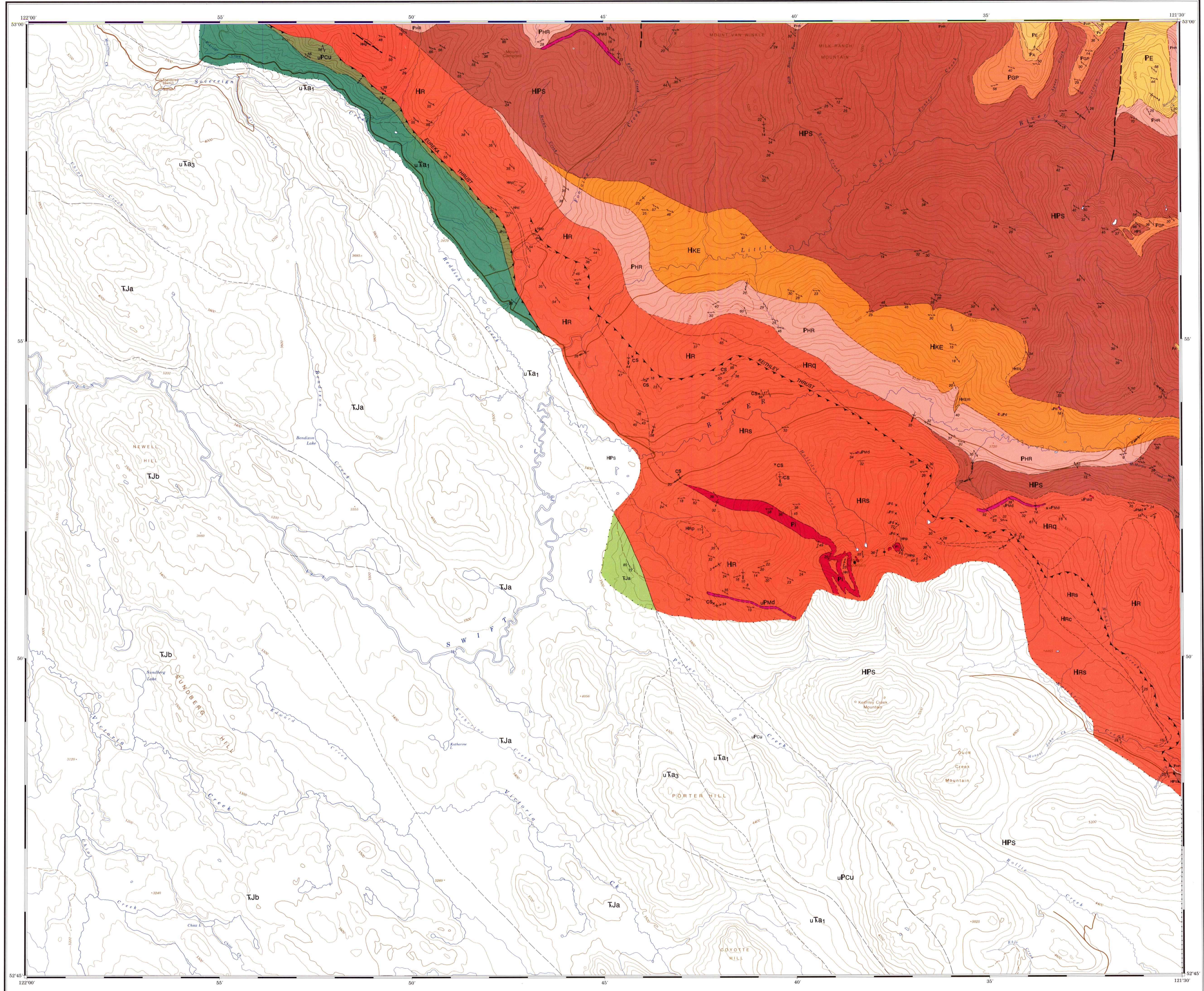


LEGEND

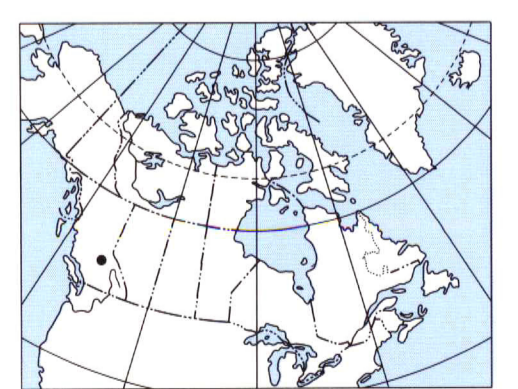
This legend is common to maps 1635A, 1636A, 1637A, 1638A.
Coloured legend blocks indicate map units that appear on this map

- OVERLAP ASSEMBLAGES**
- TERTIARY**
TI Lamprophyre
- JURASSIC AND CRETACEOUS**
JKLR LITTLE RIVER STOCK: granodiorite and quartz monzonite
- PERMIAN OR YOUNGER**
Pp Quartz porphyry rhyolite
- QUESNEL TERRANE**
- TRIASSIC AND JURASSIC NORIAN AND (?) YOUNGER**
QUESNEL RIVER GROUP (uTa, uTb)
TJb Argillite porphyry basalt breccia, minor flows, tuff and tuffaceous argillite; local andesitic basalt
- TJa Basaltic tuff and breccia, generally fine grained; argillite, flows, chert
- UPPER TRIASSIC KATVIAN AND (?) NORIAN**
uTa1 Phyllite, argillite, slaty argillite, quartzite, schist, minor greenstone (subgreenschist to amphibolite (kyanite) facies of metamorphism); uTa1g conglomerate
- uTa3 Undivided uTa and greenstone, argillite-porphyr breccia, tuff breccia, tuff, possible dykes and sills (subgreenschist and greenschist facies of metamorphism)
- SLIDE MOUNTAIN TERRANE**
- UPPER PALEOZOIC MISSISSIPPIAN TO PERMIAN**
uPa SLIDE MOUNTAIN GROUP (PMb-uPa)
ANTLER FORMATION: pillow basalt, breccia, diorite, chert, greywacke, (minor limestone); uPa, sepiolite, uPa s, chert, minor basalt and diorite
- uPc CROOKED AMPHIBOLITE: undifferentiated; uPc, serpentinite and sheared ultramafic rock; uPc1, talcose altered ultramafic rock; uPc, amphibolite
- PALEOZOIC OR MESOZOIC**
PMJb Serpentinite and peridotite (as mapped by Campbell, 1978)
- BARKERVILLE TERRANE**
- LOWER PERMIAN**
Ps Sugar limestone: grey crinoidal limestone, minor grey chert
- UPPER PALEOZOIC? SNOWSHOE GROUP (Pb-Pu)**
uPim ISLAND MOUNTAIN AMPHIBOLITE: amphibolite, minor siliceous mylonite
- uPsc Orange weathering fuchsite-bearing ankeritic carbonate
- uPm Handsrabble Mountain succession: black siltstone and phyllite, grey micaceous quartzite, limestone, minor metatuff; uPm, greywacke, muddy conglomerate
- PALEOZOIC?**
Pb Bralco succession: marble
- Pi Foliated diorite and augite porphyry basalt, gabbroic rocks; includes undifferentiated diabase, diorite
- PALEOZOIC QUESNEL LAKE GNEISS**
POL Light grey potassium feldspar porphyritic granitic orthogneiss
- PALEOZOIC SNOWSHOE GROUP (Hr-Pe)**
PE Eaglesnest succession: olive and grey micaceous quartzite and phyllite
- PD Downey succession: olive and grey micaceous quartzite and phyllite, and undifferentiated rocks; Pta, amphibolite; includes some marble, quartzite and schist; Pcc, marble, includes some phyllite, schist, quartzite and amphibolite; Ppp, phyllite, schist, metatuff; includes some marble, quartzite and amphibolite; Pmv, metatuff, metadiorite, includes some marble, phyllite, schist and amphibolite; (metamorphism ranges from chlorite to kyanite grade)
- PA Agnes succession: quartzite clast conglomerate, quartzite, minor limy conglomerate
- PGP Goose Peak succession: quartzite, minor conglomerate
- PHR Harvey's Ridge succession: dark grey and grey micaceous quartzite, black quartzite and interbedded dark grey phyllite, schist, siltite, and minor micritic limestone and undifferentiated rocks; Pm, limestone and limestone conglomerate; Pm, purple grey very micaceous quartzite and black phyllite; Pm, grey slate and green metatuff, in part calcareous
- HADRYNIAN OR PALEOZOIC**
HPT Tom succession: olive grey micaceous quartzite, phyllite and schist
- HADRYNIAN?**
HKE Kethley succession: grey and olive, fine micaceous quartzite and phyllite, minor marble; Hkc, marble, phyllite; Hkp, grey and green phyllite, minor olive quartzite; Hkq, white to dark grey quartzite
- HKK Kee Khan marble: marble, calcareous sandstone, micaceous quartzite, green and grey phyllite, in part calcareous
- HT Tregillus succession: grey and olive-grey micaceous quartzite, phyllite and schist, undifferentiated Htg, conglomerate
- HR Ramos succession: olive and olive grey micaceous quartzite, and phyllite; light brown and grey sandstone and undifferentiated rocks; Hrs, phyllite, schist, quartzite, calc-silicate rocks, may be partly equivalent to Hrc; Hrc, limestone, calcareous quartzite; Hnc, black siltite, phyllite and slate, may be partly equivalent to Pm; Hnq, olive and grey slate and micaceous quartzite, may be part of Hke
- HPS Snowshoe Group undifferentiated: Hs to PE, mainly Pm to PE
- PERMIAN AND/OR TRIASSIC**
PTs Olive and grey greywacke and slate
- PENNSYLVANIAN**
Pc Grey fusulinid and pelletal limestone
- MIDDLE PENNSYLVANIAN**
PAA ALEX ALLAN FORMATION: black micritic limestone, grey and black shale
- ORDOVICIAN TO MISSISSIPPIAN MISSISSIPPIAN OR YOUNGER**
BLACK STUART GROUP (SDs-Mes)
MBS Sandstone unit: olive grey micaceous and white quartzite, black and pink chert
- LOWER MISSISSIPPIAN**
MG GREENBERRY FORMATION: crinoidal limestone, chert, dolostone
- UPPER DEVONIAN AND LOWER MISSISSIPPIAN**
DMg GUYET FORMATION: muddy and sandy conglomerate and breccia, granule quartzite and slate
- MIDDLE AND/OR UPPER DEVONIAN**
DW WAVERLY FORMATION: schistose, calcareous, basaltic tuff, and volcanoclastic, pillow basalt, minor siltite
- UPPER ORDOVICIAN AND DEVONIAN TO MISSISSIPPIAN OR YOUNGER**
OMBS Black pelite unit: black slate, argillite and cherty argillite, black limestone, dolostone and siltified limestone (in part amphipora)
- UPPER SILURIAN AND LOWER DEVONIAN**
SDBS Chert-carbonate unit: light to dark grey chert breccia, grey limestone matrix, dolostone granule to pebble breccia, limestone matrix, chert-quartz-dolostone conglomerate to breccia
- CAMBRIAN TO (?) DEVONIAN**
CDBS Black Stuart formation (as used by Campbell, 1978)
- HADRYNIAN AND CAMBRIAN LOWER TO (?) UPPER CAMBRIAN CARIBOO GROUP (H-Co)**
CDC DOME CREEK FORMATION: dark shale and limy shale
- LOWER CAMBRIAN**
ICM MURAL FORMATION: grey limestone, minor shale and argillite
- HADRYNIAN AND/OR CAMBRIAN**
HCM MIDAS FORMATION: dark siltstone and quartzite, minor shale and argillite
- Hcyp YANKS PEAK FORMATION: grey and white, minor pink and green quartzite, minor siltstone and argillite
- Hcu MIDAS, YANKS PEAK AND YANKEE BELLE FORMATIONS: undivided
- HADRYNIAN (WINDERMERE)**
HYB YANKEE BELLE FORMATION: green and grey thin bedded argillite, shale, minor quartzite and limestone; local phyllite and schist
- HC CUNNINGHAM FORMATION: grey limestone, minor shale, argillite and dolostone
- Hi ISAAC FORMATION: dark phyllite, calcareous phyllite, slate, argillite, and minor limestone and micaceous quartzite
- HCCu Cariboo Group undifferentiated
- HADRYNIAN**
HK KAZA GROUP
- IGNEOUS ROCKS OF UNKNOWN TERRANE AFFINITY**
uPMg Diabase, diorite
- Calo-silicate rocks (isolated outcrops) CS x
Geological boundary (defined, approximate, assumed) - - - - -
Bedding, tops known (inclined, overturned) / / / / /
Bedding, tops unknown (inclined, vertical) / / / / /
Bedding parallel to cleavage (inclined, overturned) / / / / /
Cleavage, first generation (horizontal, inclined, vertical) + + + + +
Cleavage, second generation (inclined, vertical) + + + + +
Fault (defined, approximate, assumed) solid circle indicates downthrow side
Thrust fault (defined, approximate or assumed) hanging wall teeth - - - - -
Anticline (upright, overturned) arrow indicates plunge ^ ^ ^ ^ ^
Syncline (upright, overturned) arrow indicates plunge v v v v v
Antiform ^ ^ ^ ^ ^
Minor fold axes (first generation, horizontal, second generation, horizontal) - - - - -
Pebble long axis, average u-end and plunge - - - - -
Fan axis - - - - -
Fossil locality (f) (f) (f) (f) (f)
Garnet isograd (half moon on higher grade side) (M) (M) (M) (M) (M)
Border of detailed geology as mapped by Struik, reconnaissance geology beyond the border is from the McBride map area (Campbell, Mountain and Young, 1973) and the Quesnel Lake map area (Campbell, 1978) - - - - -



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1976. Quesnel Lake (93A) map area. Geological Survey of Canada, Open File 574.
- Campbell, R.B., Mountain, E.W. and Young, F.G.
1973. Geology of McBride map area, British Columbia. Geological Survey of Canada, Paper 72-35.
- Recommended citation:
Struik, L.C.
1988. Geology, Swift River, Cariboo Land District, British Columbia. Geological Survey of Canada, Map 1637A, scale 1:50 000



Geology by L.C. Struik, 1977-1982

Geological cartography by D.G. Brown, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Surveys and Mapping Branch in 1976. Roads were revised by the Geological Survey of Canada for this edition

MAP 1637A
GEOLOGY
SWIFT RIVER
CARIBOO LAND DISTRICT
BRITISH COLUMBIA

Scale 1:50 000 - Echelle 1/50 000

Kilometres 0 1 2 3 4

Projection Transverse Mercator
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Approximate magnetic declination 1986, 23°01' East, decreasing 14.8 annually.

Elevations in feet above mean sea level

9308	9316	9318	9317
9301	9314	9315	9312
92816	92813	93014	93015
9309	93012	93011	93010

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

SWIFT RIVER
CARIBOO LAND DISTRICT
BRITISH COLUMBIA