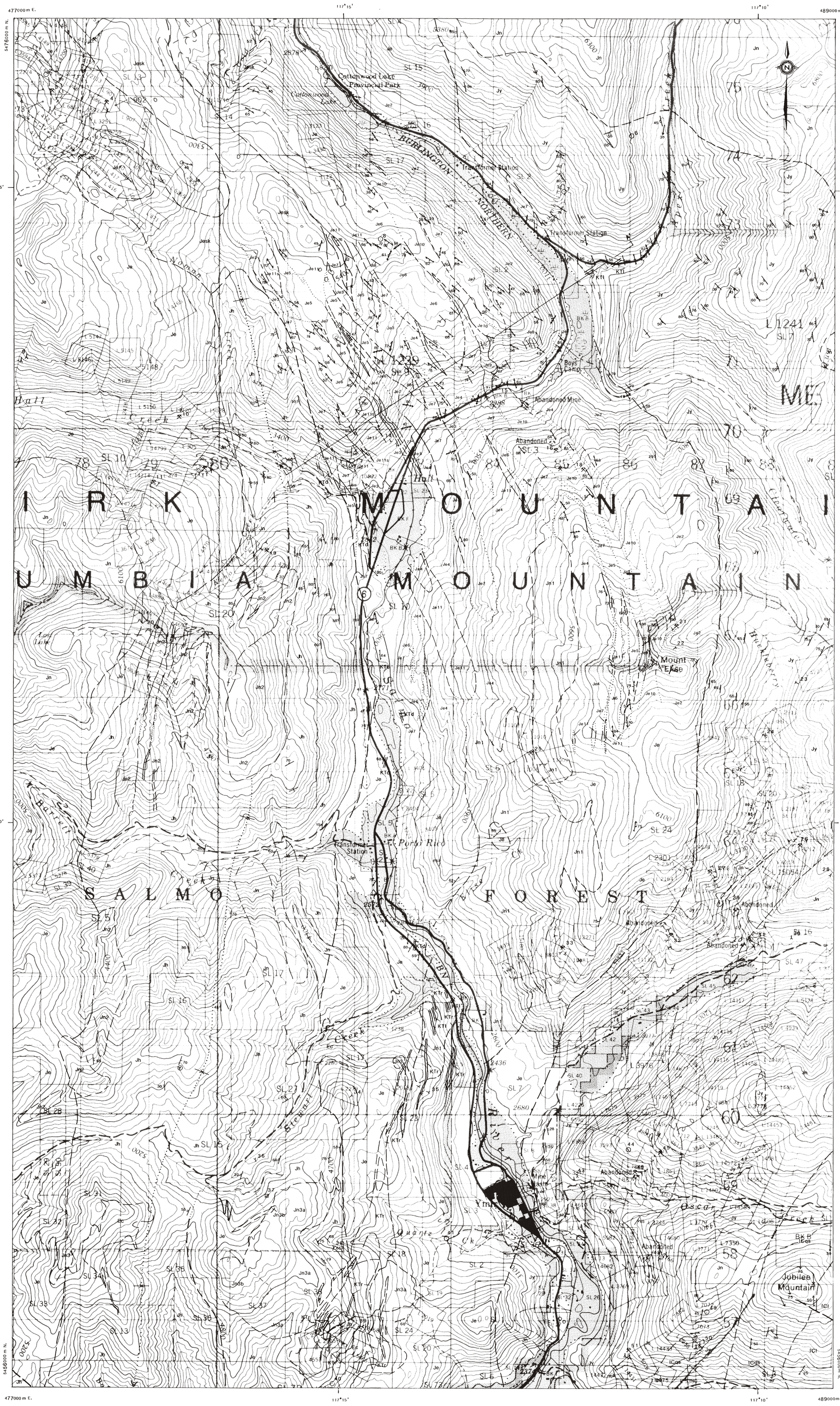


Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

OPEN FILE MAP NO. 1988–1

PRELIMINARY GEOLOGY AND MINERAL OCCURRENCES IN THE ROSSLAND GROUP BETWEEN NELSON AND YMIR, SOUTHEASTERN BRITISH COLUMBIA

(NTS 82F/06)

By Kathryn Andrew and Trygve Höy

(SEE BELOW FOR ADDITIONAL SOURCES OF DATA)

SCALE 1:20 000

METRES 400 0 400 800 1200 1600 METRES

FEET 1000 0 1000 2000 3000 4000 5000 FEET

LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Unconsolidated deposits: Till, sand, gravel, silt

TERTIARY OR OLDER (?)

KTd, diorite dykes

KTl, lamprophyre dykes

KTr, rhyolite dykes

MIDDLE EOCENE

Ec *CORYELL INTRUSIONS: biotite monzonite, biotite-augite monzonite*

MESOZOIC

JURASSIC

Jn *NELSON INTRUSIONS: Jn_1, granodiorite; Jn_2, diorite porphyry; Jn_{3a}, quartz monzonite; Jn_{3b}, quartz monzonite breccia*

LOWER AND MIDDLE JURASSIC

ROSSLAND GROUP

Jh *HALL FORMATION: siltstone, sandstone, conglomerate, argillite; minor limey argillite and impure limestone*

Je *ELISE FORMATION: mafic to intermediate flows, tuffs and subvolcanic intrusions; minor epiclastic deposits*

upper ELISE FORMATION

Je11 *Plagioclase porphyry including the SILVER KING INTRUSION (Jesk); Je_{11s} sheared*

Je10 *Tuffaceous conglomerate: conglomerate, grits, sandstone, siltstone; crossbeds, scours, and channels*

Je9 *Tuffaceous siltstone: siltstone, reworked lithic crystal tuff; graded beds, basal scours, crossbeds*

Je8 *Plagioclase porphyritic flows: (15–30% plagioclase)*

Je7 *Plagioclase augite lapilli tuff: (10–20%) plagioclase, <5% augite, lapilli up to 6 cm)*

Je6 *Plagioclase augite crystal tuff: (10–20% plagioclase, <5% augite)*

Je5 *Mafic ash tuff, commonly foliated*

Je4 *Medium-grained (<5 mm) augite porphyry flow breccia*

Je3 *Medium-grained (<5 mm) augite porphyry flows*

lower ELISE FORMATION

Je2 *Coarse-grained (5–10 mm) augite porphyry flow breccia*

Je1 *Coarse-grained (5–10 mm) augite porphyry flows (not differentiated from Je_2 on map)*

LOWER JURASSIC AND OLDER (?)

Jy YMIR GROUP: *argillite, siltstone, grits, impure limestone; minor chert, feldspathic wacke and limey siltstone near top*

PALEOZOIC

LOWER CAMBRIAN

ICl *LAIB FORMATION: phyllite, argillite, schist, micaceous quartzite; minor limestone*

LOWER CAMBRIAN AND OLDER (?)

ICqs *Quartzite, schist, argillite, slate, limestone; minor igneous members*

SYMBOLS

Limit of Mapping or Exposure

Geological Contact: (defined, approximate, assumed)

Fault: (defined, approximate, assumed)

Syncline: (defined, approximate, assumed)

Bedding: (inclined, vertical, top unknown, overturned)

Cleavage, Foliation

Lineation

Vein Attitude: (inclined, vertical)

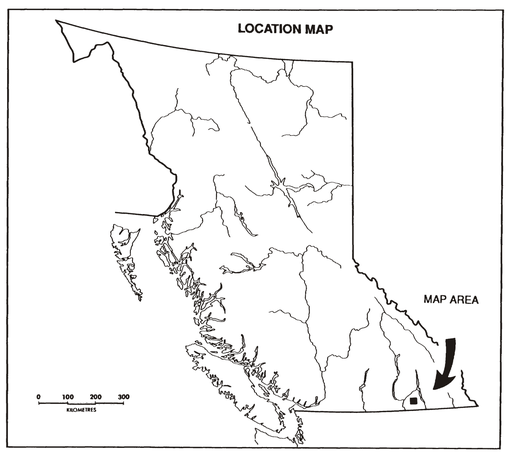
Mineral Occurrence: (past producer, developed prospect with adit(s) developed prospect with shaft, showing)

Fossil Locality

Glacial Striae

(100 FOOT CONTOUR INTERVAL)

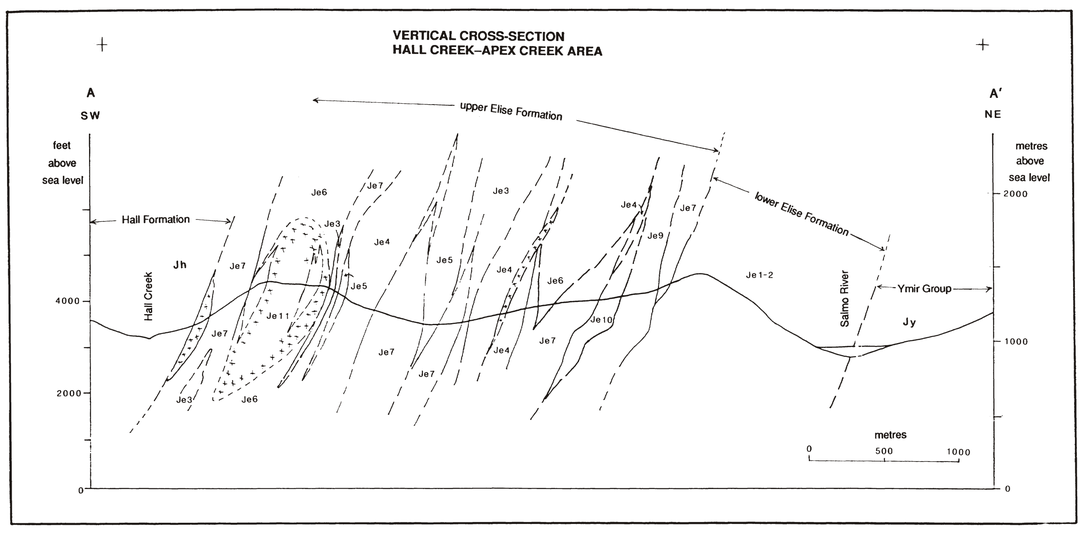
LOCATION MAP



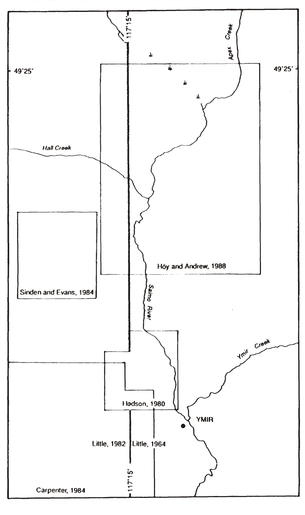
MINERAL OCCURRENCES IN THE NELSON–YMIR MAP AREA

MAP NO.	MINFILE NO. (82F/SW)	NAME	COMMODITIES	TYPE	HOST	STATUS	REFERENCES
1	172	Great Eastern	Au, Ag	Vein	Je_{11}	Past Producer	MINFILE
2	174	Starlight	Au, Ag	Vein	Je	Showing	MINFILE
3	173	Victoria	Au, Ag	Vein	Je	Past Producer	MINFILE
4	175	Daylight	Au, Ag	Vein	Je	Past Producer	MINFILE
5	176	Silver King	Au, Ag, Cu, Pb, Zn	Vein	Je	Past Producer	MINFILE
6	316	Bluebird	Au, Ag	Vein, Disseminated	Jy	Showing	MINFILE
7	–	–	Ag, Pb, Zn	Vein	Jy	Showing	Höy & Andrew (1988)
8	237	Kena	Cu, Au	Stockwork	Je_8	Showing	MINFILE
9	308	Flying Dutchman	Au, Ag, Cu	Vein	Je	Developed Prospect	MINFILE
10	181	Gold King	Au, Cu, Ag	Vein, Disseminated	Je	Past Producer	MINFILE
11	182	Bear	Au, Ag	Vein	Je	Past Producer	MINFILE
12	183	Fern	Au, Ag	Vein	Je	Past Producer	MINFILE
13	–	Three Friends	Cu, Au	Vein	Je	Developed Prospect	Cockfield (1936)
14	–	Unknown	Cu, Au, Ag	Vein	Je_{11}	Developed Prospect	Little (1964)
15	185	Golden Age	Au, Ag, Wo, Pb, Zn	Vein	Je_{10}	Past Producer	MINFILE
16	186	Euphrates	Au, Ag, Pb, Zn	Vein	Je_{10}	Past Producer	MINFILE
17	–	Lost Cabin	Au, Ag, Cu	Vein	Je_{10}	Past Producer	Drysdale (1917)
18	–	–	Au, Ag, Cu	Vein	Je_8	Past Producer	Höy & Andrew (1988)
19	184	Canadian Belle	Au, Ag	Vein	Jh	Past Producer	MINFILE
20	211	Mammoth	Mo, Cu, Ag, Au	Skarn, Disseminated	Je, Jh	Showing	MINFILE
21	–	Jennie Bell	Au, Ag, Pb	Vein	Je_7	Past Producer	Drysdale (1917)
22	–	Unknown	Au, Ag, Pb	Vein	Je_1	Developed Prospect	Drysdale (1917)
23	313	Summit	Au, Ag, Mn	Vein	Jy	Developed Prospect	MINFILE
24	192	Elise	Ag, Au	Vein	Jy	Developed Prospect	MINFILE
25	79	Gold Cup	Au, Ag, Cu	Vein	Je_4	Past Producer	MINFILE
26	75	Good Hope	Au, Zn, Ag, Cd	Vein, Disseminated	Jy	Past Producer	MINFILE
27	74	Ymir	Au	Vein	Jy	Past Producer	MINFILE
28	–	Unknown	–	–	Jn	Developed Prospect	Little (1964)
29	–	Unknown	Au	Vein	Jy	Developed Prospect	Little (1964)
30	–	Unknown	–	–	Jn	Developed Prospect	Little (1964)
31	–	Unknown	–	–	Jn	Developed Prospect	Little (1964)
32	73	Protection	Au	Vein	Jy	Past Producer	MINFILE
33	72	Tamarac	Au	Vein, Disseminated	Je	Past Producer	MINFILE
34	–	Unknown	–	–	Je	Developed Prospect	Little (1964)
35	250	Bobbi	Mo, Wo	Porphyry	Je	Developed Prospect	MINFILE
36	311	Arrow Tungsten	Wo, Mo	Skarn	Jh	Developed Prospect	MINFILE
37	229	Stewart	Mo, Wo, Au	Porphyry Pipe	Jh	Developed Prospect	MINFILE
38	–	Lion	–	–	Jh	Developed Prospect	Little (1982)
39	70	May Blossom	Pb, Zn, Au, Mo, W	Vein, Massive	Je	Developed Prospect	MINFILE
40	277	Free Silver	Pb, Ag	Vein	Jh	Showing	MINFILE
41	251	Fresno	Mo	Stockwork, Unclassified	Je	Showing	MINFILE
42	197	Myrtle	Au, Ag, Pb, Zn	Vein	Je	Developed Prospect	MINFILE
43	281	Shiloh	Au, Zn, Pb	Vein	Jy	Developed Prospect	MINFILE
44	239	Atlin–Nome	Au	Vein	Jy	Showing	MINFILE
45	68	Yankee Girl	Au, Ag, Pb, Zn	Vein, Massive and Disseminated	Jy	Past Producer	MINFILE
46	67	Dundee	Au, Ag, Pb, Zn	Vein, Massive and Disseminated	Jy	Past Producer	MINFILE
47	69	Two Star	Au, Pb, Zn	Vein	Jn	Developed Prospect	MINFILE
48	66	Centre Star	Au, Pb, Zn, Ag	Vein, Massive	Jy	Developed Prospect	MINFILE
49	284	New York Central	Au	Vein	Jn	Showing	MINFILE
50	65	Anne	Pb, Zn, Au	Vein, Disseminated	Jy	Developed Prospect	MINFILE
51	198	Dewey	Ag, Au, Pb, Zn	Vein, Disseminated	Jn	Past Producer	MINFILE

VERTICAL CROSS-SECTION HALL CREEK–APEX CREEK AREA



RECENT MAPPING AND SOURCES OF DATA



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