PRELIMINARY GEOLOGICAL MAP OF THE BRUCEJACK CREEK AREA, BRITISH COLUMBIA (part of 104B/8)

by

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Scale 1 : 5 000

0 100 200 300 400 500 metres

LEGEND

md — Postmineral mafic dyke

INTENSELY ALTERED ROCKS (LOWER JURASSIC?)

Ac — Green, dominantly chloritic, pyritic, altered rocks (metapropylitic alteration)

As — Pale sericite (±chlorite), quartz, pyrite schist (metaphyllic and/or meta-argillic alteration)

Ar — Pale, massive, hard, feldspathized and/or silicified rocks (potassic, sodic, and/or siliceous alteration and pale pyritic hornfels)

MITCHELL INTRUSIONS (LOWER JURASSIC?)

JRmf — Felsic: syenite and monzonite porphyry, aplitic maroon granite; JRmfg- low-silica, maroon, aplitic granite; JRmfk-potassic monzonite; JRmfs-Sulphurets (sodic) (albite, hornblende) porphyry; JRmfp-Premier (two-feldspar) porphyry; JRmfm) post-mineral, magnetite-bearing monzonite

JRmm — Mafic: plagioclase-hornblende porphyry, diorite, monzodiorite; JRmmd-diabase

LAYERED ROCKS

LOWER TO UPPER JURASSIC

BOWSER LAKE GROUP

JRb — Greywacke, siltstone,carbonaceous mudstone, conglomerate, chert

JRsr — *Salmon River Formation*: JRsrs-rhythmically-bedded carbonaceous mudstone, siltstone, greywacke, fossiliferous limy sandstone; JRsrv-massive, columnar-jointed or pillowed, amygdaloidal basalt, pillow breccia, polylithic breccia

LOWER JURASSIC

HAZELTON GROUP

JRmd — *Mount Dilworth Formation*: dacite, rhyolite, felsic bedded tuff, welded tuff, ash tuff, fossiliferous limy sandstone

JRh — JRhs-interlayered greywacke, arenite, siltstone, conglomerate, carbonaceous mudstone, lithographic limestone, chert; JRhv-andesite, trachyandesite, basalt, intermediate and mafic breccia, epiclastic rocks

JACK FORMATION

JRJ — Fossiliferous limy sandstone, siltstone, mudstone, conglomerate, greywacke, carbonaceous mudstone

UPPER TRIASSIC

STUHINI GROUP

TRs — TRss- greywacke, arenite, siltstone, carbonaceous mudstone, slate, conglomerate, breccia, pebbly mudstone, lithographic limestone, polylithic breccia; TRsv- pyroxene-phyric tuff and breccia, pillow lava, pillow breccia, monolithic breccia

COMMENTS

1) Sources of Information: General geology by R. V. Kirkham (1986-1991) and detailed mapping of the West Zone and Old Yeller by S. N. Roach (1989), Shore Zone and Galena Hill by S. L. Gardiner (1989), and Golden Marmot by S. N. Roach and B. T. Malahoff (1991).

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3) Cartography was by S. N. Roach, assisted by J. Carrière.

4) Base Map: Esso Minerals Canada orthophoto map (1981).

5) No fossils have been found in this area, structural relations are complex and, in places, alteration is intense. Therefore, stratigraphic assignments shown on this map are much in doubt and subject to revision. In intensely altered areas, alteration type has been shown rather than the original rock type.

6) Not all units shown in the legend occur on this map sheet.

Symbols

- Area of outcrop, small outcrop
- Geological contact (defined, assumed)
- Bedding (inclined, vertical, overturned, tops known)
- Schistosity, cleavage (inclined, vertical)
- 54 Lineation (plunge)
- Anticline
- Syncline
- 60 Small fold, with plunge
- Fault (defined, assumed)
- Fault (inclined, vertical – arrows indicate relative movement)
- 30 Structural lineament
- Vein or sheeted vein; vein system or stockwork
- U – Pb zircon dating sample
- Rock dump
- Trench
- Portal
- Diamond-drill hole
- Raise
- Road
- Building
- Lake

Abbreviations

Ag	Silver
As	Arsenic
Au	Gold
Cu	Copper
Mo	Molybdenum
Pb	Lead
Zn	Zinc
Ba	Barite
H	Hornfels
Po	Pyrrhotite
Py	Pyrite
Sp	Sphalerite

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