

LEGEND

- QUATERNARY**
PLEISTOCENE AND RECENT
28 Unconsolidated glacial, fluvioglacial, and alluvial deposits
- TERTIARY (?) AND QUATERNARY**
27 TUYA FORMATION: lava, tuff, agglomerate; 27a, recent volcanic vent
- CRETACEOUS**
UPPER CRETACEOUS
26 GLUNDEBERY BATHOLITH: miarolitic hornblende granite, granite porphyry, apfite, pegmatite, syenite; 26a, abundant dioritic inclusions
25 25A. TUYA BATHOLITH
25B. PARALLEL CREEK BATHOLITH: biotite granite and quartz monzonite; 25Ba, abundant inclusions and screens of schist
24 KLINKIT BATHOLITH: foliated biotite quartz monzonite
- MID-CRETACEOUS
23 CASSIAR BATHOLITH: biotite quartz monzonite, granodiorite; 23a, muscovite quartz monzonite; 23b, contains abundant inclusions and screens of schist; in part gneissic
- JURASSIC**
LOWER (?) AND MIDDLE (?) JURASSIC
22 22A. SIMPSON PEAK BATHOLITH
22B. NOME LAKE BATHOLITH: biotite-hornblende granodiorite and quartz monzonite; 22Ba, hornblende monzonite
21 CHRISTMAS CREEK BATHOLITH: hornblende quartz diorite, granodiorite, minor diorite and quartz monzonite; 21a, biotite-hornblende granodiorite, unaltered, probably younger than 21; 21b, hornblende quartz diorite, biotite-hornblende quartz diorite and granodiorite; 21c, gabbro
20 CHARLIE COLE STOCK: foliated quartz diorite
19 PLATE CREEK STOCK: biotite-hornblende quartz diorite, diorite, gabbro, granodiorite; 19a, hornblende diorite and quartz diorite, mesocratic to melanocratic; biotite-hornblende quartz monzonite and monzonite
- JURASSIC (?)
LOWER JURASSIC (?)
18 Feldspathic quartzite, greywacke, grit, argillite, slate
- TRIASSIC**
UPPER TRIASSIC
17 SHONOKTAW FORMATION: augite porphyry, agglomerate
16 NAZCHA FORMATION: volcanic conglomerate, tuff, feldspar porphyry, agglomerate, siltstone, hornfels
- PERMIAN**
15 Massive and banded greenstone, tuff, breccia, and pillowed lava, age relative to 13, and 14 unknown
14 TESLIN FORMATION: well-bedded and massive limestone, minor pillowed basalt
- CARBONIFEROUS (?) AND PERMIAN**
13 KEDAHDA FORMATION: chert, argillite, quartzite, hornfels, minor limestone and greenstone; 13a, limestone; 13b, greenstone
- CARBONIFEROUS (Mainly Pennsylvanian ?)**
12 undivided; 12a, chert, argillite, slate, quartzite, hornfels; 12b, limestone; 12c, limestone and dolomite, in part with chert nodules, at least in part Lower Pennsylvanian; 12d, chert, slate, argillite, conglomerate
- CARBONIFEROUS**
11 undivided; 11a, argillite and hornfels, generally massive; 11b, fine-grained, black limestone; 11c, granule, pebble and cobble conglomerate, quartzite; 11d, argillite and chert; 11e, crystalline, dark grey limestone; 11f, meta-tuff and tuff, massive green volcanics; 11g, chert-nodule, fossiliferous limestone, possibly correlative with 12c
10 OBLIQUE CREEK FORMATION: meta-chert, quartzite, hornfels, greenstone meta-diorite, schist, gneiss, granite sills and dykes; 10a, crystalline limestone
- CARBONIFEROUS (Mainly Mississippian ?)**
9 BIG SALMON COMPLEX: quartz-albite-mica gneiss, albite-actinolite schist, quartz-chlorite-epidote-albite gneiss, meta-chert, limestone, skarn, hornfels; 9a, dolomite; at least in part correlative with 7
- MISSISSIPPIAN (?) AND LATER**
8 Serpentine, peridotite, dunite; 8a, serpentinite, in part altered to talc and carbonate
- MISSISSIPPIAN (in part or entirely)**
7 SYLVESTER GROUP (upper part): massive greenstone, agglomerate; minor chert and meta-diorite, may locally include some 6
- DEVONIAN AND (?) MISSISSIPPIAN**
UPPER DEVONIAN (mainly or entirely ?)
6 SYLVESTER GROUP (lower part): slate, in part graphitic, argillite, chert, chert arenite, greywacke, pebble conglomerate, siltstone; 6a, limestone
MIDDLE DEVONIAN
5 McDAME GROUP: fetid dolomite and limestone
- SILURIAN AND DEVONIAN**
UPPER SILURIAN (?) AND LOWER (?) DEVONIAN
4 Undivided, locally includes 5 and/or older rocks
4A. Lower Division: sandy dolomite, dolomitic sandstone
4B. Upper Division: laminated, well-bedded dolomite
- ORDOVICIAN AND SILURIAN**
LOWER ORDOVICIAN (?), LOWER AND MIDDLE (?) SILURIAN
3 Black, graptolitic shale, platy siltstone, locally hornfelsed; includes uppermost part of Kechika Group
- CAMBRIAN AND (?) ORDOVICIAN**
2 KECHIKA GROUP: thin-bedded hornfels, skarn, calcareous pyllite, phyllitic limestone
- CAMBRIAN AND HADRYNIAN**
1 ATAN AND GOOD HOPE GROUPS, UNDIVIDED: cordierite-biotite hornfels, dolomite, limestone, skarn, quartzite; 1a, carbonate, age uncertain

- Limit of drift-covered area
- Geological boundary (defined, approximate or assumed)
- Bedding (inclined, vertical)
- Foliation, cleavage (inclined, vertical)
- Plunge of lineation, mainly fold axes (horizontal, inclined)
- Fault (defined, approximate, assumed) solid circle indicates downthrow side
- Thrust fault (teeth in direction of dip; defined, approximate)
- Anticline (defined, approximate) arrow indicates direction of plunge
- Syncline
- Drumlinoid ridge and glacial striae
- Fossil locality
- Mineral prospect or occurrence Ag X

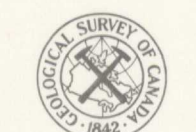
MINERALS

- Beryl by Molybdenum . Mo
Copper Cu Silver Ag
Fluorite F Tungsten W
Lead Pb Zinc Zn

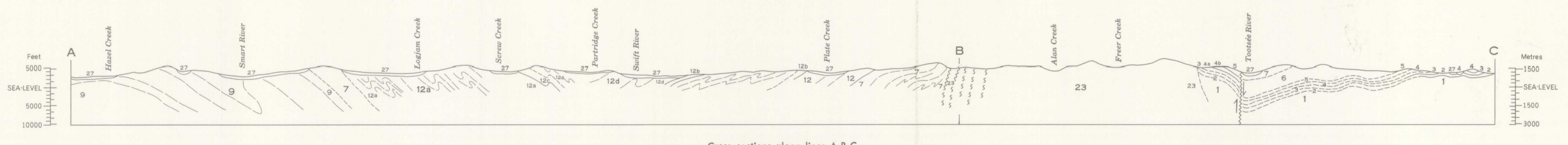
Geology by H. Gabrielse, 1965, 1966, 1967. Geology southwest of Jennings River, Parallel Creek, and Cottonwood River, with minor modifications and additions, from K. de P. Watson and W. H. Mathews, 1944

Geological cartography by the Geological Survey of Canada, 1969

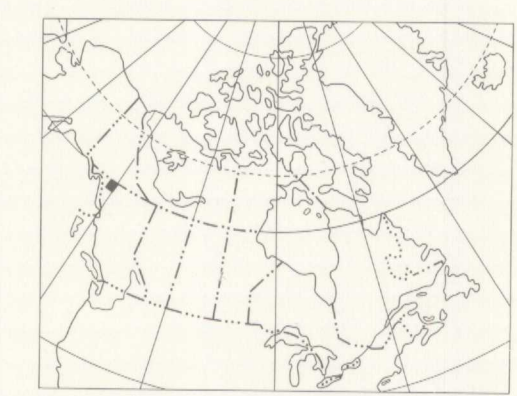
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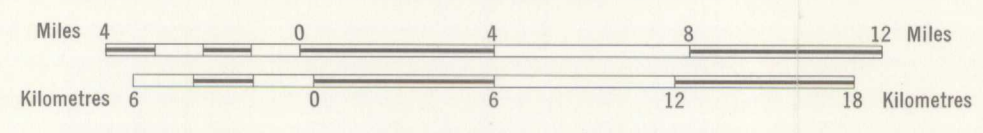
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



Published, 1969
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa



MAP 18-1968
PAPER 68-55
GEOLOGY
JENNINGS RIVER
BRITISH COLUMBIA
Scale 1:250,000



Base-map compiled and drawn by the Army Survey Establishment, R. C. E., 1952
Magnetic declination 1968 varies from 30° 25' easterly at centre of west edge to 30° 35' easterly at centre of east edge. Mean annual change, decreasing 4.5'

Elevations in feet above Mean Sea-Level

ESIC CIST
OCT 8 1966
Earth Sciences Sector / Secteur des sciences de la Terre

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JENNINGS RIVER
BRITISH COLUMBIA

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