GEOLOGICAL LEGEND

QUATERNARY
PLEISTOCENE AND RECENT

Qd	*Thick drift; alluvium, glaciofluvial and lacustrine deposits, till, colluvium*
PRv	**'VALLEY BASALT':** *vesicular olivine basalt; local acidic to intermediate breccia in Coast Mountains only*

TERTIARY
MIOCENE (?) AND OLDER

Tv Ts	*Olivine basalt, possibly correlative in part with* **VALLEY BASALT**; *minor local intermediate volcanics in central part of area*
Ti	*Small intrusions of mainly intermediate composition*

EOCENE

EK	**KAMLOOPS GROUP:** *Basalt, andesite, dacite, rhyolite, breccia, tuff and local intercalated sandstone; conglomerate, shale*
EC	**'COLDWATER BEDS':** *Arkosic sandstone, conglomerate, shale, local coal seams*

CRETACEOUS

Kgd,qm	*Granodiorite, quartz monzonite; few or no included metamorphic rocks*
uKK	**KINGSVALE GROUP:** *Basalt, local intercalated volcaniclastics*

APTIAN AND ALBIAN AND (?) OLDER

lKSB	**SPENCES BRIDGE GROUP:** *Andesite, dacite, rhyolite, intercalated volcaniclastics, sandstone, shale and local conglomerate*

JURASSIC AND CRETACEOUS
NEOCOMIAN AND (?) OLDER

JKs	*Chert-pebble conglomerate; distinguished from* **ASHCROFT FORMATION** *on compositional grounds*
Jgd	**PENNASK BATHOLITH, DOUGLAS LAKE STOCK AND SIMILAR GRANITIC ROCKS:** *Granodiorite, quartz monzonite*

SINEMURIAN TO CALLOVIAN

lmJA	**ASHCROFT FORMATION:** *Argillite, siltstone, sandstone, conglomerate, local minor carbonate*

EARLIEST JURASSIC (?)

eJgd	**WILD HORSE BATHOLITH, NICOLA BATHOLITH, PARTS OF MOUNT LYTTON PLUTONIC COMPLEX AND SIMILAR GRANITIC ROCKS:** *Granodiorite, quartz monzonite; the latter has local potassium feldspar megacrystic phases*

TRIASSIC AND (?) JURASSIC

TrJqm(qd) gd(qd) d	**GUICHON CREEK BATHOLITH AND SIMILAR GRANITIC ROCKS:** *Quartz monzonite and granodiorite (qm(gd)); granodiorite, quartz diorite, (gd(qd)) and subordinate diorite (d)*

ALKALINE INTRUSIVES OF UNCERTAIN AGE BUT, IN PART, PROBABLY COEVAL WITH IRON MASK BATHOLITH:

TrJgn	*Granite*
TrJs	*Syenite*
TrJd	*Diorite*
TrJgb	*Gabbro*
TrJu	*Ultramafic rocks including picrite and local serpentine*
TrJi	*Undifferentiated*
TrJv	*Plagioclase, augite-plagioclase andesite and(?) basalt; volcaniclastics, local carbonate. Uncertain age, but lithologically closest to Nicola Group 3 volcanics*

KARNIAN AND NORIAN
NICOLA GROUP:

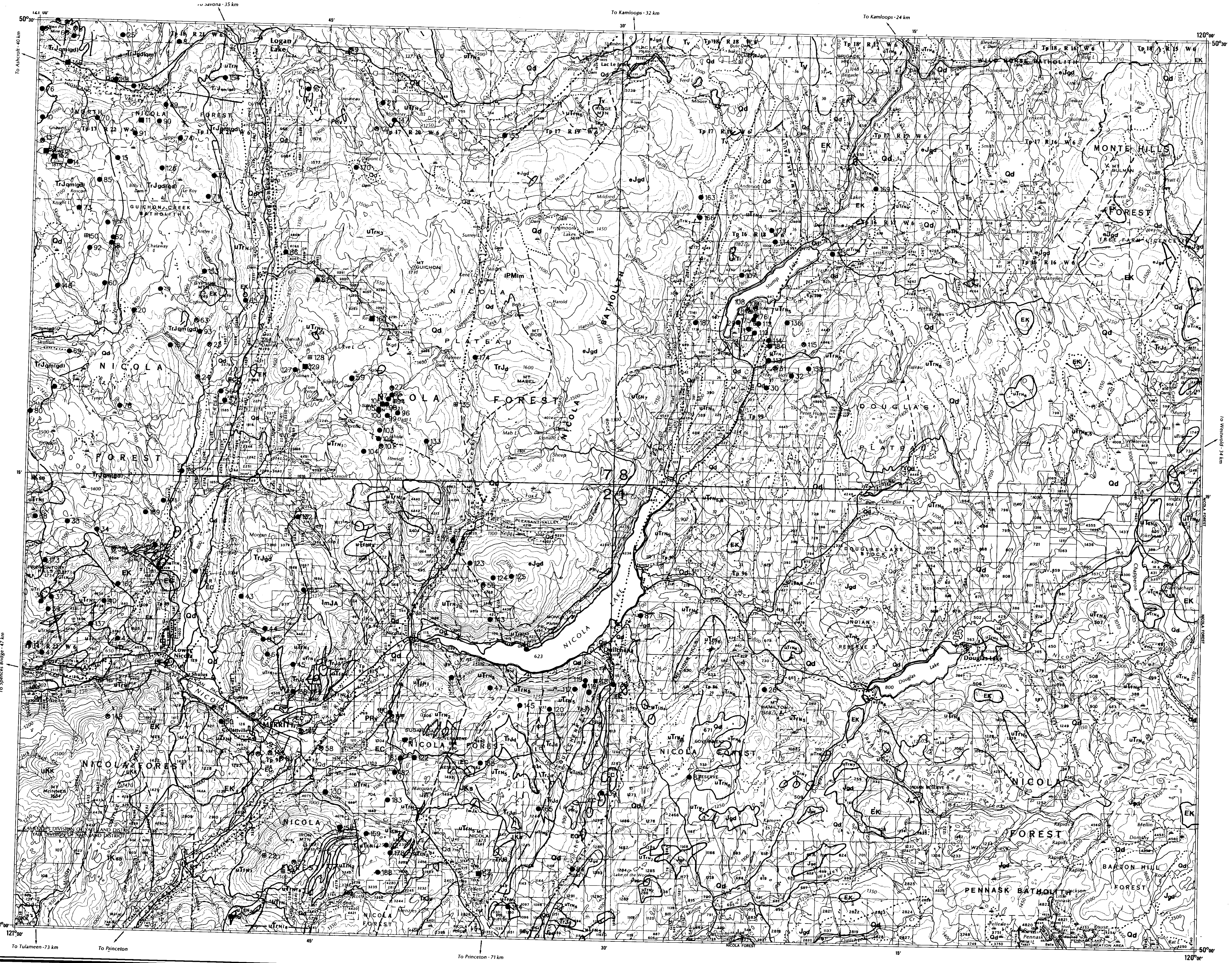
uTrN	*Undifferentiated*
uTrN1 uTrN1a	*Basic to acidic, mainly volcaniclastic rocks and intercalated argillite; 1a acidic flows and volcaniclastics; local schistose equivalents mainly along Thompson River valley*
uTrN2	*Carbonate*
uTrN3	*Plagioclase, plagioclase-augite intermediate pyroclastic and epiclastic breccia, conglomerate, tuff, sandstone, local shale; carbonate clasts common. Local augite porphyry bodies probably feeders to N5 volcanics*
uTrN4	*Aphanitic, pillowed basic flows*
uTrN5	*Augite porphyry, augite-plagioclase porphyry volcaniclastic breccia and tuff; interbedded argillite*
uTrN6	*Argillite, siltstone, volcanic sandstone, local intercalated tuff. Rocks along North Thompson River contain interbedded chert pebble conglomerate, chert arenite, local carbonate, and minor augite/hornblende porphyry. Northeast of Kamloops, these strata are as old as Middle Triassic*
uTrN7	*Variably foliated diorite, amphibolite, metasedimentary rocks, probably equivalent to N5, N6; associated with* **NICOLA, WILD HORSE AND PENNASK BATHOLITHS**
uTrd,i	*Diorite, quartzofeldspathic intrusions probably mainly subvolcanic to the* **NICOLA GROUP**

PALEOZOIC AND MESOZOIC

lPMlm	*Biotite quartz schist, biotite muscovite schist, garnet biotite schist local (in Coast Mountains), kyanite, sillimanite; protolith age unknown*

Geological legend and base derived from:

Monger, H.W.H. and W.J. McMillan (1984): *Bedrock Geology of Ashcroft (92I) map area;* Geological Survey of Canada, Open File 980, 1:125,000



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

MINFILE MAP 092ISE
MERRITT
MINERAL OCCURRENCE MAP

Scale 1:100 000
(1 cm = 1 km)

km 2 0 2 4 6 8 10 12 14 km
1 km = 0.6214 mi. Contour Interval 50 m 1 mi. = 1.6093 km

This project is a contribution to the Canada/British Columbia Mineral Development Agreement 1985–1990.

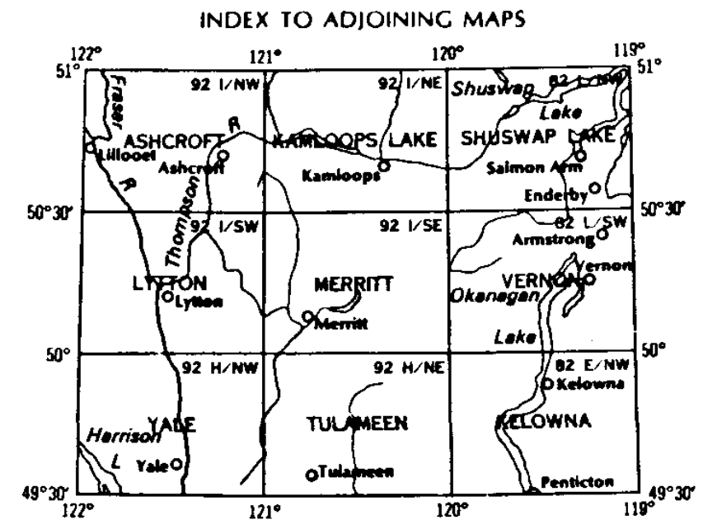
Province of British Columbia Ministry of Energy, Mines and Petroleum Resources
Energy, Mines and Resources Canada Énergie, Mines et Ressources Canada

DATE REVISED: FEBRUARY 1990

TOTAL NUMBER OF OCCURRENCES: 189

STATUS
- ⚒ Producer
- ⊗ Past Producer
- ■ Developed Prospect
- ⊞ Prospect
- ● Showing

INDEX TO ADJOINING MAPS



MAP LEGEND 092ISE

MINFILE NUMBER	NAME	COMMODITIES
001	BETHLEHEM COPPER-JERSEY	CU MO AU AG
002	BETHLEHEM COPPER-EAST JERSEY	CU MO
003	BETHLEHEM COPPER-SIMONS	CU
004	BETHLEHEM COPPER-HUESTIS	CU
005	BETHLEHEM COPPER-SNOWSTORM	CU AG MO AU
006	BETHLEHEM COPPER-IONA	CU MO
007	BETHLEHEM COPPER-WHITE	CU
008	BETHLEHEM COPPER-SPUD LAKE	CU
009	FORD	CU AG
010	SHEBA	CU MO
011	JERICHO	CU MO AG
012	BERTHA-MOLLY	CU AG
013	HIGHMONT	CU MO
014	CU 16	CU MO
015	BORNITE RIDGE	CU
016	GEO	CU PB
017	BOB	CU MO
018	JAY 1	CU
019	WIZ 3	CU
020	SHO	CU
021	RHYOLITE	CU ZN
022	DIANE	AU AG CU ZN
023	VIMY	CU AG
024	ABERDEEN (L.960)	CU AG AU
025	HAT-OUTRIDER	CU
026	BRUCE	CU ZN
027	LUCKY MIKE	WO AG CU ZN PB AU
028	ENTERPRISE (L.651)	AG AU PB ZN CU
029	PLANET NO. 1 (L.4102)	CU PB ZN
030	SCOTIA (L.5092)	AG CU PB ZN
031	JENNY LONG (L.718)	AG PB ZN AU CU WO
032	JOHANNESBURG	CU AG AU PB ZN WO
033	MARB	CU
034	TITAN QUEEN	CU
035	CRAIGMONT	CU FE AG AU MA
036	ERIC	CU FE
037	TOM	CU
038	HANK 30	CU FE CO
039	HANK 1-4	CU
040	ARH	CU FE
041	TEX	CU
042	PL	CU
043	RYE	CU
044	JUSTICE	CU
045	CHASE	CU ZN AG
046	NICOLA LAKE	CU AU AG
047	MOUSE	PB CU
048	GUICHON	CU AU AG MO
049	SUNNY BOY	CU
050	ANACONDA	FE CU
051	SOO	CU AG
052	LEADVILLE	PB ZN AG CU
053	CHARMER	CU AU AG
054	PORCUPINE	CU
055	TURLIGHT (L.4841)	CU AG AU
056	MANCHESTER (L.1216)	CU
057	HC	CU
058	MERRITT COAL	CL
059	SOPHIA	PB ZN CU
060	MOSS 4	CU
061	NORMANDALE	CL
062	SKY	CU
063	WIZ	CU MO AG AU
064	VAL	CU
065	BUCK	CU
066	COAL GULLY	CL
067	MAD ARAB	CU PB ZN AG AU
068	WP	CU HG
069	SKU	CU
070	GAZA	CU MO
071	ROD	CU
072	FIDDLER	CU MO
073	PAT	CU MO
074	PRICE	CU MO
075	SAHARA	CU
076	LYNN	CU
077	CLARKE	CU MO
078	TYNER LAKE	CU
079	TAP	CU
080	VIKING	CU
081	COLDWATER HILL	CL
082	ELL	CU ZN AG AU
083	MIKE	CU
084	MINT	CU MO
085	LEM	CU
086	RWS	CU
087	MAG	CU
088	IDE-AM	CU MO
089	JERICHO 18	CU MO
090	GNAT 2 FR.	CU MO
091	MALACHITE HILL	CU
092	JAY 11	CU
093	WIZ 47	CU
094	OLD ALAMEADA (L.4507)	AG PB ZN CU AU
095	OLD ALAMEADA NO. 1 (L.4506)	CU ZN
096	OLD ALAMEADA NO. 2 (L.4508)	CU PB
097	OLD ALAMEADA NO. 3 (L.4505)	CU PB ZN
098	OLD ALAMEADA NO. 4 (L.4504)	CU PB ZN LS
099	OLD ALAMEADA NO. 5 (L.4503)	CU PB
100	ALAMEADA NO. 6 (L.4501)	CU AU
101	THELMA (L.4510)	AG PB ZN AU CU LS
102	BERNICE (L.4502)	AG PB ZN AU CU
103	OLD EVELYNN (L.4511)	AG PB ZN AU
104	OLD CORONA NO. 1 (L.4512)	AG PB ZN AU
105	GLORIA 1	CU AU AG
106	GOLD GOSSAN 2	CU PB WO
107	BAG	AU AG
108	TUBAL CAIN (L.586)	PB ZN CU
109	JOSHUA (L.588)	AG AU PB ZN CU WO
110	KING WILLIAM (L.592)	PB ZN CU AG AU
111	SILVER KING NO. 2 (L.4103)	AG AU PB ZN CU
112	EMULATOR	AG AU PB ZN CU WO
113	MOON (L.5084)	WO PB ZN CU
114	RAVEN NO. 2 (L.5079)	AG AU PB ZN CU
115	MARY REYNOLDS (L.674)	AG PB ZN AU CU
116	COUTLEE	BN
117	CLIFF	AU CU PB
118	CAT 1	CU AU
119	HIGH GRADE	CU
120	AL	CU AU
121	COPPER BELLE	CU AG
122	RALPH	CU FE
123	COPPERADO-P66	CU
124	COPPERADO-A6	UR
125	COPPERADO-TM 1	CU AG MO
126	OLE-PAT	CU MO
127	ZONE 1	ZN PB
128	ZONE 2	ZN PB CU AG
129	ZONE 3	ZN PB CU AG
130	CHATKO	CU FE
131	IRON KING-IRON QUEEN	FE
132	PEACOCK	CU
133	AC	CU
134	CINDY	CU AU
135	CLAPPER	CU AU AG ZN PB
136	DON	AU AG CU PB ZN WO
137	SID	CU
138	QUILCHENA	BN CL
139	QUILCHENA COAL	CL
140	MERRITT GYPSUM	GY CL
141	COLDWATER NO. 5	CL
142	DIAMOND VALE	CL
143	NIK	CU
144	PROMONTORY HILLS	LS
145	NICOLA LAKE LIMESTONE	LS
146	MM	CU
147	JHC	CU AG
148	LAW	CU PB ZN AU AG
149	JA	CU MO
150	YUBET	CU
151	MAGNA COPPER	CU
152	ANN	CU MO
153	TOM	CU
154	WENDY	CU
155	PLUG	AU AG CU PB ZN
156	LD	CU PB ZN AG AU
157	CAPER	CU
158	CIG 100	CU AU AG ZN
159	DOT	CU ZN
160	REY	CU MO
161	TRUMP	CU AG ZN
162	ETTA	CU
163	SAR	CU
164	DOR	CU AG
165	ME	CU AG MO
166	SACK	AU CU MO
167	SA	CU
168	CINDERELLA	CU LS
169	NAP	CU ZN
170	POM POM	CU
171	JUA	CU
172	IND	CU
173	BETTY LOU	CU PB ZN
174	CLAP	CU MO
175	NO SURRENDER	AG AU PB ZN CU
176	MAYBELLE FRACTION (L.5114)	AG PB ZN CU AU
177	MARION C FRACTION (L.5077)	AG PB ZN CU
178	WIN	CU AG ZN
179	REDBIRD	AU AG
180	SOUTH NICOLA	CL
181	BR 1	CU
182	JPG 2	CU AG
183	JPG 1	CU ZN
184	IXL NO. 6 (L.5111)	AG PB ZN CU AU
185	BR 3	CU
186	JOE	CU
187	TIC-TAC-TOE	CU AG
188	BLUE JAY	CU
189	LARON	CU

OCCURRENCES DELETED FROM PREVIOUS MAP RELEASES

Old Number	Old Name	NTS	Reason for deletion
092ISE145	LINE-LINK	01W	Sulphide mineralization
092ISE151	MLM	07W	Included with 092ISE065,071
092ISE162	M FR.	08W	Mineralized float boulders
092ISE198	IRON MOUNTAIN	02W	Same as 092ISE052
092ISE199	ULLA	08W	Pyrite mineralization
092ISE200	NICOLA	02E	No evidence

OCCURRENCES RENUMBERED FROM PREVIOUS MAP RELEASES

Old Number	Name	NTS	New Number
092ISE190	MAGNA COPPER	02W	092ISE151
092ISE191	JOE	07W	092ISE186
092ISE192	ETTA	02W	092ISE162
092ISE193	CIG 100	08W	092ISE158
092ISE194	CAPER	07W	092ISE157
092ISE195	LD	02E	092ISE156
092ISE196	LAW	02W	092ISE148
092ISE197	SOPHIA	07E	092ISE059
092ISE201	NICOLA LAKE LIMESTONE	02E	092ISE145
092ISE202	PROMONTORY HILLS	02W	092ISE144
092ISE203	COUTLEE	02W	092ISE116
092ISE204	COLDWATER HILL	02W	092ISE081
092ISE205	COAL GULLY	02W	092ISE066
092ISE206	NORMANDALE	02E	092ISE061
092ISE207	MERRITT COAL	02E	092ISE058
092ISE208	BRUCE	01W	092ISE026
092ISE209	DIANE	02W	092ISE022

COMMODITY LEGEND

CODE (INDEX)	COMMODITY	COMMODITY (INDEX)	CODE
AG	Silver	Bentonite	BN
AU	Gold	Coal	CL
BN	Bentonite	Cobalt	CO
CL	Coal	Copper	CU
CO	Cobalt	Gold	AU
CU	Copper	Gypsum	GY
FE	Iron	Iron	FE
GY	Gypsum	Lead	PB
HG	Mercury	Limestone	LS
LS	Limestone	Mercury	HG
MO	Molybdenum	Molybdenum	MO
PB	Lead	Silver	AG
UR	Uranium	Tungsten	WO
WO	Tungsten	Uranium	UR
ZN	Zinc	Zinc	ZN