

- REFERENCES**
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MINERAL OCCURRENCE INDEX

MINFILE NO	NAME	COMMODITY
082LW157	WHY 2	AU,AG
082LW132	BRETT COSSAN	AU,AG
082LW192	COLD STAR	AU,AG
082LW047	BREWER	AU,AG,CU,PB,ZN
082LW119	BRETT	AU,AG
082LW131	BRETT NEW	AU
082LW084	BRETT EAST	AU
082LW151	UPPER WHITEMAN CREEK	AU
082LW085	BOULEAU CREEK	AU
082LW089	WHITEMAN CREEK	AU
082LW057	LONE STAR	AS
082LW129	CHAPPERON	AE,GS
082LW048	PAT	CU
082LW128	LOCH	MO
082LW071	ASH 1	MO
082LW134	ASH 2	MO
082LW108	SHORTS CREEK AGATE	AE,GS
082LW042	WHITE ELEPHANT (L. 4880)	AU,AG,BI,TE,WO
082LW062	SHORTS CREEK	CL
082LW004	ZON	AU
082LW014	FINTRY POINT	WL,LS,MB,BS
082LW051	AT	MO,CU
082LW003	ESPERON 2	MO,WO
082LW004	ESPERON 1	MO
082LW005	ESPERON 3	MO
082LW160	TERACE MOUNTAIN	PIE
082LW082	BALD	UR
082LW140	ESPERON 17	MO,ZN
082LW043	DOBINA NORTH	MO
082LW141	ESPERON 11	MO
082LW154	OYAMA 2	UR
082LW009	TADPOLE	MO
082LW118	JACK	AU
082LW119	FLAP	AU,AG
082LW137	TAD 3 WEST	CU
082LW056	CHROME-VANADIUM	CR
082LW138	TAD 3 EAST	CU
082LW111	ZUMBA	AU,AG,CU,ZN,PB
082LW117	BOND	AU,AG
082LW005	COBBER	CU,PT,FR,AG,MO,UR
082LW112	BALD RANGE	MB,DS,BS
082LW127	WHITEMAN	CU,MO

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



- LEGEND**
- QUATERNARY**
- PLEISTOCENE AND HOLOCENE**
- Q Quaternary: Unconsolidated sediments; glacial deposits, colluvium and alluvium; few if any outcrops; probable subcrop unit within parentheses
- TERTIARY**
- Eocene**
- Eu Conglomerate, sandstone and minor shale, andesite, dacite and rhyolite flows, breccias and tuffs
 - Ev Eocene andesitic volcanic facies: Aphanitic to porphyritic andesite to dacite flows; volcanic breccias; intercalations of sandstones and conglomerate
- MARRON FORMATION**
- EMBV Grey vitrophytic (plagioclase) dacite flows
- PENTICTON GROUP**
- ATTENBOROUGH CREEK FORMATION**
- EAB Mainly thin bedded andesite and dacite lava and breccia
 - EAB Olivine basalt
 - EMKA Kiley Lake Member: Porphyritic (feldspar) trachyandesite flows
- KAMLOOPS GROUP**
- DEWROP FLATS FORMATION**
- EDva Grey aphanitic or porphyritic agulite, olivine trachyandesite flow and interflow breccia
 - EDvp Grey porphyritic member: Grey porphyritic (plagioclase) trachyandesite and dacite flows
- TRANQUILLE FORMATION**
- ETx Tranquille sedimentary breccia member: Sedimentary breccia
 - ETscg Tranquille epiclastic member: Pebble conglomerate, sandstone, minor shale; rare thin coal seams
- LATE PALEOCENE TO MIDDLE EOCENE**
- ECsy Coryell syenite (~48Ma): Pink, medium to coarse-crystalline syenite; may be biotite- and/or pyroxene-bearing
 - EWmg Whiteman Creek Stock (~45-50 Ma): Medium to coarse-crystalline, pink to red syenite and quartz syenite; pink and white mottled granite
- JURASSIC**
- OKANAGAN PLUTONIC SUITE (~181 Ma; NELSON PLUTONIC SUITE)**
- Jomd Unfoliated to weakly foliated, medium to coarse-crystalline biotite and/or hornblende monzonite, quartz-monzonite, diorite, quartz-diorite, granodiorite, and granite. Jopq Quartz diorite, porphyritic, leucocratic. Jod Diorite, equigranular, medium-crystalline, α minor granitic intrusion
 - JWlm Wood Lake Pluton (~181 Ma): Unfoliated to weakly-foliated, megacrystic, medium to coarse-crystalline biotite and/or hornblende-monzonite; quartz-monzonite; diorite; quartz-diorite, granodiorite, granite
 - Jsg Sandberg pluton: Monzonite, medium-crystalline to porphyritic
- WHITE ROCKS MOUNTAIN PLUTONIC SUITE (~150-174 Ma)**
- JWmpm Porphyritic monzonite (potassium feldspar <2.5cm) to non-porphyritic monzonite
 - JWmpms Porphyritic monzonite-syenite (potassium feldspar <2.5cm)
 - JWmkms Megacrystic monzonite-syenite (potassium feldspar 2.5-1.6cm)
 - JWmmms Melanocratic monzonite-syenite
 - JWmcpz Hornblende-biotite clinopyroxene with minor hornblende-clinopyroxene hornblende and gabbro/diorite
 - JWmt Trachyte, chilled margin phase
- TRIASSIC**
- UPPER TRIASSIC (and/or LOWER JURASSIC)**
- NICOLA GROUP**
- UTNv Nicola volcanic rocks: Breccia, tuffs, flows, agulite porphyry (may be correlative with the Lower Jurassic Rossland Group)
- SLOCAN GROUP**
- UTSU Slocan alloclastic rocks: Dark-gray argillite; dark-gray calcareous argillite; dark-gray sandy phyllite; light to medium-gray siltstone; minor volcanic breccia, sandstone and agglomerate
- PERMIAN (and TRIASSIC)**
- Pum Barton Hill ultramafic suite (Old Dave intrusions): Ultramafic and mafic intrusions; commonly altered or serpentinized; pyroxenite, gabbro
- PERMIAN**
- HARPER RANCH GROUP (may contain Lower-Middle Triassic strata)**
- PHRU Harper Ranch alloclastic and volcanic rocks: Predominantly metasedimentary rocks with intercalations of metavolcanic rocks; siltstone, sandstone, argillite, conglomerate, breccia, phyllite, quartzite, limestone, tuff, andesite, minor marble, hornfels, skarn
 - PHRS Harper Ranch crystalline limestone: Massive light- to dark-gray crystalline limestone
- PALEOZOIC**
- CHAPPERON GROUP**
- PCu Predominantly phyllite to schistose quartzite, quartzose phyllite and schist, massive quartzite, biotite schist, chlorite phyllite and schist, minor crystalline limestone, chert. Quartzites and phyllite rocks appear to be meta siltstone
 - PCv Metavolcanic member: Predominantly chlorite phyllite and schist, meta-diorite
- SYMBOLS**
- Foliation (unclassified): inclined, horizontal, vertical
 - Bedding, top unknown: inclined, vertical
 - Vein: inclined, vertical
 - Bedding: Upright
 - Unknown (XU)
 - Outcrop: Fossil locality (Localities with no database number taken from Okulitch, 1979)
 - Geochronology sample location
 - Mineral Occurrence
 - Southern Cordillera Lithoprobe transect line No. 10
 - Geological boundary: defined, approximate, assumed
 - Geological boundary: notional (no geological control)
 - Geological boundary: gradational
 - Quaternary limit
 - Fault, extension (bold circle indicates downthrown side); defined, approximate, assumed

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2004



Geology by P.B. Reed, 1966-68, K.L. Daughy, 1969-2002, and R.I. Thompson, 1968

Geological compilation by K.L. Daughy and R.I. Thompson, 2003

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

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GEOLOGY
SHORTS CREEK
BRITISH COLUMBIA

Scale 1:50 000/Echelle 1/50 000

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983
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Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division

Mean magnetic declination 2004, 18°34'E, decreasing 9.3' annually.

Elevations in feet above mean sea level
Contour interval 100 feet

Universal Transverse Mercator Grid
North American Datum 1983
Zone 11

8208	8209	8210
OF 4374	OF 4375	OF 4376
8201	8204	8203
OF 4373	OF 4372	
8205	8213	8214