

LEGEND

QUESNEL LAKE (93-A) MAP- AREA

- QUATERNARY
- RECENT
- Rv** Olivine basalt blocky flows; **Rv**, related cinder cones; ultrabasic nodules common
- PLEISTOCENE AND RECENT
- Qol** Glacial deposits, till, gravel, sand, silt; alluvium: few scattered unmapped outcrops
- Qv** Olivine basalt flows and breccia; **Qv**, related volcanic cones including basalt flows, breccia and cinder; ultrabasic nodules common
- TERTIARY AND QUATERNARY
- PLIOCENE AND/OR PLEISTOCENE
- TQvc** Olivine basalt volcanic cones; flows and cinder; **TQvc**, basaltic breccia, minor flows; ultrabasic nodules common
- TERTIARY
- MIOCENE AND PLEISTOCENE
- uTva** Plateau basalt; olivine basalt, feldspar porphyry basalt, minor breccia, conglomerate and sandstone; **uTva**, areas underlain by plateau basalt, few scattered unmapped outcrops; **uTva**, coarse feldspar porphyry, may be older intrusions
- uTs** Shale, sandstone (mainly Miocene)
- Eocene AND (?) OLIGOCENE
- ImTv** KANLOOPS GROUP (**ImTv** and **ImTs**) Basaltic, andesitic, and dacitic breccia and flows, minor shale, sandstone and conglomerate; may include small areas of younger volcanics. **ImTv**, areas of few scattered unmapped outcrops of **ImTv** and **ImTs** undivided
- ImTs** Shale, sandstone, tuff, conglomerate

QUESNEL and OMINECA BELTS

PINCHI BELT

- CRETACEOUS AND (?) TERTIARY
- KTs** Conglomerate, sandstone, shale
- JURASSIC
- LOWER AND (?) MIDDLE JURASSIC
PLEINSBACHIAN TO (?) BAJOCCIAN
- ImJs** Conglomerate (local granitic clasts), greywacke, shale

- CRETACEOUS AND (?) TERTIARY
- KTs** Conglomerate, sandstone, shale
- JURASSIC AND CRETACEOUS
- JKg** Granodiorite, quartz monzonite, quartz diorite
- JKns** Nepheline syenite, syenite
- QUESNEL RIVER GROUP (**uKa** to **ImJs**)
- JURASSIC
- LOWER AND (?) MIDDLE JURASSIC
PLEINSBACHIAN TO (?) BAJOCCIAN
- ImJs** Conglomerate (local granitic clasts), greywacke, shale
- TRIASSIC AND JURASSIC
- UPPER TRIASSIC AND LOWER JURASSIC
- uJi** Syenite, monzonite, diorite; sub-volcanic intrusive phases, probably mainly lower Jurassic
- NORIAN TO SINEMURIAN
- uJd** Purple or maroon, minor grey and green basaltic and felsitic breccia, minor flows, tuff, sandstone and limestone; **uJd**, purple and maroon basalt with analcrite phenocrysts
- NORIAN AND (?) HETTANGIAN
- uJc** Green and purple conglomerate and sandstone
- NORIAN AND (?) YOUNGER
- uJb** Augite porphyry basalt breccia, minor flows, tuff and tuffaceous argillite; local andesitic basalt
- uJa** Basaltic tuff and breccia, generally fine-grained; argillite, flows, chert

- uJg** TAKOWANE BATHOLITH: granodiorite, quartz monzonite, quartz diorite
- uJsd** Syenodiorite, syenite, diorite

OMINECA BELT

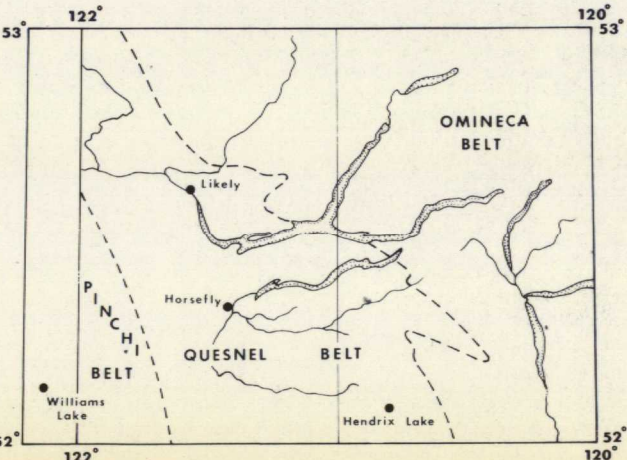
- JURASSIC (?), CRETACEOUS AND/OR TERTIARY
- KTg** Muscovite - biotite granite and quartz monzonite
- JURASSIC AND (?) CRETACEOUS
- JKg** Granodiorite, quartz monzonite, quartz diorite, minor diorite
- PALEOZOIC OR MESOZOIC
- PMub** Serpentine, peridotite; may be pre **PPab**
- REDFERN COMPLEX (**PMub**, **PMga** and **PMra**)
(may be equivalent to **PMub** and **PPab**)
- PMRa** Amphibolite
- PMRga** Gabbro, norite
- PMRub** Serpentine, pyroxenite, peridotite

- CACHE CREEK GROUP (**PPub** to **Ps**)
- PERMIAN AND (?) OLDER
- Ps** Grey limestone, minor greenstone chert and argillite
- PENNSYLVANIAN AND/OR PERMIAN
- PPsv** Argillite, chert, greenstone; minor limestone and serpentinite
- PPub** Serpentine

- PENNSYLVANIAN, (?) PERMIAN AND (?) YOUNGER
- SLIDE MOUNTAIN GROUP (**PPAu** and **DMa**)
- PPAu** ANTWERP FORMATION: pillow basalt, breccia, chert greywacke, minor limestone. **PPAu**, amphibolite; probably equivalent to **PPAu**
- DEVONIAN AND MISSISSIPPIAN
- DMG** GUYET FORMATION: conglomerate, greywacke, minor basalt; **DMG**, GREENBERRY MEMBER, grey limestone
- CAMBRIAN TO (?) DEVONIAN
- uDBC** BLACK STUART FORMATION: argillite, slate, dark platy limestone, greywacke; **uDBC**, basal carbonate, breccia, chert, sandy limestone
- CAMBRIAN
- LOWER TO (?) UPPER CAMBRIAN
- CARIBOO GROUP (**Hc** to **uEc**)
- uEc** DOME CREEK FORMATION: dark shale and limy shale
- LOWER CAMBRIAN
- uEmu** MURAL FORMATION: grey limestone, minor shale and argillite; **uEmu**, may include minor older and younger units
- HADRYNIAN AND/OR CAMBRIAN
- uEmi** MIDAS FORMATION: not equivalent to **HPM**: dark siltstone and quartzite, minor shale and argillite
- uEyp** YANKS PEAK FORMATION: grey and white, minor pink and green quartzite, minor siltstone and argillite; **uEyp**, undivided **uEyp** and **uEys**
- uEcm** Undivided MURAL (**uEmu**) and CUNNINGHAM FORMATIONS (**HC**)
- HADRYNIAN (WINDERMERE)
- uHyb** YANKS BELLE FORMATION: green and grey thin bedded argillite, shale, minor quartzite and limestone; local phyllite and schist; **uHyb**, undivided **uHyb** and **uHys**
- uHl** CUNNINGHAM FORMATION: grey limestone, minor shale and argillite
- uHi** ISAAC FORMATION: dark phyllite, slate, argillite and minor limestone
- uHk** KAZA GROUP Greywacke, argillite, phyllite, schist, minor pebble conglomerate; **uHk**, carbonate
- ARCHAEO (?) TO PALEOZOIC
- APgn** QUESNEL LAKE GNEISS: quartz - feldspar augen gneiss, granodiorite gneiss, local line - silicate gneiss

- HPs** SNOWSHOE FORMATION: may be equivalent to BLACK STUART and GUYET FORMATIONS and (?) younger units; may include or be equivalent to KAZA GROUP: quartzite, meta - greywacke, phyllite, schist, minor limestone
- HPM** "MIDAS FORMATION", not equivalent to **uEmi**: may be equivalent to BLACK STUART or to ISAAC FORMATION: chert, phyllite, argillite, limestone minor siltstone
- HPsm** SNOWSHOE FORMATION: may include **HPM** undivided: phyllite, schist and gneiss in amphibolite facies of metamorphism. **HPsm**: marble (shown in solid black where thin); **HPsm**: gneissose granitoid layers of uncertain origin
- HPkc** KAZA and CARIBOO GROUPS undivided. Highly deformed amphibolite facies metamorphic rocks; may include some younger units: **HPkcc**, Kaza or Cariboo Group undivided

- PPgn** SHUSWAP METAMORPHIC COMPLEX Upper amphibolite (sillimanite) facies metamorphism: gneiss, schist, marble, pegmatite, unseparated granitoid and granitoid gneiss phases. Includes KAZA and CARIBOO GROUPS, and the SNOWSHOE FORMATION, and possibly younger rocks; probably includes older rocks of uncertain equivalence. **PPgn**, marble, shown solid black where thin



- Glacier
- Geological contact (defined, approximate or assumed, covered)
- Contact of Shuswap Metamorphic Complex (coincides with sillimanite isograd)
- Fault (defined, approximate or assumed, covered by water)
- Bedding (horizontal, inclined, vertical, overturned; tops not indicated)
- Foliation: cleavage, schistosity, omicose layering (inclined, vertical)
- Anticlinal axis (fold upright, overturned)
- Synclinal axis (fold upright, overturned)
- Antiformal axis
- Fossil locality
- Mine

Geology by R.B. Campbell, 1959-1963, 1969
Compiled by R.B. Campbell from published and unpublished sources, 1978

O.F. 574

\$ 1.00