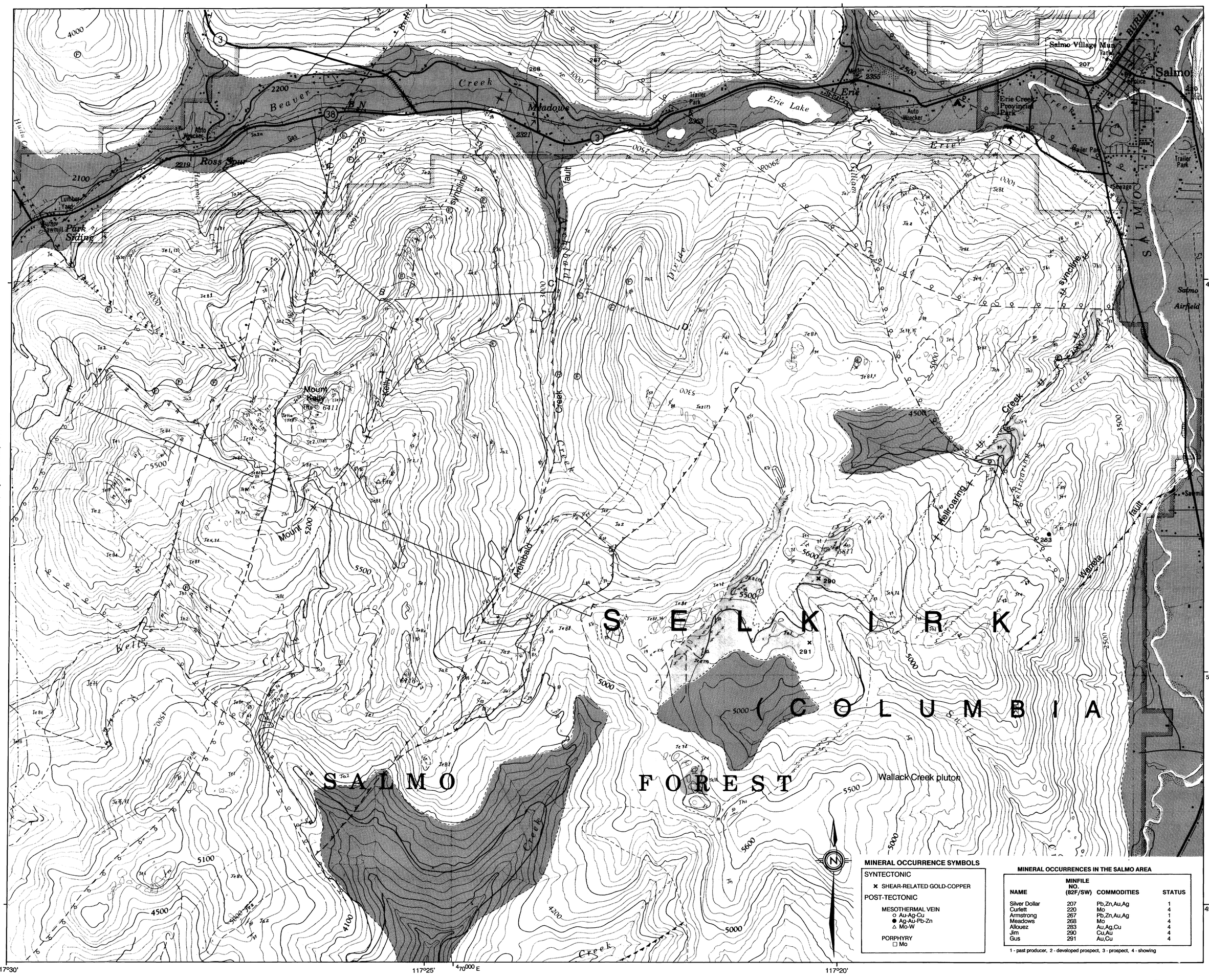
see Andrew, Hoy and Drobe, 1990



LEGEND

CENOZOIC

QUATERNARY

- UNCONSOLIDATED DEPOSITS: TILL, SAND, GRAVEL, SILT

TERTIARY OR OLDER (?)

- KTr — RHYOLITE DYKES

MIDDLE EOCENE

- Ec — CORYELL INTRUSIONS: BIOTITE MONZONITE, BIOTITE-AUGITE MONZONITE

MESOZOIC

JURASSIC

- Jn — NELSON INTRUSIONS: GRANODIORITE, QUARTZ MONZONITE

LOWER AND MIDDLE(?) JURASSIC

ROSSLAND GROUP

- Jh — HALL FORMATION: SILTSTONE, SANDSTONE, CONGLOMERATE, ARGILLITE; MINOR LIMEY UNITS
  - Jh2 — POLYMICT PEBBLE CONGLOMERATE, GRIT, LITHIC ARENITE AND WACKE; MINOR SILTY ARGILLITE
  - Jh1 — ARGILLITE, RUSTY WEATHERING; MINOR SILTSTONE
- Je — ELISE FORMATION: MAFIC TO INTERMEDIATE FLOWS, TUFFS, EPICLASTIC DEPOSITS AND SUBVOLCANIC INTRUSIONS

epiclastic units

- Je 11 — TUFFACEOUS CONGLOMERATE: Je11a, PREDOMINANTLY MAFIC VOLCANIC CLASTS; Je11b, MIXED MAFIC TO FELSIC VOLCANIC CLASTS; Je11c, PREDOMINANTLY INTERMEDIATE TO FELSIC VOLCANIC AND INTRUSIVE CLASTS AND (WEST OF DOUBTFUL CREEK), OCCASIONAL LIMESTONE CLASTS ; Je11d, ABUNDANT LIMESTONE CLASTS; Je11e, SILTSTONE AND MAFIC VOLCANIC CLASTS
- Je 10 — TUFFACEOUS SILTSTONE, SANDSTONE: Je10a, ARGILLACEOUS SILTSTONE

pyroclastic units

- Je8 — ANDESITE TUFF, MINOR BASALTIC TUFF; Je8i, LAPILLI TUFF WITH PLAGIOCLASE ± AUGITE-BEARING VOLCANIC CLASTS; Je8s, PLAGIOCLASE ± AUGITE CRYSTAL TUFF
- Je7 — BASALTIC TUFF: Je7i, AUGITE-PHYRIC LAPILLI TUFF, PYROCLASTIC BRECCIA; Je7t, MAFIC, FINE TUFF

flow units

- Je5 — PLAGIOCLASE ± AMPHIBOLE, AUGITE ANDESITE
- Je4 — AUGITE ± PLAGIOCLASE BASALT FLOWS, FLOW BRECCIAS

LOWER ELISE FORMATION (MOUNT KELLY AREA)

pyroclastic units

- Je3 — BASALTIC TO ANDESITIC LAPILLI, CRYSTAL AND FINE TUFF; REWORKED PYROCLASTIC DEPOSITS; BASE SURGE DEPOSITS (?)
- Je2 — BASALTIC LAPILLI TUFF WITH AUGITE ± PLAGIOCLASE BEARING VOLCANIC CLASTS

LOWER ELISE FORMATION

- Je1 — AUGITE ± PLAGIOCLASE BASALT FLOWS, FLOW BRECCIAS, SUBVOLCANIC INTRUSIONS
- Ja — ARCHIBALD FORMATION: SILTSTONE, SANDSTONE, ARGILLITE; COMMONLY RUSTY WEATHERING
  - Jav — BASALT, ANDESITE FLOWS; LAPILLI TUFF
  - Ja2 — TURBIDITE SILTSTONE, WACKE, MINOR CONGLOMERATE; Ja2a, CONGLOMERATE, COMMONLY CONTAINING LIMESTONE CLASTS
  - Ja1 — ARGILLITE; MINOR SILTSTONE

PALEOZOIC

- Pms — METASEDIMENTS, LIMESTONE

SYMBOLS

- Limit of mapping, exposure, geological station
- Geological contact: (defined, approximate, assumed)
- Fault: (defined, approximate, assumed)
- Fault, thrust
- Fault, normal (early)
- Fault, normal (late)
- Syncline: (defined, approximate, assumed)
- Syncline, overturned
- Bedding: (inclined, vertical, overturned, top unknown)
- Cleavage, foliation
- Lineation
- Mineral deposit, occurrence: (see table for symbols)
- Fossil locality — Ⓕ
- Shear zone
- Intense carbonate-sericite-silica alteration zone
- (100 FOOT CONTOUR INTERVAL)

MINERAL OCCURRENCE SYMBOLS

SYNTECTONIC

- × SHEAR-RELATED GOLD-COPPER

POST-TECTONIC

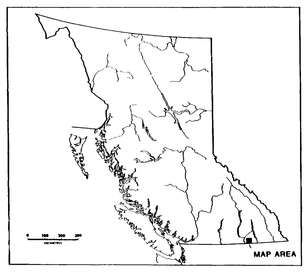
MESOTHERMAL VEIN
- ○ Au-Ag-Cu
- ● Ag-Au-Pb-Zn
- △ Mo-W

PORPHYRY
- □ Mo

MINERAL OCCURRENCES IN THE SALMO AREA

NAME	MINFILE NO. (82F/SW)	COMMODITIES	STATUS
Silver Dollar	207	Pb,Zn,Au,Ag	1
Curlett	220	Mo	4
Armstrong	267	Pb,Zn,Au,Ag	1
Meadows	268	Mo	4
Allouez	283	Au,Ag,Cu	4
Jim	290	Cu,Au	4
Gus	291	Au,Cu	4

1 - past producer, 2 - developed prospect, 3 - prospect, 4 - showing



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

MINERAL RESOURCES DIVISION

GEOLOGICAL SURVEY BRANCH

OPEN FILE 1990-8

GEOLOGY OF THE ROSSLAND GROUP, MOUNT KELLY - HELLROARING CREEK MAP AREA, SOUTHEASTERN BRITISH COLUMBIA

NTS 082F/03

TRYGVE HØY AND KATHRYN ANDREW

SCALE 1:20 000

0 feet 5000

0 metres 2000