PRELIMINARY SERIES

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MAP 17-1964
PAPER 64-48
GEOLOGY

# BLUE RIVER ULTRAMAFIC INTRUSION

CASSIAR DISTRICT

BRITISH COLUMBIA

Scale 1:15,840
1 inch to ¼ mile

Feet 0 1000 2000 3000 4000 5000 Feet
Mile 0 ¼ ½ ¾ 1 Mile

## LEGEND

CENOZOIC

PLEISTOCENE AND RECENT
15 Glacial till, cemented gravel, glacio-fluvial and fluvial sands, silts and clays, felsenmeer, talus

MESOZOIC

CRETACEOUS(?)
14 CASSIAR BATHOLITH: granite, granodiorite, quartz monzonite, aplite, pegmatite

UPPER PALAEOZOIC OR LOWER MESOZOIC

BLUE RIVER INTRUSION
13 Rodingite
12 Diorite, diabasic gabbro
11 Talc bearing dunite
10 Amphibole bearing dunite and peridotite
9 Amphibole bearing 'regenerated' dunite
8 'Regenerated' dunite
7 Undivided dunite and peridotite. Dn - mainly dunite; Pd - mainly peridotite
6 Serpentinite

PALAEOZOIC

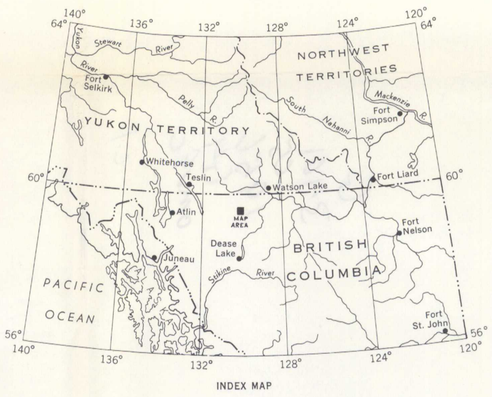
MIDDLE OR UPPER PERMIAN
5 Limestone, sandy limestone; 5a, basalt and andesite not lithologically separable from unit 3

DEVONIAN AND MISSISSIPPIAN
UPPER DEVONIAN AND LATER
SYLVESTER GROUP
3 Volcanic rocks; andesite, basalt, minor sedimentary rocks of unit 2
4 Amphibole; derived from 3
2 Argillite, siltstone, chert, shale, minor volcanic rocks of unit 3

SILURIAN AND DEVONIAN
McDAME GROUP AND OLDER
1 Limestone, dolomite

Geological boundary (defined, assumed; arrow indicates direction of dip)
Bedding, tops unknown (inclined, vertical, dip unknown)
Primary and secondary banded structures in ultramafic rocks (inclined, vertical)
Generalized trend of primary igneous layering
Schistosity and gneissosity (inclined, vertical)
Fault (defined, assumed; arrow indicates direction of dip)
Syncline
Fossil locality (F)
Potassium-Argon age (A)
Mineral occurrence (molybdenum - Mo; chromium - Cr; pyrrhotite - po) Cr ×

Geology by W. J. Wolfe, 1962

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Contours (interval 100 feet)

Cartography by W. J. Wolfe, 1962
Base-map compiled by the Surveys and Mapping Branch

Approximate magnetic declination, 31° 17' East decreasing 3.7' annually

Geographical names subject to revision





SECTION ALONG LINE A - B




SECTION ALONG LINE C - D - E

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