

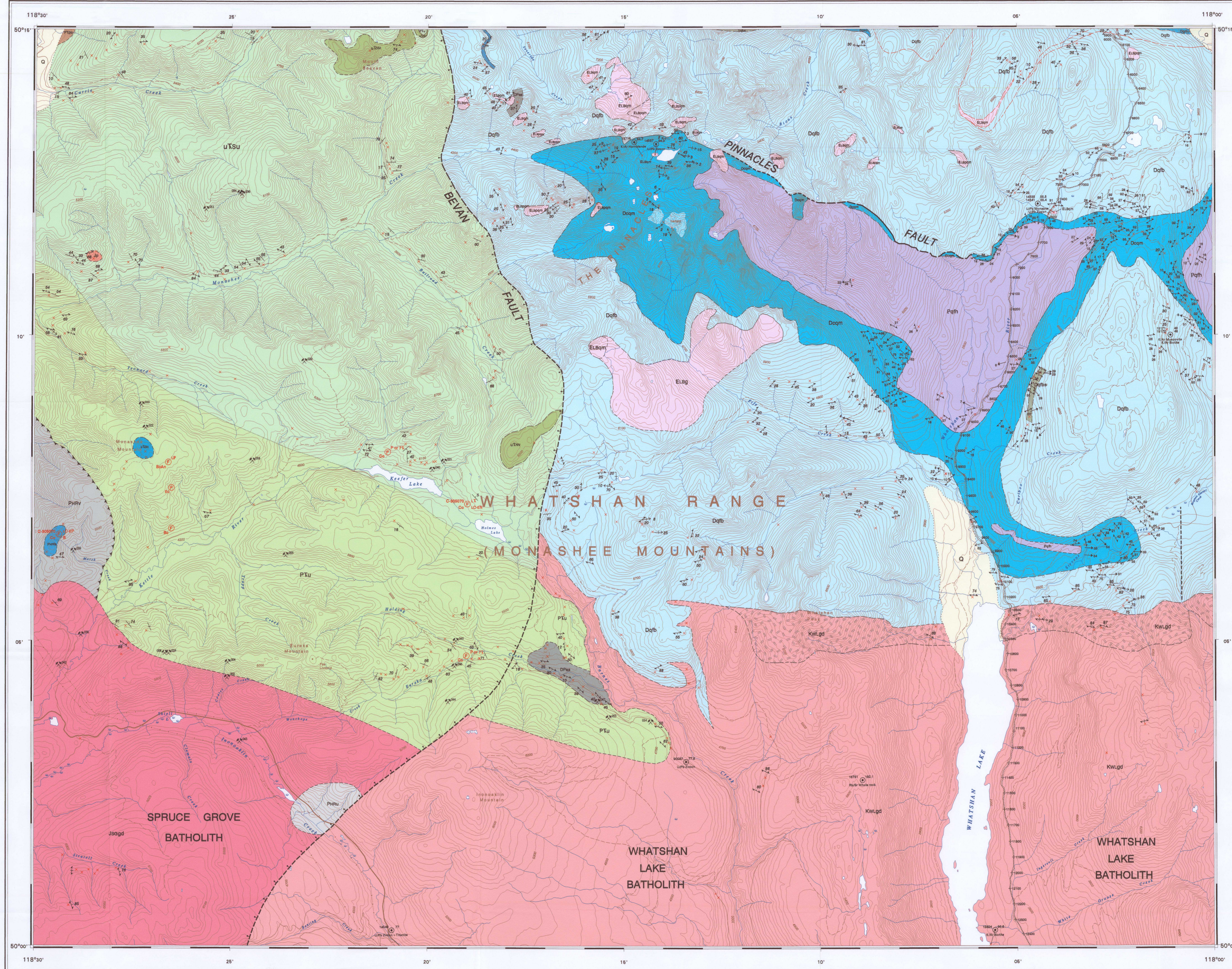
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MINERAL OCCURRENCE INDEX

MINFILE NO	NAME	COMMODITY
093-SE004	ISS	AG, AU, PB, CU
093-SE006	LGR	AG, AU, CU
093-SE011	SILVER BELL (L. 4309)	AG, AU, PB, CU, ZN
093-SE020	FOX	AG, PB, AU, CU
093-SE020	ST PAUL	AG, AU, PB, ZN, SB, CU
093-SE022	MORGAN	AU, AG, PB, ZN
093-SE025	DOVA	AG, AU, PB, ZN, CU, SB
093-SE021	KL	AU, AG
093-SE026	HOSE	AU, AG
093-SE029	MARSH CREEK	AU
093-SE025	LYNX	AU, AG, CU, MO, PB, SB
093-SE028	NO NAME	AU
093-SE045	HOLDING CREEK	AU
093-SE028	PALADORA (L. 2185)	AU, AG, PB, ZN
093-SE024	BALLABAT	AU, AG, CU
093-SE042	KETTLE RIVER	AU
093-SE024	RENOUVIN	AU, AG
093-SE045	ELSIKIA CREEK	AU
093-SE022	PARADISE	AG, AU
093-SE044	EUREKA	AU
093-SE047	FRED WEST	ZN
093-SE043	BARNES CREEK	AU
093-SE044	FRED	ZN, AG
093-SE042	INDONAKLIN CREEK	AU

Source: British Columbia Ministry of Energy and Mines, MINFILE database available at: <http://www.em.gov.bc.ca/cim/minfile/d40d.htm>



LEGEND

QUATERNARY
PLEISTOCENE AND HOLOCENE
Q Quaternary: Unconsolidated sediments; glacial deposits, colluvium and alluvium; few if any outcrops; probable subunit within parentheses

Tertiary
LATE PALEOCENE TO MIDDLE EOCENE
LADYBIRD PLUTONIC SUITE (~54-59 Ma)
ELBg Ladybird Granite Intrusion: Granite to quartz-monzonite having less than 10% biotite; substantial amounts of plagioclase, potassium feldspar and quartz; accessory muscovite, allanite and/or garnet may be present
ELBqm Ladybird monzonite: Lineated leucocratic monzonite; minor pegmatite
ELBpqm Ladybird pegmatite: Pegmatite

CRETACEOUS
KwLgd Whatshan Lake Batholith (~77-79 Ma): Leucocratic, potassium feldspar, megacrystic, hornblende-bearing quartz monzonite; includes Caribou Creek stock on east side of Arrow Lake
KwLgd Interlayered KwLgd and Dqfb

JURASSIC
Jomd OKANAGAN PLUTONIC SUITE (~161 Ma; NELSON PLUTONIC SUITE) Unfoliated to weakly foliated, medium- to coarse-crystalline biotite and/or hornblende monzonite, quartz-monzonite, diorite, quartz-diorite, and granite
JSPgd Spruce Grove Batholith (~174 Ma): Unfoliated to weakly foliated, medium- to coarse-crystalline, hornblende-biotite granodiorite to leucogranite
Jp Plagioclase-hornblende porphyry stock (age assumed): Grey-green, plagioclase-hornblende porphyry

TRIASSIC
UPPER TRIASSIC (and/or LOWER JURASSIC?)
NICOLA GROUP
uTnv Nicola volcanic rocks: Breccia, tuff, flow, augite porphyry (may be correlative with the Lower Jurassic Rossland Group)
UPPER TRIASSIC
SLOCAN GROUP
uTsu Slocan aliclastic rocks: Grey to black phyllite, argillite, quartzite, minor tuffaceous rocks
uTsc Slocan carbonaceous limestone: Black to grey, fine-crystalline limestone, calcareous siltstone with shale interbeds

PERMIAN and/or LOWER TRIASSIC
PTdq Black quartzite: Dark grey, biotite-bearing pyritic quartzite; cherty quartzite; alicious argillite
PTu Permian and/or Triassic aliclastic and volcanic rocks: Dark grey to black carbonaceous argillite, may be pyritic granodiorite, meta-andesite, volcanic breccia; black graphitic limestone; minor massive, fine-crystalline limestone
PERMIAN
HARPER RANCH GROUP
PHru Harper Ranch aliclastic and volcanic rocks: Predominantly metasedimentary rocks with intercalations of meta-volcanic rocks; siltstone, sandstone, argillite, conglomerate, breccia, phyllite, quartzite, limestone, tuff, andesite, minor marble, hornfels, slum
PHrls Harper Ranch crystalline limestone: Massive light- to dark-grey crystalline limestone
PHrv Harper Ranch volcanic rocks: Andesitic flows and agglomerate; augite and/or plagioclase-phylic flows; volcanic breccia; lignite tuff; cherty tuff; limestone blocks
DEVONIAN to PERMIAN
DPas Silica amphibole schist: Hornblende-biotite-plagioclase schist, may be calcareous. Can occur as discontinuous markers within and overlying Dqfb

DEVONIAN (and CARBONIFEROUS?)
SILVER CREEK FORMATION (Jones, 1959)
Dqfb Silver Creek schist: Quartz-feldspar-muscovite-biotite schist with or without garnet, allanite and allanite; black carbonaceous schist; dark grey to tan micaceous quartzite; minor white-to-grey marble; amphibolite schist; minor amphibolite (map units Pab4 and Pab5 of Read, 1979a)
Dm Silver Creek marble: Medium to coarse crystalline, white to dark grey marble (map unit Pab5 of Read, 1979a)
Dqfbs Silver Creek staurolite schist: Grey- and brown-weathering muscovite-biotite schist having a proportion of large staurolite porphyroblasts up to 2 cm in length (map unit Pab5 of Read, 1979a)

MIDDLE? DEVONIAN
CHASE FORMATION (CALCAREOUS QUARTZITE MARKER UNIT)
Dcoqm White to light grey, cliff-forming, calcareous quartzite having a coarse pitted texture on weathered surfaces; dip-slope rich calcareous bands (map unit F3 of Reesor and Moore, 1971)
Dqmu Chase marble: White, coarse crystalline marble interlayered with biotite-muscovite schist and discontinuous layers of Chase Formation quartzite (Dcoqm; map unit Pab5 of Read, 1979a)

Paleo- and/or Mesoproterozoic
Pqlh Toluus schist: Biotite-quartz-feldspar schist (with or without allanite, garnet); feldspar-quartz-hornblende schist (with or without biotite); amphibolite; calc-silicate gneiss; micaceous quartzite (map units M and F of Reesor and Moore, 1971)

SYMBOLS

Foliation (unclassified): inclined, horizontal, vertical
Bedding, top unknown: inclined, vertical
Axial plane (1st phase fold): inclined, vertical
Cleavage
Mineral lineation
Fold hinge: crenulation lineation
Fold hinge: z-wedging
Joint set
Outcrop
Fault locality (localities with no database number taken from Okulitch, 1979)
Geochronology sample location
Mineral Occurrence
Southern Cordillera Lithoprobe transect line No. 6 with shot point numbers
Geological boundary: defined, approximate, assumed (Lines taken from Read (1979a) but differentiation of map units not shown)
Geological boundary: notional (no geological control)
Geological boundary: gradational
Quaternary limit
Fault, contraction (teeth indicates upthrust side): defined, approximate, assumed
Fault, extension (solid circle indicates downthrown side): defined, approximate, assumed
Unclassified fault: defined, approximate, assumed

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2004: Geology, Eureka Mountain, British Columbia: Geological Survey of Canada, Open File 4370, scale 1:50 000.

OPEN FILE
DOSSIER PUBLIC
4370
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2004

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Geology by R.I. Thompson and P. Glombick, 2000; Y. Lemieux, 2002; P.B. Read, 1976; J.E. Reesor and E. Frasca, 1987
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Co-ordinated by R.I. Thompson through the auspices of the Ancient Pacific Margin NATMAP project
Digital cartography by R.F. MacLeod, Geological Survey of Canada, Pacific Division
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE 4370
GEOLOGY
EUREKA MOUNTAIN
BRITISH COLUMBIA
Scale 1:50 000/Echelle 1/50 000
Kilometres 0 1 2 3 4 Kilometres
Universal Transverse Mercator Projection
North American Datum 1983
© Her Majesty the Queen in Right of Canada 2004
Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983
© Sa Majesté la Reine du chef du Canada 2004

Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division
Mean magnetic declination 2004, 18°11'E, decreasing 9.3' annually.
Elevations in feet above mean sea level
Contour interval 100 feet

8207	8208	8209
OF 4376	OF 4377	OF 4380
8202	8201	8204
OF 4371	OF 4370	OF 4388
8215	8216	8213