



RESOURCE DEVELOPMENT AND GEOSCIENCE BRANCH
Petroleum Geology Open File 2009-4
Preliminary Geology of the Jones Peak Area
(NTS 94B/2 and 7)
(TRIM BCGS 94B.15-18, 25-28, 35-38)
 Filippo Ferri
 Scale: 1:50 000

Geological data collected by Filippo Ferri, Duncan McLeish and Keegan Rames (2008).
 Digital cartography by Mike Fournier and Filippo Ferri
 Digital base map compiled by the Province of British Columbia, Ministry of Agriculture and Lands, modified by the Geoscience Branch
 Universal Transverse Mercator Projection, Zone 10, Five thousand metre grid.
 North American Datum 1983.
 Magnetic declination is 20° 30' East at the centre of the map area, decreasing 13.5 annually.
 Grid north is 0° 12' East of true north.
 Contour interval is 20 metres. Elevation in metres above mean sea level.

- MESOZOIC**
- Early Cretaceous**
- Bullhead Group**
- Aptian to Alban**
- Cething Formation**
 Marine and non-marine, beige to grey-brown, fine grained chert-quartz sandstone; minor shale, siltstone, coal and conglomerate.
- Kg**
- Barremian to Aptian**
- Cadomin Formation**
 Non-marine, beige to brown, massive to thick bedded, coarse chert-quartz sandstone to granule or pebble conglomerate; minor coal and siltstone.
- Kcd**
- Minnes Group**
- Valanginian**
- Bickford Formation**
 Resective, thin layered, very fine to fine, chert-quartz sandstone, siltstone and mudstone.
- Kbi**
- Monach Formation**
 Thick bedded, white to creamy white weathering, grey, medium to coarse grained, feldspar-chert-quartz sandstone; minor beige to grey brown siltstone, mudstone and granule conglomerate.
- Km**
- Beattie Peaks Formation**
 Thinly inter-bedded, dark grey-brown siltstone and grey-brown weathering, grey to dark grey-brown micaceous, fine to medium grained chert-quartz sandstone.
- Kbp**
- Late Jurassic to Early Cretaceous (Tithonian to Berriasian)**
- Montooth Formation**
 Lower part: thin to thick bedded, micaceous, beige to brown weathering, dark grey-brown to brown, chert-quartz sandstone; minor siltstone and coaly partings. Middle part: Thinly inter-layered siltstone and fine sandstone. Upper most part: Thick bedded, white to creamy white weathering, grey, medium to coarse grained, feldspar-chert-quartz sandstone; minor beige to grey brown siltstone, mudstone and granule conglomerate.
- Jkmh**
- Minnes Group, undivided**
- Jkm**
- Early to Late Jurassic (Hettangian? To Tithonian?)**
- Fernie Formation**
 Lower part: crumbly to blocky, dark grey brown shale and siltstone. Middle to upper part: inter-bedded siltstone and light grey to beige weathering, medium to dark grey-brown, thin to thick bedded, fine to medium or coarse grained mica-chert-quartz sandstones; locally bioturbated. Sandstone increases in abundance up section.
- Jf**
- Triassic**
- Late Triassic (Norian to Rhaetian?)**
- Pardonet Formation**
 Thin to thick bedded, grey to dark grey or dark grey-brown, carbonaceous lime mudstone to dolomitic lime mudstone, silty lime mudstone and minor shale; crinoidal grainstone to wackstone; locally contains abundant Monotis, Favosites and Ecomonotis remains.
- Trp**
- Late Triassic (Carnian)**
- Baldonnel Formation**
 Field, medium to thick bedded or massive, grey or grey-brown, lime mudstone to skeletal packstone; locally dolomitic; minor silty limestone and pale to medium grey calcareous quartz sandstone. Locally contains calcite rimmed vugs and dark grey to black chert nodules.
- Trb**
- Late Triassic (Carnian)**
- Pardonet and Baldonnel Formations, undivided**
- Trbtp**
- Charlie Lake Formation**
 Medium to thick bedded or massive, pale to medium grey sandy dolomite to dolomitic sandstone; medium grey laminated to crinkly dolomite; minor poorly consolidated, cross-bedded beige to yellow-brown sandstone; dolomitic breccia.
- Trcl**
- Middle to Late Triassic (Ladinian to Carnian)**
- Liard Formation**
 Medium to thick bedded, beige to grey weathering, grey, calcareous to dolomitic sandstone. Massive to cross-bedded. Locally characterized by wavy thinly inter-bedded beige weathering calcareous sandstone and grey weathering calcareous sandstone to sandy limestone; dolomitic skeletal packstone to wackstone; minor dark grey siltstone. Sandstone increases in abundance up section.
- Trl**
- Early to Middle Triassic (Induan to Ladinian)**
- Toad and Grayling Formations**
 Thin to medium inter-bedded dark grey to grey-brown, calcareous to dolomitic siltstone, shale and very fine sandstone; minor limestone. Sandstone increases in abundance up section.
- Trtg**
- PALEOZOIC**
- Early Permian**
- Fantasia Formation**
 Grey to dark grey, medium to thick bedded or massive, mottled chert; minor argillaceous chert.
- Pf**
- Mississippian to Pennsylvanian**
- Stoddart Group and Kindie Formation**
 Grey calcareous quartz sandstone, dark grey argillaceous lime mudstone, grey-brown chert. Upper part (Kindie Formation?); dark grey to blue grey siliceous argillite.
- Csk**
- Mississippian to Permian**
- Stoddart Group, Kindie and Fantasia formations, undivided**
- Cskf**
- Early Mississippian**
- Prophet Formation**
 Massive to thick bedded, fossiliferous lime mudstone, grey to dark grey chert irregular chert nodules.
- Mp**
- Data point
 D Gas well (abandoned, suspended)
 --- Geological boundary (approximate, assumed)
 - - - Fault (thrust, other)
 Bedding, upright (inclined, horizontal)
 Bedding, tops unknown (inclined, horizontal)
 Anticline (trace of axial surface)
 Syncline (trace of axial surface)
 Monocline (trace of hinge line, arrow pointing to limb)
 Line of structural cross-section
 Mapping limit

Schematic cross-sections

