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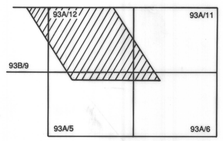
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
PRELIMINARY MAP NO. 67

GEOLOGY OF THE HYDRAULIC MAP AREA NTS 93A/12

1:50 000
0 1 2 3 4 5
KILOMETRES

122° 121°45′ 52°45′ 52°30′



SYMBOLS

- Outcrop: large, small
- Bedding attitude: tops known, unknown, overturned
- Geological contact: known, approximate
- Fault: inferred
- Foliation
- Lineation: direction of plunge
- Fossil locality
- Significant mineral occurrence (see below)
- Cu Py cpy mal — Mineral occurrence; native copper, pyrite, chalcopyrite malachite
- Zone of mineralisation
- Limit of geological mapping
- Placer workings

SIGNIFICANT MINERAL OCCURRENCES

1. QR: GOLD (–COPPER)
2. CARIBOO-BELL: COPPER (–GOLD)
3. ML: COPPER
4. MOREHEAD CREEK: COPPER
5. BULLION PIT: COPPER
6. GAVIN LAKE: MOLYBDENUM–COPPER

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

TERTIARY	PLEISTOCENE	11	Glacial, fluvioglacial and fluvial gravel and sand
	MIOCENE	10	Green, grey and maroon plateau basalt (alkali olivine basalt)
CRETACEOUS			
JURASSIC	PLIENSBACHIAN	6	Cobble conglomerate; clasts of chert, limestone, sandstone; carbonaceous shale and sandstone
		5	Well bedded dark grey siltstone and sandstone
	SINEMURIAN	4	Maroon, vesicular alkali olivine basalt, commonly analcite-rich
		3C	Feldspathic tuffaceous siltstone and sandstone: minor breccia
		3B	Lattic crystal tuff, tuff breccia and tuffaceous sandstone: minor latte flow breccia
		3A	Maroon and grey polylithic breccia; clasts of mafic and intermediate compositions in chloritic and feldspathic matrix
		2H	Coarse-grained greenish grey and brown sandstone, grey medium–grained sandstone and dark grey siltstone and argillite
TRIASSIC	NORIAN	2G	Massive grey limestone and calcareous sandstone
		2F	Interbedded dark grey mafic sandstone and siltstone
		2E	Analcite-bearing maroon and greenish grey alkali basalt; feldspathic in places
		2D	Hornblende-bearing pyroxene basalt
		2C	Polylithic, grey and maroon mafic breccia; minor feldspathic clasts
		2B	Maroon, pyroxene-phyric alkali basalt
		2A	Green and grey pyroxene-phyric alkali olivine basalt and alkali basalt
	CARNIAN	1	Dark grey siltstone, brown and grey sandstone; unit becomes volcaniclastic towards top. Minor conglomerate and dark grey limestone

INTRUSIVE ROCKS

- 9 — Grey hornblende granodiorite and quartz monzonite
- 8 — Fine- to coarse-grained grey nepheline syenite: locally orbicular
- 7 — Grey and pink, medium fine grained monzonite, monzodiorite, syenodiorite and syenite; pyroxene and/or hornblende-bearing

Geology by Bailey (1987, 1975); Fox et al. (1986), Bailes (1977)
Geology compiled by D.G. Bailey, 1987

REFERENCES:

Bailey, D.G. 1976: Geology of the Morehead Lake area, Central British Columbia. Preliminary Map No. 20; *B.C. Department Mines and Petroleum Resources.*

Bailes, R.J., (1977): The Cariboo-Bell Alkaline Stock, British Columbia. M.Sc. Thesis (unpubl.) *University of Manitoba.*

Fox, P.E., R.S. Cameron and S.J. Hoffman, 1986; Geology and Soil Geochemistry of the Quesnel River Gold Deposit, British Columbia. In 'Geoexpo '86' Proceedings, *Association of Exploration Geochemists*, Vancouver, May 1986.

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