove 3-4 and Ingrid 1-4 claims, geochemistry, 7 diamond drill holes, 7 pack sack holes, cat excavation of mineralized zones, mapping and a magnetometer survey. This work outlined two mineralized zones (upper and lower).

The area is underlain by Upper Proterozoic rocks of the Malton Gneiss Complex. These comprise quartz mica schist, amphibolite, hornblende and/or biotite quartz-feldspathic gneiss, quartzite, granitic orthogneiss and feldspar augen gneiss. The rocks on the property are predominantly quartz mica schist, amphibolite and hornblende gneiss. All rock types contain numerous massive white quartz veins and stringers. There have been several folding episodes resulting in a fold with a west-northwest axis. The North Thompson Valley fault runs from Valemount to Blue River. The strata generally dips south-southwest but is variable.

dips south-southwest but is variable.

The Dove occurrence consists of 2 vertically adjacent mineralized zones, containing gold and copper, and 2 mineralized stratiform units. The subsurface stratiform units are indicated by diamond drilling. Mineralization consists of native gold, malachite, bornite, and some hematite and chalcopyrite. Mineralization occurs along fractures and foliation surfaces and in quartz veins associated with biotite schist and hornblende gneiss.

A 70 metre exposure of the lower zone, about 3 metres wide, consists mainly of quartz veins, hornblende-quartz gneiss, quartz-biotite- muscovite gneiss and biotite schist. Assay values from samples ranged from 0.10 to 8.64 grams per tonne gold 0.2 to 51.9 grams per tonne silver and less than 0.01 to 1.82 per cent copper (Assessment Report 17427).

copper (Assessment Report 17427).

A 20 metre exposure of the upper zone, about 4 to 5 metres wide, consists mainly of quartz veins, hornblende-biotite-quartz gneiss, mica schist and quartz-mica gneiss. Assays values from samples ranged from 0.18 to 7.45 grams per tonne gold, 0.1 to 60.5 grams per tonne silver, and 0.01 to 1.77 per cent copper (Assessment Report 17427).

In general, drilling indicated low grades even in some sections which contain visible native gold. The most encouraging values occurred along trend of slickenside lineations which suggests that the deposit is, to some extent, structurally controlled. Mineralization, proven by drilling, occurs over an area of approximately 200 square metres.

Mineralization occurred relatively late and was associated with zones of deformation that apparently were confined mainly to less competent mafic rich units. Quartz veins, some mica schists and epidote rich layers in hornblende gneiss exhibit the highest degree of gold mineralization.

# **BIBLIOGRAPHY**

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1993/07/02 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 083D 045

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083E 001

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Cariboo

UTM ZONE: 11 (NAD 83)

NORTHING: 5959581

**EASTING: 309526** 

REPORT: RGEN0100

1254

NAME(S): **FORGETMENOT** 

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 083E13W BC MAP:

LATITUDE: 53 45 00 N LONGITUDE: 119 53 20 W ELEVATION: 1981 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Along the British Columbia-Alberta boundary at the headwaters of Forgetmenot and Fetherstonhaugh creeks (Open File 1991-15).

COMMODITIES: Gypsum

**MINERALS** 

SIGNIFICANT: Gypsum COMMENTS: Trace amounts of pyrite.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound Concordant Massive Industrial Min.

CLASSIFICATION: Evaporite TYPE: F02 B Sedimentary

Bedded gypsum

SHAPE: Tabular
DIMENSION: 500 x 100
COMMENTS: Gypsum beds. STRIKE/DIP: 135/30W Metres TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic **Undefined Group** Whitehorse

LITHOLOGY: Gypsum

Dolomite Limestone

**Brecciated Limestone** 

Sandstone Siltstone Breccia

The host Karnian Starlight Evaporite Member has been correlated with HOSTROCK COMMENTS:

the Charlie Lake Formation to the north.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Foreland

TERRANE: Ancestral North America

INVENTORY

ORE ZONE: FORGETMENOT REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1968

QUANTITY: 2300000 Tonnes

**GRADE** COMMODITY Per cent 90.0000 Gypsum

COMMENTS: The gypsum grade varies from 75 to 90 percent. There is a potential of 25 to 30 million tonnes if the deposit persists.

REFERENCE: Fieldwork 1988, page 504.

CAPSULE GEOLOGY

Gypsum of Triassic age occurs at a single locality straddling

the Alberta boundary at the headwaters of Forgetmenot and Fetherstonhaugh creeks. The occurrence was first described in detail

in 1961.

Gypsum intercalated with dolomite and minor limestone is present in several beds of the Upper Triassic Starlight Evaporite member of the Whitehorse Formation. This unit is assigned a Karnian age and is correlated with the Charlie Lake Formation which is host to extensive anhydrite deposits further to the north. The presence of anhydrite is known from oil and gas drilling. The Starlight member, the lowermost unit of the Whitehorse Formation, consists of a recessive buff to light grey weathering sequence of interbedded dolomites, limestones, siltstones and intraformational or solution breccias. the Forgetmenot Creek area, pale grey and yellowish brown to orange dolomite is intercalated with several gypsum beds. Also present are

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

lenses of dolomitic and calcareous siltstone and pale grey limestone.

Gypsum is present in a minimum of 4 beds ranging in thickness from 2 metres to greater than 26 metres. Locally, it contains solution breccia and lenses of dolomite. The gypsum is typically white to cream to pale pink in colour. It is laminated to thin bedded and locally massive. Trace amounts of pyrite are present.

The beds strike northwest with dips of 25 to 30 degrees

The beds strike northwest with dips of 25 to 30 degrees southwest. In outcrop, the gypsum can be traced along strike for 500 metres. The presence of sinkholes suggests that the gypsum may extend further south. Gypsum occurs over a minimum stratigraphic thickness of 100 metres and contacts between gypsum and overlying or underlying rocks are invariably marked by sinkholes up to several metres in diameter.

Drilling indicated that the gypsum grade is more variable at depth than in surface exposures. Gypsum content in the subsurface varied between 75 and 80 per cent while surface sampling indicated a purity greater than 90 per cent gypsum (Open File 1991-15). Sampling by Butrenchuk confirmed the high purity, varying from 84 to 98 per cent (Open File 1991-15).

Reserves on the property are estimated to be 2.3 million tonnes with a potential for 25 to 30 million tonnes if the gypsum persists along strike (Open File 1991-15).

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DATE CODED: 1988/11/22 CODED BY: SBB FIELD CHECK: Y
DATE REVISED: 1991/12/17 REVISED BY: SBB FIELD CHECK: N

PAGE:

REPORT: RGEN0100

1976:

1966:

Crude ore. Crude ore.

# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE007 NAME: KINGFISHER STATUS: Developed Prospect Production **Tonnes** Tonnes Kilograms **Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1976 12 Silver 187 830 1,157 Lead Zinc 1966 4 Silver 5,008 450 166 Lead Zinc **SUMMARY TOTALS: 082LNE007** NAME: KINGFISHER Metric **Imperial** Mined: 16 tonnes 18 tons Milled: tonnes tons Recovery: 5,195 grams 1,280 kilograms 1,323 kilograms 167 ounces 2,822 pounds 2,917 pounds Silver: Lead: Zinc: Comments:

MINFILE NUMBER: 082LNE007

PAGE: 1 REPORT: RGEN0200

1994:

#### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE025 **REVELSTOKE** STATUS: Producer NAME: **Production Tonnes Kilograms Tonnes** Grams <u>Mined</u> Commodity Recovered <u>Year</u> <u>Milled</u> Recovered 200 Flagstone 1996 200,000 1995 200 Flagstone 200,000 200 Flagstone 1994 200,000 1993 200 Flagstone 200,000 1992 200 Flagstone 200,000 1991 200 Flagstone 200,000 1990 200 Flagstone 200,000 1989 200 Flagstone 200,000 1988 161 Aggregate 122,000 Flagstone 39,000 1987 247 **Dimension Stone** 247,000 1986 145 **Dimension Stone** 145,000 **REVELSTOKE SUMMARY TOTALS: 082LNE025** NAME: **Metric Imperial** Mined: 2,153 tonnes 2,373 tons Milled: tons tonnes Recovery: 268,964 pounds 864,212 pounds 3,613,375 pounds 122,000 kilograms 392,000 kilograms 1,639,000 kilograms Aggregate: Dimension Stone: Flagstone: Comments:

1989-1994: Production averages 200 tonnes per year.

MINFILE NUMBER: 082LNE025

PAGE: 2 REPORT: RGEN0200

# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNE043 NAME: **MARLIME** STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled <u>Year</u> Recovered 1950 561 561 Marl 560,640 2,704 2,704 2,704,317 1949 Marl 1948 767 767 Marl 766,571 **SUMMARY TOTALS: 082LNE043** NAME: MARLIME **Metric Imperial** 4,445 tons 4,445 tons Mined: 4,032 tonnes Milled: 4,032 tonnes Recovery: Marl: 4,031,528 kilograms 8,887,995 pounds

MINFILE NUMBER: 082LNE043

PAGE: 3 REPORT: RGEN0200 RUN DATE: RUN TIME: 26-Jun-2003 08:58:08

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LNW001 NAME: **FALKLAND** STATUS: Producer **Production Tonnes Kilograms Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 10,215 10,215 1993 Gypsum 10,215,000 21,385 21,385 1992 Gypsum 21,385,000 1991 9,867 9,867 Gypsum 9,867,000 1990 15,252 15,252 Gypsum 15,252,000 1989 13,417 13,417 Gypsum 13,417,000 1988 6,472 6,472 Gypsum 6,472,000 1987 3,885 3,885 Gypsum 3,885,000 1986 3,710 3,710 Gypsum 3,710,000 1982 30,638 30,638 Gypsum 30,638,000 1956 1,250,000 1,250,000 Gypsum 1,250,000,000 **SUMMARY TOTALS: 082LNW001** NAME: **FALKLAND** <u>Metric</u> <u>Imperial</u> 1,504,480 tons 1,504,480 tons Mined: 1,364,841 tonnes 1,364,841 tonnes Milled: Recovery: Gypsum: 1,364,841,000 kilograms 3,008,958,495 pounds

Comments:

1956: Continuous production between 1926 and 1956.

MINFILE NUMBER: 082LNW001

PAGE: 4 REPORT: RGEN0200

RUN DATE: RUN TIME: 26-Jun-2003 08:58:08

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

198,416 pounds

PAGE: 5 REPORT: RGEN0200

MINFILE NUMBER: 082LNW026 NAME: QUARTZITE POINT STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1923 90 90 Silica 90,000 **SUMMARY TOTALS: 082LNW026** NAME: QUARTZITE POINT Metric **Imperial** Mined: Milled: 99 tons 99 tons 90 tonnes 90 tonnes Recovery:

90,000 kilograms

Silica: Comments: 1923: A shipment of quartzite.

MINFILE NUMBER: 082LNW026

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

PAGE: 6 REPORT: RGEN0200

MINFILE NUMBER:	082LNW058	NAME:	MCGILLIVRAY CREEK			STATUS:	Past Producer
Production <u>Year</u>		onnes Tonnes <u>Mined Milled</u>	Commodi	<u>ty</u>	Grams <u>Recovered</u>		Kilograms <u>Recovered</u>
1945			Go	old	124		
1940			Go	old	311		
SUMMARY TOTALS	: 082LNW058	NAME:	MCGILLIVRAY CREEK				
		Metric	<u>Imper</u>	<u>ial</u>			
Dagayamii	Mined: Milled:		tonnes tonnes	tor tor			
Recovery:	Gold:	435	grams	14 ou	nces		
Comments:	1945: 1940:	Production for the period 194 Production for the period 193	1-1945; unknown tonnage. 6-1940; unknown tonnage.				

MINFILE NUMBER: 082LNW058

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE001 NAME: MONASHEE STATUS: Past Producer Production Tonnes **Grams** Kilograms **Tonnes** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1940 103 Silver 8,865 1,804 Gold 1939 2,090 1,421 Silver 42,051 Gold 9,611 706 190 L<u>e</u>ad Zinc **SUMMARY TOTALS: 082LSE001** NAME: MONASHEE **Imperial** <u>Metric</u> 2,193 tonnes 2,417 tons 1,566 tons Mined: Milled: 1,421 tonnes Recovery: 1,637 ounces 367 ounces 1,556 pounds 419 pounds 50,916 grams Silver: 11,415 grams 706 kilograms Gold: Lead: Zinc: 190 kilograms

PAGE: 7 REPORT: RGEN0200

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE006 NAME: **LUMBY** STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1976 454 454 Silver 206,057 Gold 156 Copper Lead 654 12,746 5,485 Zinc 1973 5 Silver 8,149 216 Lead Zinc 196 1969 1,240 1,235 Silver 921,271 840 Gold Lead 44,104 Zinc 35,970 1968 297 Silver 561,813 Gold 218 Lead Zinc 15,151 9,196 NAME: LUMBY **SUMMARY TOTALS: 082LSE006 Metric Imperial** Mined: 1,991 tonnes 2,195 tons 1,694 tonnes Milled: 1,867 tons Recovery: 1,697,290 grams Silver: 54,569 ounces 39 ounces 1,442 pounds 159,211 pounds 1,214 grams 654 kilograms Gold: Copper: 72,217 kilograms 50,847 kilograms Lead: 112,098 pounds Zinc: Comments: 1976: Pb concentrate - 41 tonnes. 1973: 1969: Mill salvage - 5 tonnes. Crude ore - 777 tonnes; Pb and Fe concentrate - 59 tonnes.

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

PAGE: 9 REPORT: RGEN0200 MINFILE NUMBER: 082LSE008 NAME: PALADORA (L.2153) STATUS: Past Producer Production **Tonnes** Tonnes Kilograms Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 2,955 591 1938 45 Silver Gold 7,340 1935 54 Silver 1,431 Gold **SUMMARY TOTALS: 082LSE008** NAME: PALADORA (L.2153) <u>Imperial</u> Metric 109 tons tons Mined: Milled: 99 tonnes tonnes Recovery: 10,295 grams 2,022 grams 331 ounces 65 ounces Silver: Gold:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE010 NAME: ST.PAUL STATUS: Past Producer Production **Tonnes Tonnes Grams Kilograms** <u>Mined</u> Milled Commodity Recovered <u>Year</u> Recovered 1973 73 Silver 13,188 Gold 653 387 Zinc 69 47,028 560 30 1971 Silver Gold 1,711 Lead Zinc 107 7 1966 Silver 187 Gold Lead 37 Zinc 52 1927 10 Silver 51,475 Gold 187 1,585 1,030 Lead Zinc 1915 2,955 136 Gold 466 1914 136 Silver Gold 1,088 **SUMMARY TOTALS: 082LSE010** NAME: ST.PAUL **Metric Imperial** Mined: 392 tonnes 432 tons Milled: tonnes tons Recovery: 112,406 grams Silver: 3,614 ounces 5,630 grams 3,720 kilograms 1,258 kilograms 181 ounces Gold: 8,201 pounds 2,773 pounds Lead: Zinc: Comments: 1973: 1971: Crude ore -19 tonnes; silver concentrate - 4 tonnes. Crude ore - 30 tonnes. 1966: Siliceous ore - 7 tonnes.

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE011 NAME: SILVER BELL (L.4329) STATUS: Past Producer Production **Tonnes** Tonnes Kilograms Grams Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u> 43,171 311 1978 Silver Gold Lead 700 252 Zinc **SUMMARY TOTALS: 082LSE011** NAME: SILVER BELL (L.4329) **Metric Imperial** Mined: 14 tonnes 15 tons Milled: tonnes tons Recovery: 43,171 grams 311 grams 700 kilograms 252 kilograms 1,388 ounces 10 ounces 1,543 pounds 556 pounds Silver: Gold: Lead: Zinc:

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE013 NAME: CHERRY CREEK PLACER STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 2,799 1945 Gold 1940 Gold 373 280 1935 Gold 1930 Gold 93 1925 Gold 9,392 1895 Gold 29,732 1890 49,884 Gold 1885 Gold 32,904 1880 Gold 29,701 **SUMMARY TOTALS: 082LSE013** NAME: CHERRY CREEK PLACER Metric <u>Imperial</u> Mined: tonnes tons Milled: tonnes tons Recovery: Gold: 155,158 grams 4,988 ounces Comments: 1945: Tonnage unknown; period 1941-1945 (Bulletin 28, page 63). Tonnage unknown; period 1936-1940 (Bulletin 28, page 63). Tonnage unknown; period 1931-1935 (Bulletin 28, page 63). Tonnage unknown; period 1926-1930 (Bulletin 28, page 63). Tonnage unknown; period 1921-1925 (Bulletin 28, page 63). Tonnage unknown; period 1921-1926 (Bulletin 28, page 63). 1940: 1935: 1930: 1925: Tonnage unknown; period 1891-1895 (Bulletin 28, page 63). Tonnage unknown; period 1886-1890 (Bulletin 28, page 63). 1895: 1890: 1885: Tonnage unknown; period 1881-1885 (Bulletin 28, page 63). 1880: Tonnage unknown; period 1876-1880 (Bulletin 28, page 63).

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MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 082LSE031 NAME: HARRIS CREEK STATUS: Past Producer Production Tonnes Tonnes **Kilograms** Grams Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1945 Gold 3,483 1940 10,667 Gold NAME: HARRIS CREEK **SUMMARY TOTALS: 082LSE031** Metric <u>Imperial</u> Mined: tonnes tons Milled: tonnes tons Recovery: Gold: 14,150 grams 455 ounces Comments:

1945: 1940: Tonnage unknown; period 1941-1945 (Bulletin 28, page 63). Tonnage unknown; period 1936-1940 (Bulletin 28, page 63).

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 082LSE033 NAME: HECKMAN CREEK STATUS: Past Producer
Production Year Mined Milled Commodity Recovered Recovered

1940 Gold 124

SUMMARY TOTALS: 082LSE033 NAME: HECKMAN CREEK

Metric Imperial

Mined: tonnes tons Milled: tonnes tons

Recovery:
Gold: 124 grams 4 ounces

Comments: 1940: Tonnage unknown; period 1936-1940 (Bulletin 28, page 63).

MINFILE NUMBER: 082LSE033

1935:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSE046 NAME: **EUREKA CREEK** STATUS: Past Producer Production **Kilograms Tonnes** Tonnes Grams <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1945 Gold 622 62 1940 Gold 1935 187 Gold **SUMMARY TOTALS: 082LSE046** NAME: EUREKA CREEK **Metric** <u>Imperial</u> Mined: tonnes tons Milled: tonnes tons Recovery: 871 grams 28 ounces Gold: Comments: 1945: 1940: Tonnage unknown; period 1941-1945 (Bulletin 28, page 14). Tonnage unknown; period 1936-1940 (Bulletin 28, page 14). Tonnage unknown; period 1931-1935 (Bulletin 28, page 14).

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Production

<u>Year</u> 1945

1940

1935

MINFILE NUMBER:

Recovery:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

PAGE: 16 REPORT: RGEN0200 NAME: BARNES CREEK STATUS: Past Producer **Kilograms** Tonnes Grams Milled Commodity Recovered Recovered Gold 1,648 373 Gold 560 Gold NAME: **BARNES CREEK** 

**SUMMARY TOTALS: 082LSE053** 

**Tonnes** 

<u>Mined</u>

**Metric** <u>Imperial</u> Mined: tonnes tons Milled: tonnes tons 83 ounces

2,581 grams Gold: Comments:

082LSE053

1945: 1940: Tonnage unknown; period 1941-1945 (Bulletin 28, page 14). Tonnage unknown; period 1935-1940 (Bulletin 28, page 14). Tonnage unknown; period 1931-1935 (Bulletin 28, page 14). 1935:

MINFILE NUMBER: 082LSE053

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082LSE059	NAME:	MONASHEE	CREEK PLACE	<u>R</u>	STATUS: Past Producer
Production <u>Year</u>		onnes Tonnes <u>Mined</u> <u>Milled</u>		Commodity	Grams <u>Recovered</u>	3
1945				Gold	3,017	
1940				Gold	3,732	
SUMMARY TOTALS	: 082LSE059	NAME:	MONASHEE	CREEK PLACE	2	
		<u>Metric</u>		<u>Imperial</u>		
Danavanu	Mined: Milled:		tonnes tonnes		tons tons	
Recovery:	Gold:	6,749	grams	217	ounces	
Comments:	1945: 1940:	Tonnage unknown; period 194 Tonnage unknown; period 193	41-1945 (Bulleti 36-1940 (Bulleti	n 28, page 63). n 28, page 63).		

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 082LSE069 NAME: PUTNAM CREEK STATUS: Past Producer Production Tonnes **Tonnes Kilograms Grams** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u>

> 1940 Gold 155

**SUMMARY TOTALS: 082LSE069** NAME: PUTNAM CREEK

> **Metric Imperial**

Mined: tonnes tons Milled: tonnes tons

Recovery: 155 grams Gold: 5 ounces

Comments: 1940: Tonnage unknown; period 1936-1940 (Bulletin 28, page 63).

MINFILE NUMBER: 082LSE069

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW008 NAME: MOUNT VERNON STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1969 54 Silver 5,319 Gold Lead 31 1,150 444 Zinc 1950 10 Silver 6,812 93 Gold 1,261 Lead Zinc 63 **SUMMARY TOTALS: 082LSW008** NAME: MOUNT VERNON Metric **Imperial** Mined: 64 tonnes 71 tons Milled: tonnes tons Recovery: 12,131 grams 390 ounces Silver: 124 grams 2,411 kilograms 507 kilograms 4 ounces 5,315 pounds 1,118 pounds Gold: Lead: Zinc: Comments: Minister of Mines Annual Report 1969 page 429. Minister of Mines Annual Report 1950, page 115. 1969: 1950:

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW010 NAME: SILVER QUEEN (L. 1182) STATUS: Prospect Kilograms Production Tonnes Tonnes **Grams** Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u> 1950 2 Silver 2,395 364 31 Lead Zinc 2 1948 Silver 560 80 18 Lead Zinc **SUMMARY TOTALS: 082LSW010** NAME: SILVER QUEEN (L. 1182) Metric **Imperial** Mined: 4 tonnes 4 tons Milled: tonnes tons Recovery: 2,955 grams 444 kilograms 49 kilograms 95 ounces 979 pounds 108 pounds Silver: Lead: Zinc:

MINFILE NUMBER: 082LSW010

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW013 NAME: **SKOOKUM** STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1969 130 Silver 33,871 Silver Gold 14,090 249 1951 11 Copper 45 99 Lead 2,022 31 2 Silver 1941 Gold 50 1937 Silver 30,636 Gold 840 Lead 183 1936 1 Silver 3,795 Gold 62 33 Lead SUMMARY TOTALS: 082LSW013 NAME: SKOOKUM Metric **Imperial** Mined: 194 tonnes 214 tons Milled: tons tonnes Recovery: 84,414 grams Silver: 2,714 ounces 1,182 grams 45 kilograms 315 kilograms 38 ounces 99 pounds Gold: Copper: Lead: 694 pounds Comments: 1969: Crude ore.

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082LSW015		NAME:	<b>OCTAGON</b>		ST	ATUS: Prospect
Production <u>Year</u>	•	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1923		2			Silver Gold	2,550 62	
SUMMARY TOTALS: 082LSW015			NAME: <u>Metric</u>	OCTAGON	<u>Imperial</u>		
Pagavary:	Mined: Milled:		2	tonnes tonnes	2 to	ons ons	
Recovery:	Silver: Gold:		2,550 62	grams grams		unces	

MINFILE NUMBER: 082LSW015

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW024 NAME: **JUMBO (L. 4882)** STATUS: Prospect Production Tonnes Kilograms **Tonnes** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1940 Silver 373 342 Gold **SUMMARY TOTALS: 082LSW024** NAME: JUMBO (L. 4882) **Metric Imperial** Mined: 49 tonnes 54 tons Milled: tons tonnes Recovery: 373 grams 342 grams Silver: 12 ounces Gold: 11 ounces

MINFILE NUMBER: 082LSW024

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Silver:

Recovery:

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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16 ounces

MINFILE NUMBER: 082LSW027 NAME: BON DIABLE (L. 1179) STATUS: Showing Production Tonnes **Kilograms Tonnes** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1899 Silver 498 1 **SUMMARY TOTALS: 082LSW027** NAME: BON DIABLE (L. 1179) **Metric Imperial** Mined: Milled: 1 tonnes 1 tons tonnes tons

498 grams

MINFILE NUMBER: 082LSW027

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW029 NAME: OPHIR STATUS: Past Producer Production Tonnes Kilograms Tonnes Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1928 33 Silver 3,484 Gold Copper Lead 62 360 756 **SUMMARY TOTALS: 082LSW029** NAME: OPHIR **Metric Imperial** Mined: 33 tonnes 36 tons Milled: tonnes tons Recovery: 3,484 grams 62 grams 360 kilograms 756 kilograms 112 ounces 2 ounces 794 pounds 1,667 pounds Silver: Gold: Copper: Lead:

MINFILE NUMBER: 082LSW029

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW030 NAME: ROYAL AND PEERLESS STATUS: Prospect Kilograms Production Tonnes Grams **Tonnes** Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u> 1952 Silver 2,519 69 249 Lead Zinc 1942 1 Silver 31 20 29 Lead Zinc **SUMMARY TOTALS: 082LSW030** NAME: ROYAL AND PEERLESS Metric **Imperial** Mined: 5 tonnes 6 tons Milled: tonnes tons Recovery: 2,550 grams 89 kilograms 278 kilograms 82 ounces Silver: 196 pounds 613 pounds Lead: Zinc: Comments:

1952: From the Royal, crude ore. 1942: From the Peerless.

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW034 NAME: BRITISH EMPIRE (L. 2539) STATUS: Past Producer Production Tonnes Grams **Kilograms Tonnes** Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u> 1906 27 Silver 62 187 Gold 1905 80 Silver 62 591 Gold 218 1903 78 Silver 1,244 Gold **SUMMARY TOTALS: 082LSW034** NAME: BRITISH EMPIRE (L. 2539) Metric **Imperial** 185 tonnes 204 tons Mined: Milled: tonnes tons Recovery: 342 grams Silver: 11 ounces Gold: 2,022 grams 65 ounces

MINFILE NUMBER: 082LSW034

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	082LSW042	NAME:	WHITE ELEPHANT (L. 4880	)	STATUS: Past Producer
Productior <u>Year</u>				Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1935	5 1,66	1,668	Silver Gold		
1934	2,86	31 2,812	Silver Gold		
1933	35	54 353	Silver Gold		
1922	2 20	64	Silver Gold		
SUMMARY TOTAL	<u>S</u> : 082LSW042	NAME:	WHITE ELEPHANT (L. 4880	)	
		<u>Metric</u>	<u>Imperial</u>		
Pagayary:	Mined: Milled:		tonnes 5,672 tonnes 5,327		
Recovery:	Silver: Gold:	9,549 63,170		ounces ounces	

MINFILE NUMBER: 082LSW042

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1968:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW049 NAME: WESTWOLD STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered Building Stone Limestone 1970 907 1 16,783 4,536 Aggregate Building Stone 58,060 1969 45,359 530,703 Limestone 45,359 226,796 272 1968 **Building Stone** Limestone **SUMMARY TOTALS: 082LSW049** NAME: WESTWOLD Metric **Imperial** Mined: Milled: 5,301 tons 4,809 tonnes tonnes tons Recovery: 58,060 kilograms 91,625 kilograms 128,000 pounds 201,998 pounds 1,706,999 pounds Aggregate: Building Stone: 774,282 kilograms Limestone: Comments: 1970: Production from stock pile.

1968-70: Geology, Exploration & Mining 1969, page 398.

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW050 NAME: KALAMALKA STATUS: Past Producer **Production Tonnes Kilograms Tonnes Grams** Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered 1944 29 Silver 995 311 Gold Silver 249 1943 34 311 Gold 1942 393 Silver 5,381 Gold 4,417 832 7,838 1941 Silver Gold 15,614 1940 464 Silver 5,754 5,225 Gold 1939 12,223 1,066 Silver 13,716 Gold 40,434 11,757 1938 1,158 Silver Gold 420 Lead 172 Zinc 1937 2,555 Silver 33,187 36,422 Gold 1936 34 Silver 871 Gold 1,431 Copper 27 27 1,120 1935 Silver Gold 933 Copper 181 **SUMMARY TOTALS: 082LSW050** NAME: KALAMALKA Metric **Imperial** Mined: 6,592 tonnes 7,266 tons Milled: tonnes tons Recovery: 108,052 grams 90,137 grams 208 kilograms 420 kilograms 3,474 ounces Silver: 2,898 ounces 459 pounds Gold: Copper: 926 pounds Lead: Zinc: 172 kilograms 379 pounds

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 082LSW064 NAME: **BRETT-BIRD** STATUS: Prospect Production Tonnes Kilograms **Tonnes** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1950 Mica 1,000 1

**SUMMARY TOTALS: 082LSW064** NAME: BRETT-BIRD

> Metric **Imperial** Mined: 1 tonnes

1 tons Milled: tonnes tons

Recovery: Mica: 1,000 kilograms 2,205 pounds

Comments: 1950: For period 1932-1950. Minister of Mines Annual Report 1950.

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW066 NAME: MOUNT ROSE (L. 2683) STATUS: Past Producer Production Tonnes **Kilograms** Tonnes Grams Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered 1975 800 Silica 800,000 1973 Silica 4,234,000 4,234 NAME: MOUNT ROSE (L. 2683) **SUMMARY TOTALS: 082LSW066** Metric <u>Imperial</u> 5,034 tonnes Mined: 5,549 tons Milled: tons tonnes Recovery: Silica: 5,034,000 kilograms 11,098,067 pounds Comments: 1973: Total is for 1968, 1969 and 1973 (Ann. Rpt 1968; GEM 1969,1973).

MINFILE NUMBER: 082LSW066

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	082LSW080		NAME:	SIWASH CREE	<u>EK</u>		STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>		Kilograms Recovered
1935		1			Gold	1,000	)	
1918		1			Gold	19,000	)	
1895		1			Gold	15,000	)	
SUMMARY TOTALS	S: 082LSW080		NAME:	SIWASH CREE	<b>K</b>			
			<u>Metric</u>		<u>Imperial</u>			
Dagayanı	Mined: Milled:			tonnes tonnes	3	tons tons		
Recovery:	Gold:		35,000	grams	1,125	ounces		
Comments:	1935: 1918: 1895:	From period	1924-1935. Tonn 1915-1918. Tonn 1889-1895. Tonn	ağe mined unkn	own.			

MINFILE NUMBER: 082LSW080

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082LSW086	NAME: WHITEMAN C	CREEK STATUS: Past Producer

Production Tonnes Tonnes Grams Kilograms <u>Year Mined Milled Commodity Recovered Recovered</u>

1940 1 Gold 90

SUMMARY TOTALS: 082LSW086 NAME: WHITEMAN CREEK

Metric Imperial

Mined: 1 tonnes 1 tons Milled: tonnes tons

Recovery:
Gold: 90 grams 3 ounces

Comments: 1940: From 1936-1940. Tonnage mined unknown.

MINFILE NUMBER:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

NAME: HARRIS CREEK STATUS: Past Producer

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082LSW091 Production Tonnes Kilograms **Tonnes Grams** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u>

1945 Gold 14,150 1

**SUMMARY TOTALS: 082LSW091** NAME: HARRIS CREEK

> Metric **Imperial**

Mined: Milled: 1 tonnes 1 tons tonnes tons

Recovery: Gold: 14,150 grams 455 ounces

Comments: 1945: From period 1936-1945 from 800 cubic metres of material.

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 082LSW093 NAME: WINFIELD STATUS: Prospect Production **Tonnes** Kilograms **Tonnes Grams** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u>

> 1945 Gold 2,330 1

**SUMMARY TOTALS: 082LSW093** NAME: WINFIELD

> **Metric Imperial** Mined: 1 tonnes 1 tons Milled: tonnes tons

Recovery: 2,330 grams 75 ounces Gold:

Comments: 1945: 1933-1945 for Winfield camp (082LSW019,72,142) tonnage unknown.

MINFILE NUMBER: 082LSW093

Recovery:

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW099 NAME: KENDRY CREEK STATUS: Past Producer Production Tonnes **Kilograms** Tonnes Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1921 308 Limestone 308,442 **SUMMARY TOTALS: 082LSW099** NAME: **KENDRY CREEK** Metric **Imperial** Mined: Milled: 308 tonnes 340 tons

tonnes

tons

Limestone: 308,442 kilograms 679,998 pounds

MINFILE NUMBER: 082LSW099

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082LSW111 NAME: **ZUMAR** STATUS: Prospect Kilograms Production Tonnes Grams **Tonnes** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 2,324 261 1980 55 Silver Gold Lead 55 55 Zinc **SUMMARY TOTALS: 082LSW111** NAME: ZUMAR **Metric Imperial** 55 tonnes 61 tons Mined: tons Milled: tonnes Recovery: 2,324 grams 261 grams 55 kilograms 55 kilograms 75 ounces 8 ounces 121 pounds 121 pounds Silver: Gold: Lead: Zinc: Comments: 1980: Bulk sample is hand-cobbed mineralization.

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 002 NAME: **MOUNT COPELAND** STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered 1973 19,701 19,584 Molybdenum 136,744 1972 55,989 46,989 Molybdenum 316,727 1971 59,058 54,282 Molybdenum 448,258 1970 56,378 48,874 Molybdenum 288,984 SUMMARY TOTALS: 082M 002 NAME: **MOUNT COPELAND** Metric <u>Imperial</u> 210,680 tons 187,094 tons Mined: 191,126 tonnes Milled: 169,729 tonnes Recovery: Molybdenum: 1,190,713 kilograms 2,625,072 pounds

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Zinc:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 005 NAME: MASTODON STATUS: Past Producer Production **Grams Kilograms Tonnes Tonnes** Recovered Commodity <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1960 14,090 14,090 Silver 93,620 249 Gold Cadmium 5,507 44,351 1,124,191 Lead Zinc 1953 Cadmium 443 1952 14,877 14,877 Silver 91,847 Cadmium 5,704 35,142 1,557,260 Lead 1926 8 Silver 4,665 2.305 Lead SUMMARY TOTALS: 082M 005 NAME: MASTODON <u>Metric</u> <u>Imperial</u> Mined: 28,975 tonnes 31,939 tons Milled: 28,967 tonnes 31,931 tons Recovery: Silver: 190,132 grams 6,113 ounces 249 grams 11,654 kilograms 81,798 kilograms Gold: 8 ounces 25,693 pounds 180,334 pounds 5,911,586 pounds Cadmium: Lead:

2,681,451 kilograms

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 012 NAME: LUCKY COON (L. 5231) STATUS: Past Producer Production Tonnes **Tonnes Grams Kilograms** Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered 1977 Silver 228,669 Gold 274 Cadmium 114 62,033 Lead 41,367 Zinc 1975 Silver 316 439 Gold 3,708 69,705 7,416 Cadmium Lead Zinc 30 1956 Silver 35,146 Gold 31 8,330 Lead Zinc 2,393 SUMMARY TOTALS: 082M 012 NAME: LUCKY COON (L. 5231) **Metric Imperial** Mined: 30 tonnes 33 tons Milled: tonnes tons Recovery: Silver: 264,131 grams 8,492 ounces 744 grams 3,822 kilograms 140,068 kilograms Gold: 24 ounces 8,426 pounds 308,797 pounds 112,824 pounds Cadmium: Lead: Zinc: 51,176 kilograms

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Zinc:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 016 NAME: MOSQUITO KING STATUS: Past Producer Production **Tonnes Tonnes Grams Kilograms** <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1979 Silver 35,645 Gold Lead 218 14,804 12,256 Zinc Silver 1973 200 22,581 42 7,917 Cadmium Lead Zinc 6,072 1972 219 212 Silver 173,928 SUMMARY TOTALS: 082M 016 NAME: MOSQUITO KING <u>Metric</u> **Imperial** 462 tons Mined: 419 tonnes Milled: 212 tonnes 234 tons Recovery: 232,154 grams 218 grams 42 kilograms 22,721 kilograms 7,464 ounces 7 ounces 93 pounds Silver: Gold: Cadmium: 50,091 pounds 40,406 pounds Lead:

18,328 kilograms

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	082M 017	NAME:	EX 1			STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	
1976				Silver Gold Copper Lead Zinc	91,567 62	291 5,667 2,438
1955	36			Silver Lead Zinc	16,453	489,654 257,191
1953	185			Silver Gold Lead Zinc	106,403 373	3,157,328 306,862
1952	53			Silver Lead Zinc	34,960	1,300,945 325,275
SUMMARY TOTALS	<u>S</u> : 082M 017	NAME:	EX 1			
		<u>Metric</u>		<u>Imperial</u>		
Recovery:	Mined: Milled:	274	tonnes tonnes	302	tons tons	
Necovery.	Silver: Gold: Copper: Lead: Zinc:	291 4,953,594	grams kilograms	14		

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Production

<u>Year</u> 1926

MINFILE NUMBER:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**SMUGGLER** 

PAGE: 44 REPORT: RGEN0200 NAME: **SMUGGLER** STATUS: Past Producer Tonnes **Kilograms Grams** Commodity Recovered Milled Recovered Silver 6,566

Lead

3,362

SUMMARY TOTALS: 082M 023 NAME:

**Tonnes** 

<u>Mined</u>

082M 023

**Metric Imperial** 

Mined: 14 tonnes 15 tons Milled: tons tonnes Recovery:

6,566 grams 3,362 kilograms Silver: 211 ounces Lead: 7,412 pounds

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 025 NAME: HOMESTAKE (L.827) STATUS: Past Producer Production **Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1941 29 29 28,055 Silver Gold 31 Lead 715 1,287 Zinc 3 1937 3 Silver 14,836 31 Gold 434 Lead 352 Zinc 1936 1,001 1,001 Silver 608,375 Gold 809 4,529 Copper 16,391 13,595 Lead Zinc 1935 3,317 3,295 Silver 957,008 Gold 2,270 Copper 4,609 Lead 29,030 16,449 Zinc 1927 1,002 1,002 Silver 2,770,406 Gold 4,261 33,731 Lead Zinc 78,491 4,372,149 1926 1,610 1,610 Silver Gold 3,857 Lead 60,994 93,136 SUMMARY TOTALS: 082M 025 NAME: HOMESTAKE (L.827) Metric <u>Imperial</u> Mined: 6,962 tonnes 7,674 tons Milled: 6,940 tonnes 7,650 tons Recovery: Silver: 8,750,829 grams 281,345 ounces 11,259 grams 9,138 kilograms 362 ounces 20,146 pounds 311,502 pounds Gold: Copper: Lead: 141,295 kilograms 448,222 pounds Zinc: 203,310 kilograms

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 029 NAME: FOGHORN STATUS: Past Producer Production Tonnes Tonnes Grams **Kilograms** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1917 28 Silver 28,553 5,332 Lead 1916 45 Silver 59,811 20,648 Lead SUMMARY TOTALS: 082M 029 NAME: FOGHORN Metric **Imperial** 80 tons tons Mined: Milled: 73 tonnes tonnes Recovery: 2,841 ounces 57,276 pounds 88,364 grams 25,980 kilograms Silver: Lead:

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082M 055		NAME:	BECA			STATUS: Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1926		5			Silver Gold Lead	2,395 31	1,498
SUMMARY TOTALS	<u>6</u> : 082M 055		NAME: Metric	BECA	Imperial		
Recovery:	Mined: Milled:			tonnes tonnes		tons tons	
Recovery.	Silver: Gold: Lead:		31	grams grams kilograms	1	ounces ounces pounds	

Zinc:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 065 NAME: **ENERGITE** STATUS: Past Producer Production Tonnes Tonnes Grams **Kilograms** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1972 5 Silver 3,452 1,341 651 Lead Zinc 1954 31 Silver 280 Copper 1,581 **SUMMARY TOTALS: 082M 065** NAME: **ENERGITE Metric** <u>Imperial</u> Mined: 36 tonnes 40 tons Milled: tonnes tons Recovery: 3,732 grams 1,581 kilograms 1,341 kilograms 651 kilograms 120 ounces 3,486 pounds 2,956 pounds 1,435 pounds Silver: Copper: <u>Le</u>ad:

MINFILE NUMBER: 082M 065

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082M 123		NAME:	DIMAC			STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>		Kilograms Recovered
1982		18,350	18,350		Tungsten			104,730
SUMMARY TOTAL	<u>S</u> : 082M 123		NAME:	DIMAC				
			<u>Metric</u>		<u>Imperial</u>			
Recovery:	Mined: Milled:		18,350 18,350	tonnes tonnes	20,227 20,227			
•	Tungsten:		104,730	kilograms	230,890	pounds		
Comments:	1982:	Total production	n 1981-1982 (C	pen File 1991-	17).			

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 135 NAME: SAN STATUS: Past Producer Production Tonnes **Tonnes** Kilograms **Grams** Commodity <u>Year</u> <u>Mined</u> Milled Recovered Recovered 1982 6 Silver 22,768 Lead Zinc 582 333 SUMMARY TOTALS: 082M 135 NAME: SAN **Metric Imperial** Mined: tonnes tons Milled: 7 tons 6 tonnes Recovery: 22,768 grams 582 kilograms 333 kilograms Silver: 732 ounces 1,283 pounds 734 pounds Lead: Zinc:

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1991:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: **GOLDSTREAM** 082M 141 NAME: STATUS: Past Producer Production **Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 21,553 1996 21,553 Silver 237,512 690,067 140,790 Copper Zinc 1995 312,633 312,633 Silver 3,834,000 4,315 10,941,221 215 Cadmium Copper Antimony 2,426,521 Zinc 1994 348,663 348,663 Silver 4,531,997 Gold Copper Zinc 13,102,193 2,427,540 1993 419,627 419,627 Silver 5,297,171 Gold 6,252 Copper Zinc 15,133,852 2,488,085 5,470,200 1992 Silver 431,151 431,151 Gold 16,049 Copper 16,322,607 1991 262,874 249,715 Silver 3,037,255 Gold 14,339 Copper 10,230,612 1984 134,255 134,255 Silver 1,175,711 Copper Zinc 3,645,850 318,390 1983 293,631 293,631 Silver 2,644,604 Copper 8.202.987 186,786 Zinc SUMMARY TOTALS: 082M 141 **GOLDSTREAM** NAME: Metric <u>Imperial</u> Mined: 2,224,387 tonnes 2,451,967 tons Milled: 2,211,228 tonnes 2,437,462 tons Recovery: Silver: 26,228,450 grams 843,263 ounces 42,363 grams 4,315 kilograms 78,269,389 kilograms 215 kilograms 1,362 ounces Gold: 9,513 pounds 172,554,417 pounds 474 pounds 17,610,767 pounds Cadmium: Copper: Antimony: 7,988,112 kilograms Zinc: Comments: 1996: Closed in January 1996.

Includes 2833 tonnes of pre-production.

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Zinc:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082M 244 STATUS: Past Producer NAME: **SAMATOSUM** Production **Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1992 71,950 129,374 66,346,000 Silver 100,977 Gold Copper Lead 594,597 571,995 Zinc 1,624,135 1991 78,229 177,615 Silver 142,704,089 166,160 Gold 1,158,895 Copper 1,167,141 Ľėad 2,515,683 Zinc 166,154,000 1990 174,738 169,152 Silver Gold 279,907 Copper 1,462,819 Lead 2,050,850 Zinc 3,220,028 1989 28,212 78,732 Silver 54,152,687 Gold 92,074 461,705 1,279,141 97,620 Copper Lead Antimony 2,178,417 Zinc SUMMARY TOTALS: 082M 244 NAME: **SAMATOSUM Metric Imperial** Mined: 353,129 tonnes 389,258 tons Milled: 554,873 tonnes 611,643 tons Recovery: 429,356,776 grams 639,118 grams 3,678,016 kilograms 5,069,127 kilograms 97,620 kilograms 13,804,121 ounces 20,548 ounces Silver: Gold: 8,108,635 pounds 11,175,509 pounds 215,215 pounds Copper: Lead: Antimony: 9,538,263 kilograms

21,028,264 pounds

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 001 NAME: **MOBERLY** STATUS: Producer Production **Tonnes Tonnes** Grams **Kilograms** <u>Year</u> <u>Mined</u> Milled Commodity Recovered Recovered 2002 80,000 80,000 Silica 80,000,000 2001 120,000 120,000 Silica 120,000,000 2000 120,000 120,000 Silica 120,000,000 1998 150,000 150,000 Silica 150,000,000 1997 140,000 140,000 Silica 140,000,000 1996 140,000 140,000 Silica 140,000,000 1995 80,000 80,000 Silica 80,000,000 1994 80,000 80,000 Silica 80,000,000 1993 80,000 80,000 Silica 80,000,000 1992 59,000 59,000 Silica 59,000,000 1991 60,000 60,000 Silica 60,000,000 Silica 1990 49,611 49,611 49,611,000 1989 50,000 50,000 Silica 50,000,000 1988 50,347 50,347 Silica 50,347,000 1987 Silica 63,591 63,591 63,591,000 1986 Silica 53,354 53,354 53,354,000 1985 90,000 90,000 Silica 90,000,000 1984 90,000 90,000 Silica 90,000,000 1983 90,000 90,000 Silica 90,000,000 90,000 90,000 1982 Silica 90,000,000 90,000 90,000 Silica 1981 90,000,000 90,000 90,000 90,000,000 1980 Silica SUMMARY TOTALS: 082N 001 NAME: **MOBERLY** Metric <u>Imperial</u> Mined: 1.915.903 tonnes 2.111.922 tons Milled: 1,915,903 tonnes 2,111,922 tons Recovery: Silica: 1,915,903,000 kilograms 4,223,841,904 pounds Comments: 1997: Approximate annual rate. 1996: Approximate annual rate. 1995: Approximate annual rate (Information Circular 1995-1, page 9). Approximate annual rate (Information Circular 1995-1, page 9). Approximate annual rate (Information Circular 1995-1, page 9). 1994: 1993: 1985: 1980-1985: Estimated annual production.

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1963:

1949:

1947:

1361 tonnes stockpiled.

453 tonnes stockpiled.

453 tonnes mined and 453 tonnes shipped from stockpile.

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 002 NAME: **PARSON** STATUS: Past Producer **Kilograms** Production **Tonnes Tonnes** Grams <u>Year</u> <u>Mined</u> Milled Commodity Recovered Recovered 1992 28.222 **Barite** 28.222.000 1991 43,928 **Barite** 43,928,000 1990 42,768 **Barite** 42,768,000 1989 41,407 **Barite** 41,407,000 1988 40,476 **Barite** 40,476,000 1987 25,237 Barite 25,237,000 1986 30,615 Barite 30,615,000 1985 33,060 **Barite** 33,060,000 1984 26,938 **Barite** 26,938,000 1983 37,122 **Barite** 37,122,000 1982 4,224 Barite 4.224.000 7,668 7,668,000 1978 Barite 1976 2,273 **Barite** 2,273,000 1973 2,155 **Barite** 2,155,000 1972 3,628 **Barite** 3,628,000 1971 390 **Barite** 390,000 1970 122 Barite 122,000 1969 124 **Barite** 124,000 1968 421 **Barite** 421,000 1966 1,228 **Barite** 1,228,000 1965 986 **Barite** 986,000 1964 816 Barite 816,000 1963 2,294 **Barite** 2,294,000 1962 747 **Barite** 747,000 859 1961 **Barite** 859,000 1960 462 **Barite** 462,000 1959 3,190 Barite 3,190,000 1958 662 **Barite** 662,000 1957 385 **Barite** 385,000 1956 1,333 **Barite** 1,333,000 10,035 1955 **Barite** 10,035,000 1954 674 Barite 674,000 1953 879 **Barite** 879,000 1952 769 **Barite** 769,000 1951 1,132 **Barite** 1,132,000 1950 1,306 **Barite** 1,306,000 1949 906 Barite 906,000 1948 1,480 **Barite** 1,480,000 1947 2,539 **Barite** 2,539,000 1946 2,438 **Barite** 2,438,000 1945 28.263 Barite 28,263,000 1944 13,002 Barite 13,002,000 NAME: **PARSON** SUMMARY TOTALS: 082N 002 <u>Metric</u> <u>Imperial</u> Mined: 447,163 tonnes 492,913 tons Milled: tonnes tons Recovery: 985,825,387 pounds Barite: 447,163,000 kilograms Comments: 1992: 1982-1992: Mountain Minerals, personal communication, 1993. 1973: 2155 tonnes mined; 1386 tonnes shipped from stockpile. 1971: Shipped from stockpile. 1970: Shipped from stockpile. 1969: Shipped from stockpile. 1968: Shipped from stockpile. 1965: Shipped from stockpile. 1964: Shipped from stockpile.

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082N 002

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

NAME: PARSON

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STATUS: Past Producer

Comments:

MINFILE NUMBER:

1945: 1944: Mountain Minerals Limited, data from fiche.

2200 tonnes stockpiled.

MINFILE NUMBER: 082N 002

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 003 NAME: SNOWFLAKE STATUS: Past Producer Production **Tonnes Tonnes** Grams **Kilograms** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1929 27 27 Silver 16,453 Copper Lead 464 1,999 2,790 Zinc 57,385 31 1928 40 40 Silver Gold 21,108 Lead 1927 31 31 Silver 60,215 18,497 2,135 Lead SUMMARY TOTALS: 082N 003 NAME: **SNOWFLAKE Metric** <u>Imperial</u> Mined: 98 tonnes 108 tons Milled: 98 tonnes 108 tons Recovery: 4,310 ounces 1 ounces 1,023 pounds 91,721 pounds 10,858 pounds 134,053 grams 31 grams 464 kilograms Silver: Gold: Copper: 41,604 kilograms 4,925 kilograms Lead: Zinc:

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 004 NAME: WOOLSEY STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 33 38,817 1967 33 Silver 14,299 2,815 Lead Zinc 4,717 Silver 72,937 1953 4,717 Copper 110 22,045 Lead 1950 332 332 Silver 178,034 Gold 31 52,449 19,595 Lead 1949 34 34 Silver 21,274 Lead Zinc 7,200 2,653 318 1942 318 Tungsten 733 1930 22 22 Silver 36,608 Gold 31 12,627 Lead Zinc 1,418 SUMMARY TOTALS: 082N 004 NAME: WOOLSEY Metric <u>Imperial</u> 5,456 tonnes 5,456 tonnes 6,014 tons 6,014 tons Mined: Milled: Recovery: 347,670 grams 62 grams 110 kilograms 11,178 ounces 2 ounces 243 pounds Silver: Gold: Copper: 239,466 pounds 1,616 pounds 108,620 kilograms 733 kilograms Lead: Tungsten: Zinc: 26,481 kilograms 58,381 pounds Comments: 1953: Includes 2540 tonnes yielding 9 tonnes of tungsten concentrate. 1942: Tungsten concentrate: 0.7 tonne.

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 009 NAME: CROWN POINT STATUS: Past Producer Production **Tonnes** Kilograms **Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1929 1 Silver 1,493 1 785 Lead 1909 4 4 Silver 6,718 3,023 Lead SUMMARY TOTALS: 082N 009 NAME: **CROWN POINT** Metric **Imperial** Mined: Milled: 5 tonnes 5 tonnes 6 tons 6 tons Recovery: 8,211 grams 3,808 kilograms 264 ounces 8,395 pounds Silver: Lead:

MINFILE NUMBER: 082N 009

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Production

<u>Year</u>

1927

SUMMARY TOTALS: 082N 011

082N 011

Mined:

Milled:

Silver:

Lead: Zinc:

Tonnes

<u>Mined</u>

5

MINFILE NUMBER:

Recovery:

5,878 grams 1,642 kilograms 89 kilograms

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 59 REPORT: RGEN0200 NAME: **DONALD** STATUS: Prospect **Tonnes** Grams Kilograms Commodity Recovered Milled Recovered 5 Silver 5,878 Lead Zinc 1,642 89 NAME: DONALD **Metric Imperial** 5 tonnes 6 tons 5 tonnes 6 tons

> 189 ounces 3,620 pounds 196 pounds

> > MINFILE NUMBER: 082N 011

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	082N 012	NAME:	LANARK (L.1	<u>592A)</u>		STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	
1922	48	48		Silver Gold Lead	84,880 62	
1920	54	54		Silver Lead	89,825	·
1919	25	25		Silver Gold Lead	46,157 31	14,313
1917	189	189		Silver Lead	345,368	
1916	371	371		Silver Lead	273,520	66,825
1915	55	55		Silver Lead	63,077	18,788
1914	59	59		Silver Gold Lead	135,547 124	
SUMMARY TOTALS	S: 082N 012	NAME:	LANARK (L.1	592A)		
		<u>Metric</u>		<u>Imperial</u>		
Pagayan <i>u</i>	Mined: Milled:	801 801	tonnes tonnes		tons tons	
Recovery:	Silver: Gold: Lead:	1,038,374 217 292,781	grams		ounces ounces pounds	

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 013 NAME: **DUNVEGAN** STATUS: Prospect Production **Tonnes** Kilograms **Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1925 6 6 Silver 15,427 3,701 508 Lead Zinc 1896 44 44 Silver 134,365 31,352 Lead SUMMARY TOTALS: 082N 013 NAME: **DUNVEGAN** Metric <u>Imperial</u> 55 tons 55 tons Mined: 50 tonnes Milled: 50 tonnes Recovery: 149,792 grams 35,053 kilograms 508 kilograms 4,816 ounces 77,279 pounds 1,120 pounds Silver: Lead: Zinc:

MINFILE NUMBER: 082N 013

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 016 NAME: ALLCO STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1937 103 103 Silver 137,040 Gold Lead 156 24,385 Zinc 13,209 213,988 187 1936 90 Silver 90 Gold 41,310 Lead **SUMMARY TOTALS: 082N 016** NAME: ALLCO **Metric** <u>Imperial</u> 193 tonnes 193 tonnes Mined: Milled: 213 tons 213 tons Recovery: 351,028 grams 343 grams 65,695 kilograms 13,209 kilograms Silver: Gold: 11,286 ounces 11 ounces 144,833 pounds Lead: Zinc: 29,121 pounds

MINFILE NUMBER: 082N 016

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 018 NAME: QUARTZ CREEK PLACER STATUS: Past Producer

Production Tonnes **Kilograms Tonnes** Grams Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u>

1940 Gold 7,992 1

SUMMARY TOTALS: 082N 018 NAME: QUARTZ CREEK PLACER Metric Imperial

> Mined: 1 tonnes 1 tons Milled: tonnes tons

> > Intermittent production from 1881 to 1940; unknown tonnage.

Recovery: 257 ounces Gold: 7,992 grams

Comments:

1940:

MINFILE NUMBER: 082N 018

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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	002N 040	NIANAT.	MONADOU		CTATUC: Doct Draduces
MINFILE NUMBER:  Production	082N 019 Tonnes	NAME: Tonnes	<u>MONARCH</u>	Grams	STATUS: Past Producer Kilograms
<u>Year</u>	Mined	Milled	Commodity	Recovered	Recovered
1957		2,640	Silver	22,021	
			Cadmium Lead		77 43,346
4050			Zinc	4.000	48,901
1953		41	Silver Cadmium	1,866	21
			Lead Zinc		293 23,621
1952	13,503	13,503	Silver	96,855	20,021
	10,000	,	Cadmium Lead	22,222	1,456 108,615
			Zinc		757,765
1951	22,504	22,504	Silver Cadmium	458,831	1,866
			Lead		467,929
1950	41,122	41,122	Zinc Silver	656,024	1,923,705
1950	41,122	41,122	Lead	656,024	1,754,172
1949	46,085	45,013	Zinc Silver	600 102	2,339,908
1949	40,065	45,015	Cadmium	699,102	5,596
			Lead Zinc		2,114,610 2,258,343
1948	31,202	31,202	Silver	737,421	
			Lead Zinc		929,838 2,808,463
1947	7,261	7,261	Silver	251,406	
			Lead Zinc		60,127 869,856
1946	14,223	14,223	Silver	383,656	·
			Lead Zinc		404,526 1,296,447
1945	43,342	43,342	Silver	2,304,110	
	·	·	Lead Zinc		1,027,504 5,007,896
1944	22,558	22,675	Silver	330,314	
			Lead Zinc		420,511 2,724,631
1943	56,217	56,037	Silver	607,224	
			Lead Zinc		1,781,454 3,338,412
1942	79,202	78,513	Silver	795,086	0,000,412
			Lead Zinc		2,377,326 4,916,961
1941	89,221	87,767	Silver	2,420,995	
			Lead Zinc		2,943,866 7,323,714
1940	75,272	75,403	Silver	3,002,155	7,020,714
			Lead Zinc		5,620,714 9,336,158
1935	52,358	50,728	Silver	1,445,356	3,330,130
			Lead Zinc		2,992,449 5,021,817
1934	87,271	86,073	Silver	5,327,415	0,021,017
			Lead Zinc		9,043,890 11,769,807
1933	33,467	32,306	Silver	1,708,954	11,700,007
	, -	,,,,,,	Lead Zinc	,,	3,871,391 3,282,177
1930	68,087	68,087	Silver	1,942,880	0,202,177
	,	,	Lead Zinc	,- ,	5,769,694 5,955,572
1929	1,569	1,569	Silver	45,037	0,000,012
	·		Lead	·	189,186
1924	90	90	Silver Lead	12,628	60,649
1922	177	177	Silver	28,335	·
			Lead Zinc		100,584 1,285
1920	4,536	4,536	Silver	48,116	
				MIN	FILE NUMBER: 082N 019

1890:

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 082N 019 NAME: MONARCH STATUS: Past Producer **Kilograms** Production **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 4,536 1920 4,536 Lead 248,345 1919 848 848 Silver 332,118 101,786 Lead 704 Silver 1918 704 44,322 Lead 369,034 1917 285 Silver 464,648 Lead 175,236 Zinc 8,165 1916 1,119 1,119 Silver 52.253 20,865 Lead 95,254 Zinc 1915 5,033 5,033 Silver 19,253 95,077 Lead 141,393 Zinc 9,072 9,072 1913 Silver 147,926 Lead 1,131,868 1912 18,506 18,506 Silver 230,318 1,020,231 Lead Zinc 64,701 1910 48 48 Silver 7,558 29,941 Lead 1908 161 161 Silver 26,904 Lead 95,867 1900 61 61 Silver 6,127 Lead 30,198 1890 1,361 1,361 Silver 466,545 Lead 816,462 **MONARCH** SUMMARY TOTALS: 082N 019 NAME: <u>Metric</u> <u>Imperial</u> 826,180 tonnes 910,708 tons Mined: Milled: 822,010 tonnes 906,111 tons Recovery: 25,123,759 grams 9,016 kilograms 46,217,584 kilograms Silver: 807,746 ounces 19,877 pounds 101,892,302 pounds 157,222,512 pounds Cadmium: Lead: 71,314,952 kilograms Zinc: Comments: Pb conc.-2051 t, Zn conc.-589 t; salvaged and shipped to Trail. Operations suspended, bin clean-up; zinc concentrates. 1957: 1953: 1917: Clean-up.

In 1888, 544 tonnes of ore was shipped to Vancouver.

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: STATUS: Past Producer 082N 043 NAME: HORSE CREEK **Kilograms** Production **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 70,000 1997 70,000 Silica 70,000,000 70,000,000 1996 70,000 70,000 Silica 1995 60,000 60,000 Silica 60,000,000 1994 50,000 50,000 Silica 50,000,000 1993 50,000 50,000 Silica 50,000,000 1992 40,000 40,000 Silica 40,000,000 1991 Silica 40,000 40,000 40,000,000 1990 40,823 40,823 Silica 40,823,000 1989 81,647 81,647 Silica 81,647,000 1988 90,722 90,722 Silica 90,722,000 1987 74,000 74,000 Silica 74,000,000 1986 67,000 67,000 Silica 67,000,000 1985 80,000 80,000 Silica 80,000,000 1984 45,000 45,000 Silica 45,000,000 1980 2,000 2,000 Silica 2,000,000 SUMMARY TOTALS: 082N 043 NAME: HORSE CREEK <u>Metric</u> <u>Imperial</u> 861,192 tonnes 861,192 tonnes 949,302 tons 949,302 tons Mined: Milled: Recovery: Silica: 861,192,000 kilograms 1,898,602,829 pounds Comments: 1997: Approximate annual rate. 1996: Approximate annual rate. 1995: Approximate annual rate. 1994: Approximate annual rate (Information Circular 1995-1, page 9). 1993: Approximate annual rate (Information Circular 1995-1, page 9). 1992: Estimate.

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Production

<u>Year</u>

1900

SUMMARY TOTALS: 082N 048

082N 048

Mined:

Milled:

Silver:

Lead:

**Tonnes** 

<u>Mined</u>

3

MINFILE NUMBER:

Recovery:

3,110 grams 863 kilograms

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 67 REPORT: RGEN0200 NAME: JUMBO STATUS: Prospect **Tonnes** Kilograms **Grams** Commodity Recovered Milled Recovered 3 Silver 3,110 863 Lead NAME: **JUMBO Metric Imperial** 3 tons 3 tons 3 tonnes 3 tonnes

100 ounces

1,903 pounds

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082N 050		NAME:	GOOD LUCK	(		STATUS: Developed Prospec
Productior <u>Yea</u> ı	-	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	3
1905	5	24	24		Copper		3,126
SUMMARY TOTALS: 082N 050		NAME:	GOOD LUCK	(			
			<u>Metric</u>		<u>Imperial</u>		
Danassamu	Mined Milled			tonnes tonnes		tons tons	
Recovery:	Copper	:	3,126	kilograms	6,892	pounds	

MINFILE NUMBER: 082N 050

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	082N 051		NAME:	<b>TENNESSEE</b>		S	TATUS: Prospect
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1917		1	1		Copper		82
SUMMARY TOTALS	S: 082N 051		NAME:	TENNESSEE			
			Metric		<u>Imperial</u>		
	Mined: Milled:		1 1	tonnes tonnes	1 1	tons tons	
Recovery:	Copper:		82	kilograms	181	pounds	
Comments:	1917:	A small trial s	hipment of ore fr	om a portal (un	known tonnage	e).	

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MINFILE NUMBER:	082N 052		NAME:	PORPHERY A	AND IRON HILL (	L.268)	STATUS: Prospect
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1901		5	5		Silver Copper	311	658
SUMMARY TOTALS: 082N 052		NAME: <u>Metric</u>	PORPHERY A	AND IRON HILL ( Imperial	(L.268)		
Danas ( a m. )	Mined: Milled:			tonnes tonnes	6 to		
Recovery:	Silver: Copper:			grams kilograms	10 c 1,451 p	ounces ounds	

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MINFILE NUMBER:	082N 053		NAME:	SUNDAY		ST	ATUS: Prospect
Production <u>Year</u>	7	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1901		6	6		Silver Copper Lead	3,826	137 3,169
SUMMARY TOTALS: 082N 053		NAME:	SUNDAY				
			<u>Metric</u>		<u>Imperial</u>		
Recovery:	Mined: Milled:			tonnes tonnes		tons tons	
Necovery.	Silver: Copper: Lead:		137	grams kilograms kilograms		ounces pounds pounds	

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MINFILE NUMBER:	083D 012		NAME:	CANOE NO	ORTH MICA		STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>		Kilograms Recovered
1961		1,043	113		Mica			113,400
1960		91	33		Mica			32,659
SUMMARY TOTALS	: 083D 012		NAME:	CANOE NO	ORTH MICA			
			<u>Metric</u>		<u>Imperial</u>			
	Mined:			tonnes	1,250			
Recovery:	Milled:		146	tonnes	161	tons		
Recovery.	Mica:		146,059	kilograms	322,005	pounds		
Comments:	1961: 1960:	125 tonnes of Georgian Min	mica product we eral Industries Lt	ere produced d.; production	for market (EMPR n fiche.	AR 1961)		

RUN DATE: RUN TIME: 26-Jun-2003 08:58:08

1963:

## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 083D 016 NAME: VALEMONT STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1963 150 150 Silica 150,000 SUMMARY TOTALS: 083D 016 NAME: VALEMONT **Metric Imperial** Mined: Milled: 150 tonnes 150 tonnes 165 tons 165 tons Recovery: Silica: 150,000 kilograms 330,693 pounds Comments:

Minister of Mines Annual Report 1963, p. 151.

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	083D 017		NAME:	CANOE SOUTH MICA		STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodity	Grams <u>Recovered</u>	
1960		58	23	Mica		22,680
1954		121	121	Mica		120,656
1953		145	145	Mica		145,150
1952		142	142	Mica		142,156
1951		275	275	Mica		275,331
1950		206	206	Mica		206,838
1949		262	262	Mica		262,176
1948		376	405	Mica		405,512
1947		746	820	Mica		820,095
1946		764	732	Mica		732,779
1945		544	582	Mica		582,413
1944		356	295	Mica		294,835
1914		4		Mica		1,815
SUMMARY TOTALS	S: 083D 017		NAME:	CANOE SOUTH MICA		
	-		Metric	Imperial		
_	Mined: Milled:			tonnes 4,408 tonnes 4,418		
Recovery:	Mica:		4,012,436	kilograms 8,845,905	pounds	
Comments:					•	
	1960: 1954: 1953: 1952: 1951: 1950: 1949: 1948: 1947: 1946: 1945: 1944:	Operated I	oy G. Campbell; mille by G. Campbell; mille	ed by Fairey & Co.; fiche.	roofing.	

MINFILE NUMBER: 083D 017

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