

BC  
Ministry of Energy, Mines and  
Petroleum Resources

Geological Survey Branch  
**MINFILE MAP  
NTS 092HSE  
PRINCETON**

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Date Revised: July 1992  
Scale 1:100 000

Total Number of Mineral Occurrences: 244

Status

- Producer
- Past Producer
- Developed Prospect
- Prospect
- Showing

### GEOLOGICAL LEGEND

#### STRATIFIED ROCKS

**CENOZOIC**

**QUATERNARY**

PLEISTOCENE AND RECENT

Qa Unconsolidated alluvial, glaciofluvial and lacustrine deposits, till, colluvium, and landfills

**TERTIARY**

MIOCENE AND PLIOCENE

Miv PLATEAU BASALT: Basalt, olivine basalt, minor tuff

UPPER OLIгоценE TO LOWER MIOCENE

OMcv COQUIHALLA FORMATION: Intermediate, felsic pyroclastics and flows

**Eocene**

PRINCETON GROUP (EPa, EPv):

EPa Sandstone, conglomerate and argillite. Includes Allentown Formation

EPv Intermediate and local mafic and felsic flows, volcanoclastics

**MESOZOIC**

**CRETACEOUS**

MIDDLE AND LATE CRETACEOUS

Ksa SPENCES BRIDGE GROUP: Intermediate, locally felsic and mafic crystal lapilli tuffs and flows, sandstone, shale and conglomerate

Ks Chert-grain sandstone and conglomerate

UPPER LOWER TO LOWER UPPER CRETACEOUS

PASAYTEN GROUP (Kpw, Kpv):

Kpw Wintrop Facies: Arkose, conglomerate, argillite and minor red beds and tuff

Kpv Virginian Ridge Facies: Chert-grain sandstone, argillite

LOWER AND MIDDLE CRETACEOUS

KJ JACKASS MOUNTAIN GROUP: Sandstone, argillite and conglomerate. Upper part is probably a facies equivalent of the Pasayten Group

**JURASSIC**

UPPER JURASSIC

Jsa Sandstone, conglomerate, argillite ("Thunder Lake Sequence" of Manning Park area)

Jsd Granodiorite

LOWER AND MIDDLE TO UPPER JURASSIC

JL Argillite, slate, siltstone, tuff, wacke, tuffaceous wacke and conglomerate

Jd DEVONIAN CREEK FORMATION: Sandstone, argillite and local intermediate to mafic lapilli crystal tuffs, flows and agglomerates

**TRIASSIC**

UPPER TRIASSIC

NICOLA GROUP (Tnv, Tns, Tnc):

Tnv Undifferentiated mafic to felsic volcanics and minor argillite

Tns Eastern Volcanic Facies: Mafic augite and hornblende porphyritic pyroclastics and flows

Tnc Sedimentary Facies: Argillite, sandstone tuff and local breccia and conglomerate (mapped as Tw, Tn and Tr in the Hooday area)

Tw WHISTLE CREEK FORMATION: Bedded to massive ash and lapilli tuff, minor tuffaceous siltstone and limestone boulder conglomerate

Ts STEAMWINDER MOUNTAIN FORMATION: Thinly bedded argillite, siltstone and limestone, minor andesite ash tuff

Th HEDLEY FORMATION: Thinly bedded siltstone, thick limestone beds and minor tuffs

Tf FRENCH MINE AND PEACHLAND CREEK FORMATIONS: Limestone, limestone breccia, pebble conglomerate and basaltic ash tuffs and flows

**PALEOZOIC AND MESOZOIC**

PERMIAN TO JURASSIC

Pm HODAMEN COMPLEX: Undifferentiated chert, mafic volcanics with minor limestone, gabbro and ultramafic rock. Correlative with Bridge River Complex

**ORDOVICIAN TO TRIASSIC**

Ota APEX MOUNTAIN COMPLEX: Argillite, chert, mafic volcanics, minor carbonate and ultramafic rock (includes Bradford, Independence, Old Tom and Shoemaker Formations)

#### INTRUSIVE ROCKS

**CENOZOIC**

**TERTIARY**

Eocene

Egt Granodiorite

**MESOZOIC**

**CRETACEOUS**

LATE CRETACEOUS

Ika SKAIST RIVER STOCK: Plagioclase-hornblende biotite porphyritic diorite

MIDDLE AND LATE CRETACEOUS

mKv VERDE CREEK AND CATHEDRAL LAKES PLUTONS: Mainly granite, in part monzonitic, locally porphyritic and locally fine grained

Ksm Felsic intrusions, probably sub-volcanic equivalents of the SPENCES BRIDGE GROUP

LATE JURASSIC AND EARLY CRETACEOUS

JKsa, s, a EAGLE PLUTONIC COMPLEX: Foliated granodiorite, muscovite biotite granite, diorite and amphibolite

**JURASSIC**

MIDDLE JURASSIC

mJgt CARHILL CREEK PLUTON: Granodiorite

mJd OSPREY LAKE BATHOLITH: Granite and Granodiorite

EARLY JURASSIC

mJt BROMLEY BATHOLITH: Granodiorite

ELjg, s, c TULAMEN ULTRAMAFIC COMPLEX: Syenogabbro, syenodiorite, clinopyroxenite

els Ultramafic stocks related to the TULAMEN ULTRAMAFIC COMPLEX

els, s, m COPPER MOUNTAIN AND HEDLEY INTRUSIONS: Diorite, quartz diorite, monzonite, syenite

elsd LOST HORSE INTRUSIONS: Porphyritic augite and biotite augite microdiorite, monzonite and microsyenite

LATE TRIASSIC AND/OR EARLY JURASSIC

Tdgt Granodiorite

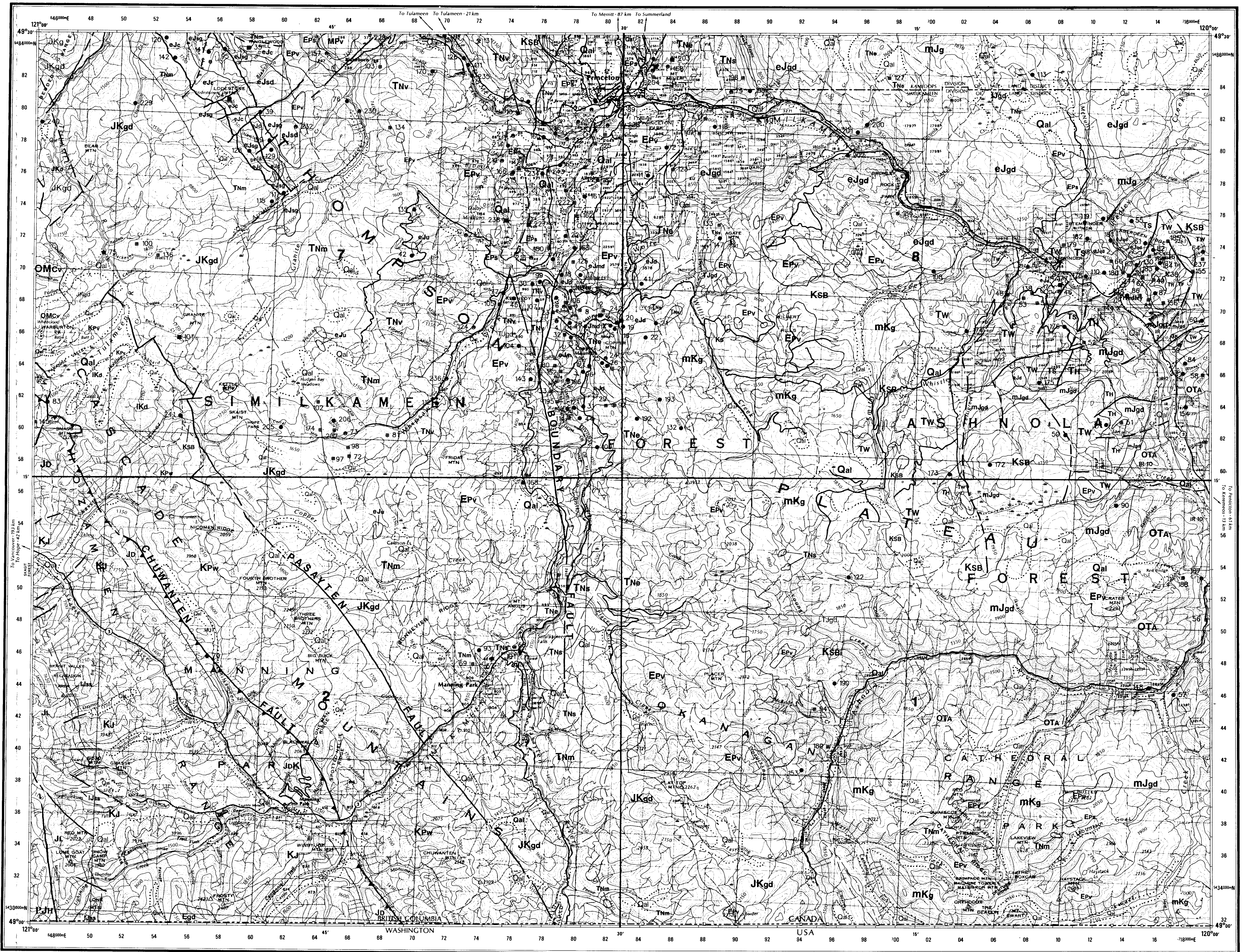
#### METAMORPHIC ROCKS

**MESOZOIC**

**TRIASSIC**

LATE TRIASSIC

Tm NICOLA GROUP: Amphibolite, foliated diorite, mylonite, chlorite schist and minor ironstone. Derived from Nicola Group volcanic and sedimentary facies



#### MAP LEGEND - 092HSE

MINFILE NUMBER	NAME	COMMODITIES
001	SANLCO	CU AU AG
002	AGUEE LAKE	CU AU AG
003	COPPER BLUFF (L.1940)	CU AU AG MO ZN
004	AGUEE LAKE	CU AU AG
005	COPPER KING (L.403)	CU AU AG
006	RED ROCK (L.274)	CU AU AG
007	CLARK OF TURE (L.269)	CU AU AG
008	DRONCO (L.158)	CU AU AG
009	PRINCETON AGATE	AG
010	MCCORMACK PLATS	AG
011	KAUF (L.180)	CU AU AG
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#### MAP LEGEND - 092HSE

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#### COMMODITY LEGEND

CODE INDEX	COMMODITY INDEX
A1	Agate
A2	Amethyst
A3	Asbestos
A4	Baryte
A5	Bismuth
A6	Chromite
A7	Cinnabar
A8	Cobalt
A9	Copper
A10	Cyanite
A11	Diamond
A12	Fluorite
A13	Galena
A14	Garnet
A15	Gold
A16	Graphite
A17	Iron
A18	Jadeite
A19	Kyanite
A20	Lapis Lazuli
A21	Limestone
A22	Magnetite
A23	Malachite
A24	Marble
A25	Opal
A26	Peridot
A27	Quartz
A28	Spinel
A29	Tanzanite
A30	Tourmaline
A31	Vanadium
A32	Zircon