

Deposit	IC Matrix #	Comments	Deposit
Bonington	ICP10001	Al, Si, Fe, Ti, Ca, Mg	Polymetamorphic gneiss, quartzite, schist
...
Summit Creek	ICP10001	Al, Si, Fe, Ti, Ca, Mg	Polymetamorphic gneiss, quartzite, schist

REFERENCES

Andrew, K.P.E., Hoy, T., and Drobe, J.
1990. Geology of the Rossland Group, Bonington Creek Area, Southeastern B.C. (B2716E), by K.P.E. Andrew, T. Hoy and J. Drobe (1:20 000), 1 sheet, Open File 1990-9.

Andrew, K.P.E., Hoy, T., and Simony, P.
1991. Geology of the Tilt Map Area, Southeastern British Columbia (B2713, 4, 5, 6), (1:100 000), 1 sheet, Open File 1991-16.

Einarson, J.M.
1984. Structural geology of the Perot d'Orville area and tectonic evolution of the southern Kootenay Arc. Thesis of dissertation, Doctoral, Monograph, University of Calgary, Calgary, AB, Canada (CAN), 217 p. and maps.

Fyles, J.T. and Hewlett, C.G.
1959. Stratigraphy and structure of the Salmo lead-zinc area, British Columbia Department of Mines, Bulletin 41, 152 p.

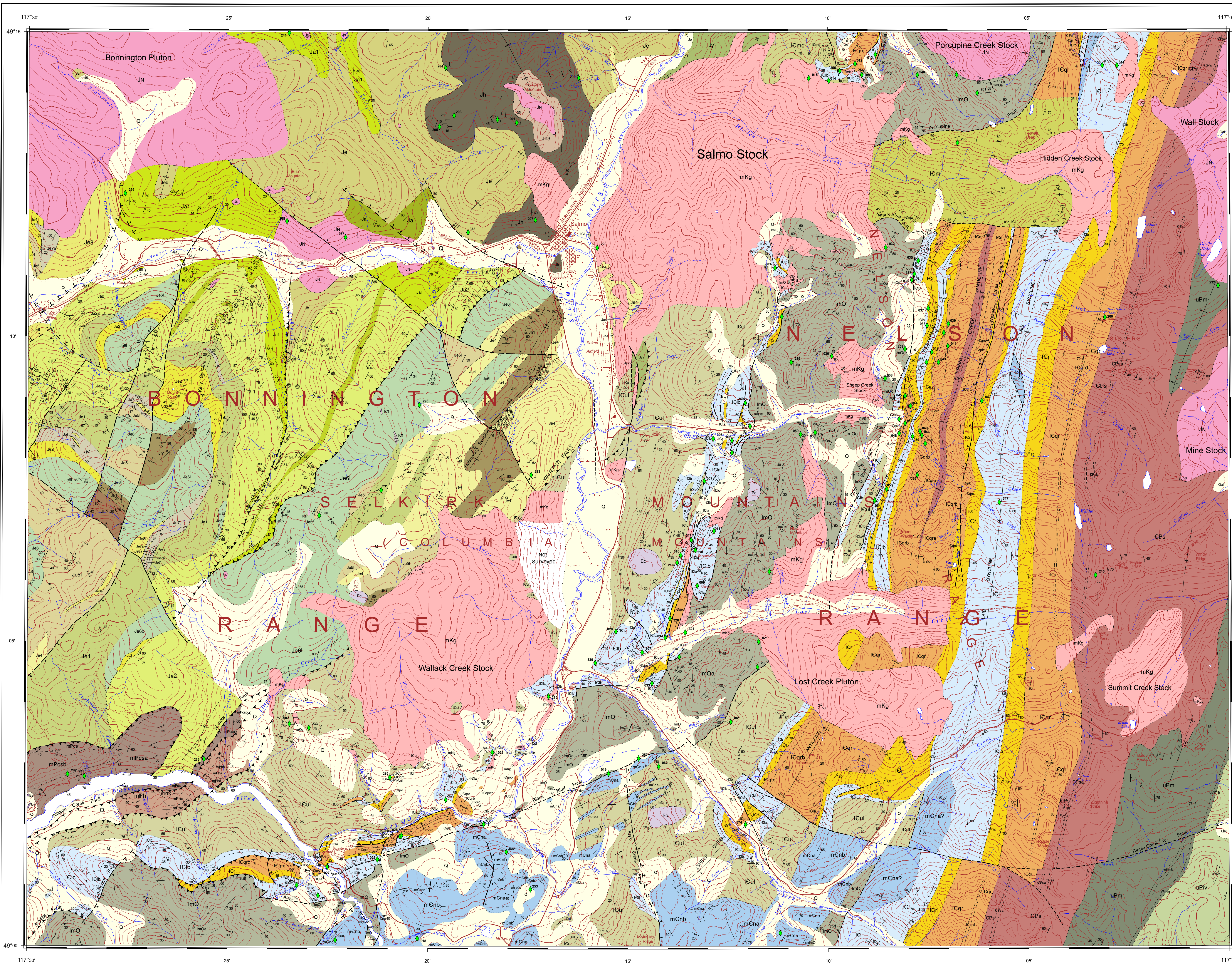
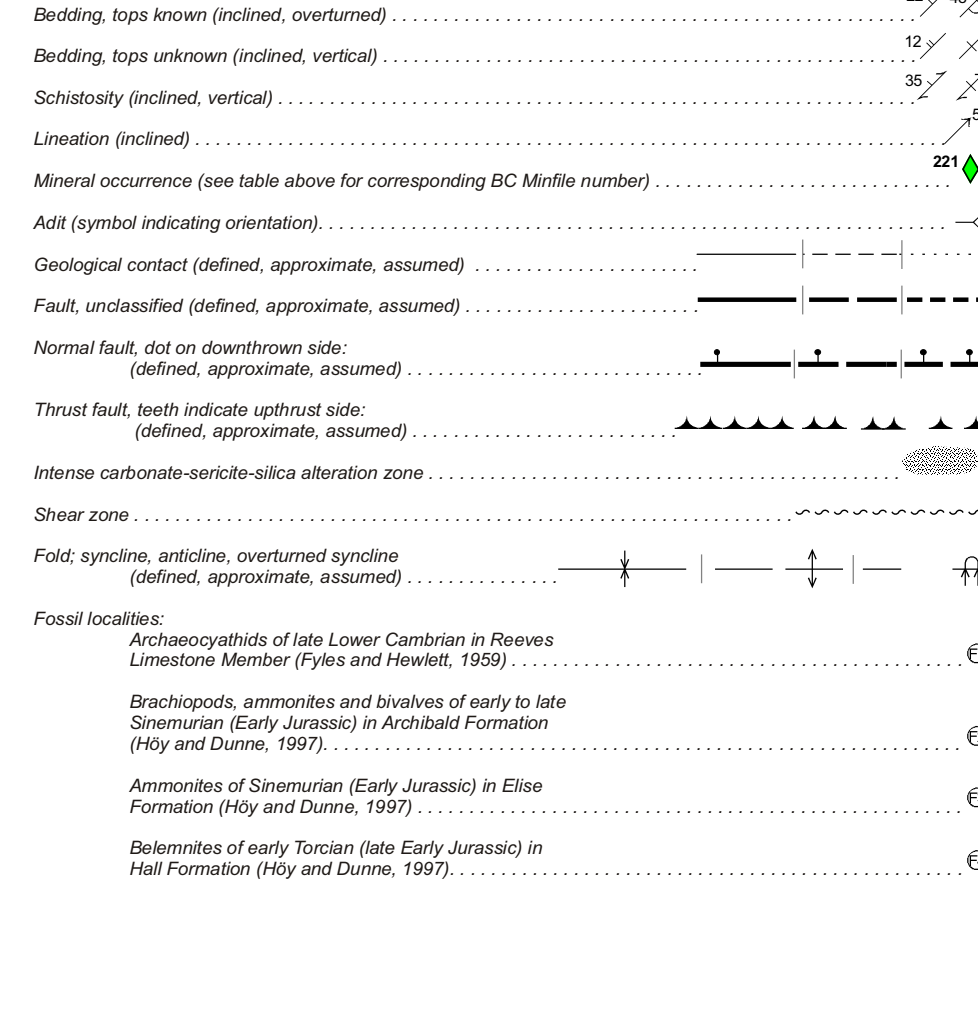
Hoy, T. and Andrew, K.P.E.
1990. Geology of the Rossland Group, Mount Kelly - Hocking Creek Area, Southeastern B.C. (B2730W) (1:20 000), 1 sheet, Open File 1990-8.

Hoy, T. and Durne, K.P.E.
1997. Early Jurassic Rossland Group, southern British Columbia, Part 1 - Stratigraphy and Tectonics, BC Ministry of Energy, Mines and Petroleum Resources, Bulletin 102, 124 p.

Little, H.W.
1965. Geology, Salmo, British Columbia. Geological Survey of Canada, "A" Series Map 1145A, 1965.

Mathews, W.H.
1953. Geology of the Sheep Creek Camp, British Columbia Department of Mines, Bulletin no. 31, 94 p.

SYMBOLS



LEGEND

QUATERNARY

- Q Unconsolidated sediments, till, sand, gravel, all.

Tertiary or older (?)

- Kr Rhyolite dykes

GENOZOIC

Eocene

- Ec Coarse Plutonic rocks: Amphibole-biotite monzonite, biotite-hornblende granites

Oligocene

- Es Sheppard Intrusions: Laccaroneite granite and quartzite

MESOZOIC

Mid Cretaceous

- mKg Biotite granites, quartz monzonites, monzonites, granites, diorite

Mid Jurassic

- Jm Nelson Intrusions: Porphyritic granites, granodiorite, quartz monzonite, tonalite, minor diorite, porphyry and breccia

Lower and Middle(?) Jurassic

Rossland Group

Hill Formation

- Jh1 Diabase, argillite, local abundant volcanic rocks
- Jh2 Carbonaceous siltstone and hornfels
- Jh3 Polymict pebble conglomerate, grt, ilite, amibole and muscovite, minor silty argillite
- Jh4 Argillite, rusty weathering, minor siltstone

Elise Formation

- Je1 Unfoliated mafic to intermediate volcanic flows, tuffs, sub-volcanic intrusions and epistatic deposits
- Je2 Tuffaceous conglomerate: a, predominantly mafic volcanic clasts; b, mixed mafic to felsic volcanic clasts; c, predominantly intermediate to felsic volcanic and intrusive clasts and (local) of Drouillard Creek occasional limestone clasts; d, abundant limestone clasts; e, siltstone and mafic volcanic clasts
- Je3 Tuffaceous siltstone, sandstone, argillaceous siltstone
- Je4 Andesite tuff, minor basaltic tuff; (a) tuff with glauconite and shale-bearing volcanic clasts; b, glauconite and shale-bearing volcanic clasts
- Je5 Basaltic tuff; (a) argillite-phylite lapilli tuff, pyroclastic breccia; (b) mafic, fine tuff
- Je6 Argillite, a glauconite basal flow, fine breccia

Lower Elise Formation (Mount Kelly Area)

- Je7 Basaltic to andesitic lapilli, crystal and fine tuff, muscovite pyroclastic deposits
- Je8 Basaltic lapilli tuff with argillite and glauconite-bearing volcanic clasts

Lower Elise Formation

- Je9 Argillite, a glauconite basal flow, fine breccia, subvolcanic intrusions

Archibald Formation

- Ja1 Turbidite sandstone, siltstone, argillite
- Ja2 Basalt, andesite flows, lapilli tuff
- Ja3 Turbidite siltstone, wacke, minor conglomerate; a, conglomerate, commonly containing limestone clasts
- Ja4 Argillite, minor siltstone

Lower Jurassic and Upper Triassic (?)

Yr Group

- Y1 Turbidite sandstone and siltstone, gneissiferous

PALEOZOIC

middle Paleozoic (Devonian to Lower Triassic ?)

- mCa1 Carbonaceous Creek Assemblage: a, siliceous argillite, black phyllite, slate; b, black limestone
- mCa2 Halcott Creek Assemblage: mafic tuff and volcanoclastic breccia, chert, banded mafic, and quartzite; a, black argillite; b, grey limestone; c, chert, quartzite

Lower and (?) Middle Ordovician

- IC1 Active Formation: Black carbonaceous argillite and slate; a, grey limestone and argillaceous limestone; b, siliceous argillite and limestone; c, dolomite, siliceous breccia, and limestone

Middle Cambrian

- IC2 Neway Formation: Cream weathering grey dolomite, limestone and argillite; a, limestone and carbonaceous argillite; b, dark and light grey dolomite; c, grey limestone

Lower Cambrian to Ordovician (?)

- IC3 Upper Lab Formation (Index Formation equivalent): Black phyllite, mica schist, micaceous quartzite, carbonaceous phyllite, minor limestone

Lower Cambrian

- IC4 Lab Formation: a, Turner Member: Dark phyllite with marble interbeds; b, Reeves Limestone member (Baldhot equivalent): Grey limestone (zabak mafic), minor dolomite (dolomitic marble); c, Emerald Member: Black phyllite and argillite
- IC5 Reno Formation: Argillaceous quartzite, mica schist
- IC6 Quartzite Range Formation: White, green, and pinkish quartzite; a, Motherloo Member: White quartzite, minor argillite, grt and green schist; b, Nugget Member: White quartzite, argillaceous quartzite and argillite at base; c, Nevada Member: Thin bedded argillaceous quartzite, white quartzite at top; d, argillaceous quartzite, probably equivalent to lower Nugget Member (b)

Lower Cambrian and Proterozoic

- IC7 Undivided metamafic rocks: Quartzite, argillite, slate, minor limestone; a, limestone, argillite; b, quartzite, argillite, minor limestone; c, white and grey quartzite; d, black phyllite and schist
- IC8 Three Sisters Formation: Green and grey grt and quartzite, minor conglomerate and green schist; a, conglomerate; b, obsidian schist; c, brown micaceous schist

PROTEROZOIC

- uPm1 Musk Formation: Green argillite and phyllite; a, conglomerate; b, limestone
- uPm2 Inver Volcanic Formation: Greenstone; minor argillite near base; a, limestone

OPEN FILE 6048
BEDROCK GEOLOGY
SALMO
BRITISH COLUMBIA

Authors: S. Paradis, R.F. MacLeod, and R. Emperingham

Geological compilation by S. Paradis, R.F. MacLeod, and R. Emperingham, 2007-2008

Geology by Mathews (1953), Fyles and Hewlett (1959), Little (1965), K.P.E. Andrew, T. Hoy and P. Simony (1991), and J. Einarson (1994)

Co-ordinated through the auspices of the Targeted Geoscience Initiative (TGI)

Digital cartography by R.F. MacLeod and R. Emperingham Geological Survey of Canada (Pacific Division)

Scale 1:50 000/Echelle 1/50 000

Universal Transverse Mercator Projection
North American Datum 1983
© Her Majesty the Queen in Right of Canada 2009

Projection transversale universelle de Mercator
Système de référence géodésique nord-américain 1983
© Sa Majesté la Reine en chef du Canada 2009

Digital base map from data compiled by Geomatics Canada, modified by R.F. MacLeod

Magnetic declination 2009: 10°19' E, decreasing 12" annually

Elevations in feet above mean sea level

Contour interval 200 feet

Scale bar and location map.

OPEN FILE
DOSSIER PUBLIC
6048

Geological Survey of Canada
Commission géologique du Canada

Open files are products that have not gone through the GSC formal publication process. Les dossiers publics sont des produits qui n'ont pas été soumis au processus officiel de publication de la GSC.

2009