



**MINERAL OCCURRENCES**

Number	Name	Minerals	Reference
1	REXSPAR	U, F	82M-21
2	FOGHORN (CHIDGRIN)	Ag, Pb, Zn, Cu	82M-40
3	LYDIA	Pb, Ag, Cu	82M-8
4	JUDY	Mo, Cu	82P-38
5	WINDPASS	Au, Cu, Bi, Ag	82P-39
6	SWEET HOME	Au, Cu, Bi	82P-40
7	GOLD HILL	Au, Pb, Cu, Zn, Ag	82P-41
8	QUEEN BESS	Pb, Zn, Ag	82P-42
9	CC (CHI CHUI)	Cu, Zn	82P-140
10	ENARGITE	Pb, Zn	82M-65
11	FORTUNA 1	Pb	82M-72
12	FORTUNA 2	Pb	82M-70
13	COPPER CLIFF	Pb, Zn, Cu	82M-67
14	RAINBOW	Cu, Pb, Zn	82M-67
15	C-C	Cu, Pb, Zn	82M-67
16	MAY	Cu, Zn	82M-131
17	BROKEN RIDGE	Pb, Zn, Cu	82M-130
18	HARPER	Cu, Pb, Zn	82M-60
19	EBL	Cu	82M-51
20	KAJUN LAUNE	Ag, Pb, Zn, Cu	82M-58
21	TWIN MOUNTAIN	Pb, Zn, Cu, Ag, Au, berrite	82M-50
22	REA	Au, Ag, Pb, Zn, Cu	82M-191
23	HOMESTAKE	Ag, Pb, Zn, Au, Cu, berrite	82M-25
24	BECA (TOM)	Cu, Pb, Zn, Au, Ag	82M-55
25	JOE (GLEN)	Cu, Pb, Zn	82M-54
26	ELISE	Pb, Zn, Ag, Au	82M-12
27	LUCKY COON	Pb, Zn, Ag, Au, As	82M-12
28	KING TUT	Ag, Pb, Zn, Au	82M-13
29	SPAR	Pb, Zn, Ag, Cu	82M-17
30	PET	Pb, Zn, Ag	82M-143
31	MOSQUITO KING	Pb, Zn, Ag	82M-16
32	BC (CUB)	Cu, Pb, Zn	82M-139
33	FORTUNA	Cu, Pb, Ag, Au	82P-44

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
**PRELIMINARY MAP NO. 56**  
**GEOLOGY OF THE ADAMS PLATEAU-CLEARWATER AREA**  
 GEOLOGICAL COMPILATION BY PAUL SCHARIZZA AND V.A. PRIETO, BASED ON GEOLOGICAL MAPPING BY V.A. PRIETO, 1977-1980; P. SCHARIZZA, 1979-1981; G.F. MELAREN, 1978-1979; L.J. DANKOW, 1979; AND D. FORSTER, 1980  
 CONDUCTOR IDENTIFICATIONS BY M.J. ORCHARD, GEOLOGICAL SURVEY OF CANADA, VANCOUVER  
 RADIOMETRIC DATING BY R.L. ARMSTRONG AND B. RYAN, UNIVERSITY OF BRITISH COLUMBIA

**DEVONIAN TO PERMIAN**  
 ALLOCHTHONOUS INTERNALLY IMBRICATED OCEANIC ASSEMBLAGE  
**FENNEL FORMATION**  
 UPPER STRUCTURAL DIVISION  
 ufb GREY AND GREEN FILLOINED AND MASSIVE META-BASALT; MINOR AMOUNTS OF BASALTIC BRECCIA, TUFF, DIABASE, GABBRO, AND CHERT  
 ufc GREY AND GREEN BEDDED CHERT  
 LOWER STRUCTURAL DIVISION  
 ifc GREY AND GREEN BEDDED CHERT, CHERTY ANGLITE, SLATE, AND PHYLLITE  
 ifb GREY AND GREEN FILLOINED AND MASSIVE META-BASALT; MINOR AMOUNTS OF BASALTIC BRECCIA AND TUFF  
 ifg GABBRO, DIORITE, DIABASE  
 ifp LIGHT TO MEDIUM GREY QUARTZ-FELDSPAR PORPHYRY RHYOLITE  
 ifs LIGHT TO DARK GREY SANDSTONE, SILTSTONE, SLATE, PHYLLITE, AND QUARTZITE; MINOR AMOUNTS OF LIMESTONE AND CHERT; IN PLACES INCLUDES GREY TO GREEN QUARTZOSE AND FELDSPATHIC PHYLLITE (METATUFF)  
 ifcg INTRAFORMATIONAL CONGLOMERATE CLASTS DERIVED EXCLUSIVELY FROM FENNEL FORMATION LITHOLOGIES  
 ifu UNDIVIDED, MAINLY IFc, IFb, AND IFd, BUT MAY INCLUDE ANY OR ALL OF ABOVE ROCK TYPES

**DEVONIAN-MISSISSIPPIAN AND OLDER PARAUTOCHTHONOUS ROCKS (EBP TO SDQ)**  
**EAGLE BAY FORMATION (EBP TO EBG)**  
**MISSISSIPPIAN**  
 efb DARK GREY PHYLLITE AND SLATE WITH INTER-BEDDED SILTSTONE, SANDSTONE, AND GRIT; MINOR AMOUNTS OF CONGLOMERATE, LIMESTONE, AND METATUFF; EBP-LIMESTONE; EBP-METAVOLCANIC BRECCIA AND TUFF  
**DEVONIAN AND/OR MISSISSIPPIAN**  
 ebf LIGHT TO MEDIUM GREY, RUSTY WEATHERING FELDSPATHIC PHYLLITE AND FRAGMENTAL PHYLLITE DERIVED FROM INTERMEDIATE TO FELDIC TUFFS AND VOLCANIC BRECCIA; MINOR AMOUNTS OF DARK GREY PHYLLITE AND QUARTZITE; EBF-LIGHT GREY MASSIVE "CHERTY QUARTZITE" (SILICEOUS EXHALITE?)  
**DEVONIAN**  
 eba LIGHT SILVERY GREY TO MEDIUM GREENISH GREY SERICITE-QUARTZ PHYLLITE AND SERICITE-CHLORITE-QUARTZ PHYLLITE DERIVED FROM FELDIC TO INTERMEDIATE VOLCANIC AND VOLCANIC-LIKE ROCKS; LESSER AMOUNTS OF LIMESTONE AND DOLOSTONE; MINOR AMOUNTS OF QUARTZITE, GREY PHYLLITE, AND SERICITE-QUARTZ PHYLLITE; EBS-LIMESTONE, DOLOSTONE, MARBLE; EBS-GREENSTONE, FILLOINED METABASALT, CHLORITIC PHYLLITE; EBS-CONGLOMERATE; EBS-GREY PHYLLITE AND SILTSTONE; EBS-SIDERITE-SERICITE-QUARTZ PHYLLITE AND FELDSPATHIC PHYLLITE (METATUFF); EBS-PYRITIC SERICITE-QUARTZ PHYLLITE AND CHLORITIC-SERICITE-QUARTZ PHYLLITE  
 ebg MEDIUM TO DARK GREEN CALCAREOUS CHLORITE SCHIST AND FRAGMENTAL SCHIST DERIVED LARGELY FROM MAFIC TO INTERMEDIATE VOLCANIC AND VOLCANIC-LIKE ROCKS; LESSER AMOUNTS OF LIMESTONE AND DOLOSTONE; MINOR AMOUNTS OF QUARTZITE, GREY PHYLLITE, AND SERICITE-QUARTZ PHYLLITE; EBS-THIN-KIN LIMESTONE MEMBER; MASSIVE LIGHT GREY FINELY CRYSTALLINE LIMESTONE AND DOLOSTONE; EBS-DARK TO LIGHT GREY SILICEOUS AND/OR GRAPHIC PHYLLITE, CALCAREOUS PHYLLITE, LIMESTONE, CALC-SILICATE, CHERTY QUARTZITE; MINOR AMOUNTS OF GREEN CHLORITIC PHYLLITE AND SERICITE-QUARTZ PHYLLITE; EBS-LIGHT TO MEDIUM GREY QUARTZITE; EBS-DARK GREY QUARTZITE; EBS-POLYMETAMORPHIC CONGLOMERATE  
 ebl LIGHT TO DARK GREEN CHLORITIC PHYLLITE, DARK GREY PHYLLITE AND SILTSTONE, LIMESTONE, QUARTZITE  
 ebn GREY AND GREEN VESICULAR AND FILLOINED METABASALT, GREENSTONE, CHLORITIC SCHIST; MINOR AMOUNTS OF BEDDED CHERT, SILICEOUS PHYLLITE AND FINE-GRAINED QUARTZITE  
 ebs Banded light grey and green actinolite-quartz schist and epidote-actinolite-quartz rock; lesser amounts of garnet-epidote schist, chloritic schist, and sericite-quartz schist

**DEVONIAN (?) AND/OR OLDER (?) UNITS (EBU TO EBG) (CONTINUED)**  
 ebl CALCAREOUS BLACK PHYLLITE, DARK GREY LIMESTONE AND ARGILLACEOUS LIMESTONE  
 ebs LIGHT GREY TO WHITE QUARTZITE; EBS-LIMESTONE, DOLOSTONE, MARBLE; EBS-GREENSTONE, FILLOINED METABASALT, CHLORITIC PHYLLITE; EBS-CONGLOMERATE; EBS-GREY PHYLLITE AND SILTSTONE; EBS-SIDERITE-SERICITE-QUARTZ PHYLLITE AND FELDSPATHIC PHYLLITE (METATUFF); EBS-PYRITIC SERICITE-QUARTZ PHYLLITE AND CHLORITIC-SERICITE-QUARTZ PHYLLITE  
 ebg MEDIUM TO DARK GREEN CALCAREOUS CHLORITE SCHIST AND FRAGMENTAL SCHIST DERIVED LARGELY FROM MAFIC TO INTERMEDIATE VOLCANIC AND VOLCANIC-LIKE ROCKS; LESSER AMOUNTS OF LIMESTONE AND DOLOSTONE; MINOR AMOUNTS OF QUARTZITE, GREY PHYLLITE, AND SERICITE-QUARTZ PHYLLITE; EBS-THIN-KIN LIMESTONE MEMBER; MASSIVE LIGHT GREY FINELY CRYSTALLINE LIMESTONE AND DOLOSTONE; EBS-DARK TO LIGHT GREY SILICEOUS AND/OR GRAPHIC PHYLLITE, CALCAREOUS PHYLLITE, LIMESTONE, CALC-SILICATE, CHERTY QUARTZITE; MINOR AMOUNTS OF GREEN CHLORITIC PHYLLITE AND SERICITE-QUARTZ PHYLLITE; EBS-LIGHT TO MEDIUM GREY QUARTZITE; EBS-DARK GREY QUARTZITE; EBS-POLYMETAMORPHIC CONGLOMERATE  
 ebn GREY AND GREEN VESICULAR AND FILLOINED METABASALT, GREENSTONE, CHLORITIC SCHIST; MINOR AMOUNTS OF BEDDED CHERT, SILICEOUS PHYLLITE AND FINE-GRAINED QUARTZITE  
 ebs Banded light grey and green actinolite-quartz schist and epidote-actinolite-quartz rock; lesser amounts of garnet-epidote schist, chloritic schist, and sericite-quartz schist

**TERTIARY OR QUATERNARY**  
 tB OLIVINE BASALT  
**MIOCENE OR PLOCENE**  
 mtB PLATEAU LAVA: OLIVINE BASALT  
**Eocene**  
 eTs SKULL HILL FORMATION AND RELATED ROCKS: ANDSITIC AND BASALT; INCLUDES MINOR AMOUNTS OF MUDSTONE AND SHALE IN THE VICINITY OF ALEX AND HADDAD CREEKS  
 eTc CHU CHUA FORMATION: SANDSTONE, SHALE, CONGLOMERATE, COAL  
**CRETACEOUS OR TERTIARY**  
 cQ QUARTZ-FELDSPAR PORPHYRY  
**CRETACEOUS**  
 bld BOLDY BATHOLITH, RAFT BATHOLITH, AND RELATED ROCKS  
 kg GRANITE AND GRANODIORITE  
**AGE UNKNOWN**  
 di FOLIATED DIORITE, QUARTZ DIORITE, AND GABBRO  
 ub SERPENTINITE  
**LATE DEVONIAN**  
 dgn GRANITE AND GRANODIORITE ORTHOGNEISS; Dgn INCLUDES SILLIMANITE-BEARING PARAGNEISS

**SYMBOLS**  
 GEOLOGICAL CONTACT: DEFINED, APPROXIMATE, ASSUMED  
 BEDDING, TOP KNOWN: INCLINED, OVERTURNED  
 BEDDING, TOP UNKNOWN: HORIZONTAL, INCLINED, VERTICAL  
 FACING DIRECTION OF FOLIATED BASALT: INCLINED, OVERTURNED  
 SYMMETAMORPHIC SLIP CLEAVAGE, SCHISTOSITY, OR GNEISSOSITY: HORIZONTAL, INCLINED, VERTICAL  
 MINERAL LINATION  
 POSTMETAMORPHIC CRENULATION CLEAVAGE: INCLINED, VERTICAL  
 CRENULATION LINATION  
 MESOSCOPIC FOLD AXIS: SYMMETAMORPHIC, POSTMETAMORPHIC, LATE KINK  
 AXIAL TRACE OF SYMMETAMORPHIC FOLD: OVERTURNED ANTICLINE, OVERTURNED SYNCLINE, ESTABLISHED, INFERRED  
 AXIAL TRACE OF POSTMETAMORPHIC FOLD: ANTIFORM, SYNFORM  
 LATER (BY OR POSTMETAMORPHISM) WEST TO SOUTHWESTERLY DIRECTED THRUST FAULT; TEETH ON UPPER PLATE: DEFINED, APPROXIMATE, ASSUMED  
 EARLY (PRE FOLDING AND METAMORPHISM) EASTERLY DIRECTED THRUST FAULT; TEETH ON UPPER PLATE: DEFINED, APPROXIMATE, ASSUMED  
 FAULT: DOT ON DOWNTHROWN SIDE, ARROWS INDICATE SENSE OF STRIKE SLIP MOVEMENT: DEFINED, APPROXIMATE, ASSUMED  
 CONDUCTOR FOSSIL LOCALITY: MISSISSIPPIAN, PENNSYLVANIAN, PERMIAN  
 LOCATION OF RADIOMETRICALLY DATED SAMPLE: PBU ON ZIRCONS AND PPS ON WHOLE ROCK; INDICATE A DEVONIAN AGE FOR UNIT EBA AND FOR UNIT IFb  
 MINERAL OCCURRENCE  
 LIMIT OF GEOLOGICAL MAPPING OR OUTCROP  
 LINE OF GEOLOGICAL CROSS-SECTION  
 TOPOGRAPHICAL CONTOUR (200-METRE INTERVAL)