



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

PRELIMINARY SERIES

82 M E

LEGEND

PALAEZOIC AND/OR MESOZOIC

PALAEZOIC

PROTEROZOIC

SELKIRK AND MONASHEE MOUNTAINS

10 PLEISTOCENE AND RECENT
Glacial drift, silt, alluvium; areas of little or no outcrops; 10a, alpine moraine; 10b, landslide or slump

9 POST LOWER CAMBRIAN
Granite rocks, undivided; 9a, biotite quartz monzonite; 9b, porphyritic biotite-hornblende quartz monzonite; 9c, mainly hornblende granodiorite

8 Nepheline syenite-gneiss

CAMBRIAN AND LATER

LOWER CAMBRIAN AND LATER

LARDEAU GROUP

5 Dark grey and black carbonaceous siliceous slate, phyllitic limestone, and quartzite; dark grey limy slate, rusty weathering buff slate; dark grey and rusty siliceous phyllonite and quartz muscovite-chlorite-plagioclase schist; light and dark grey limestone; greenstone and chlorite schist; 5a, crystalline schist and gneiss

CAMBRIAN

LOWER CAMBRIAN

4 BADSHOT FORMATION: light grey and dark grey limestone, buff and grey dolomite, silvery brown phyllite, grey and white quartzite; 4a, marble, amphibolite, calc-silicate rocks

2 HAMILL GROUP

Pale brown, grey, pale green quartzite; rusty brown, grey, and green slate and phyllite, minor buff- and brown-weathering limestone; 2a, feldspathic micaceous quartzite, quartz-mica schist, amphibolite; 2b, greenstone, locally amygdaloidal, greenstone-breccia

WINDERMERE

HORSETHIEF CREEK GROUP

1 Grey, buff, brown, and green slate; phyllitic feldspathic quartzite; quartz-sericite schist; 1a, grey, silvery brown and golden brown quartz-mica schist, mica schist, micaceous quartzite, speckled quartz-feldspar-biotite-gneiss, amphibolite, calc-silicate rocks, pegmatite (schists commonly contain garnet, kyanite, and sillimanite); 1b, marble, limestone; 1c, limy beds; 1d, amphibolite

SHUSWAP METAMORPHIC COMPLEX

H Ha, dunite; hb, biotite-hornblende pyroxenite

G Quartz-mica schist, micaceous quartzite, graphitic quartz-sericite schist, andalusite schist, minor apatite and pegmatite (may be part of Mount Ida Group)

F Granitic gneiss and abundant pegmatite, paragneiss; Fa, quartz-feldspar-biotite paragneiss, quartzite, marble calc-silicate rocks; Fb, migmatite complex composed of quartz-feldspar-biotite and paragneiss containing sillimanite, lined leucogranite, apatite, pegmatite; foliated hornblende-biotite granodiorite, granite-gneiss, amphibolite, calc-silicate rocks, nebulitic gneiss and schist; Fc, marble

E Quartz-biotite-feldspar paragneiss (commonly containing garnet and sillimanite), micaceous quartzite, amphibolite, calc-silicate rocks, all abundantly laced with pegmatite; Ea, marble, calc-silicate rocks

D Quartz-biotite-feldspar schist and paragneiss (commonly containing garnet, kyanite, and sillimanite), amphibolite, hornblende gneiss, quartzite, marble, calc-silicate rocks; minor pegmatite; Da, marble; Db, quartzite

C Swirled gneissic granite; minor biotite amphibolite

B More or less homogeneous biotite-hornblende granite-gneiss, locally garnetiferous, commonly veined; minor streaky gneiss

A Mixed gneiss varying in composition from foliated leucogranite, locally pegmatite, through biotite-hornblende granite- and granodiorite-gneiss, to quartz diorite-gneiss and amphibolite and variously occurring as banded gneiss, streaky gneiss, veined gneiss, wavy and folded gneiss

Glacier

Limestone, marble in thin beds

Geological boundary (defined, approximate or assumed)

Bedding, tops known (horizontal, inclined, vertical, overturned)

Bedding, tops unknown (inclined, vertical)

Schistosity, cleavage, gneissosity (horizontal, inclined, vertical)

Lamination (horizontal, inclined, vertical)

Fault (defined, approximate or assumed)

Anticline (defined, approximate)

Syncline (defined, approximate)

Anticline and syncline (overturned, arrow indicates direction of plunge)

Isograds

Mineral property

Placer property

ROCKY MOUNTAINS

10 PLEISTOCENE AND RECENT
Glacial drift, silt, alluvium; areas of little or no outcrops

7 CAMBRIAN
MIDDLE CAMBRIAN
CHANCELLOR FORMATION: thin-bedded grey and greyish brown limestone and argillaceous limestone, micaceous limestone

6 MIDDLE (?) CAMBRIAN
CANYON CREEK FORMATION: grey and black argillite and slate

3 LOWER CAMBRIAN
Grey and brownish quartzite, sericitic slate

MINERAL PROPERTIES

Lead-zinc	Copper	Asbestos
1. Kinbasket	11. Montgomery	17. Monarch
2. Radlock Creek	12. Standard	18. West Columbia
3. Cottonbelt	13. Stanmack (Ole Bull)	19. McCulloch Creek
4. River Jordan	14. Roseberry	20. Graham Creek
5. Mastodon	15. Sterling	
6. Lead King	16. Hard Pan	
7. Little Slide		
8. J and L		
9. A and E		
10. Keystone		

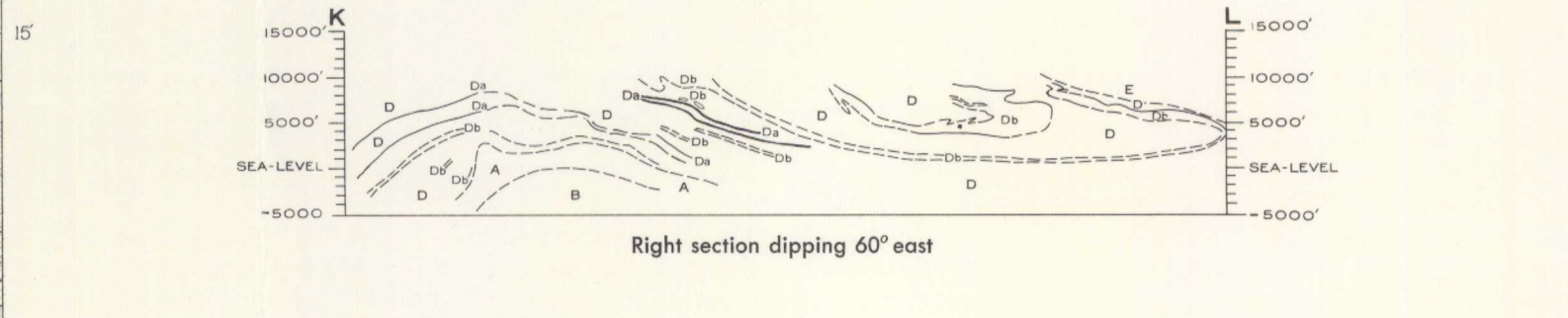
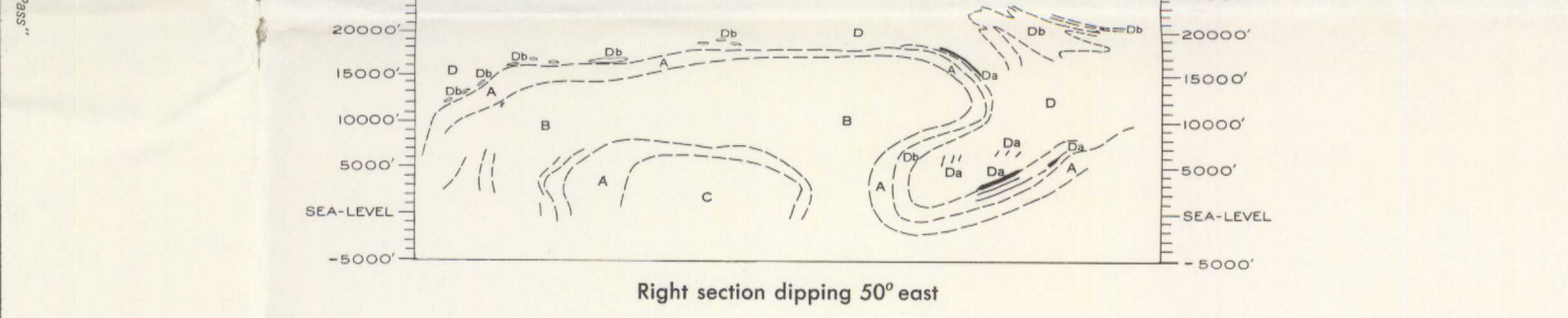
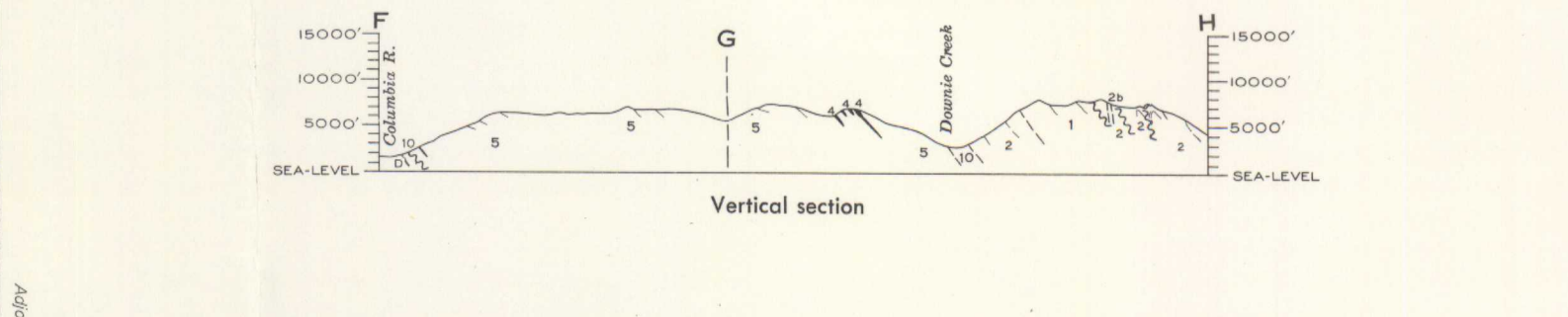
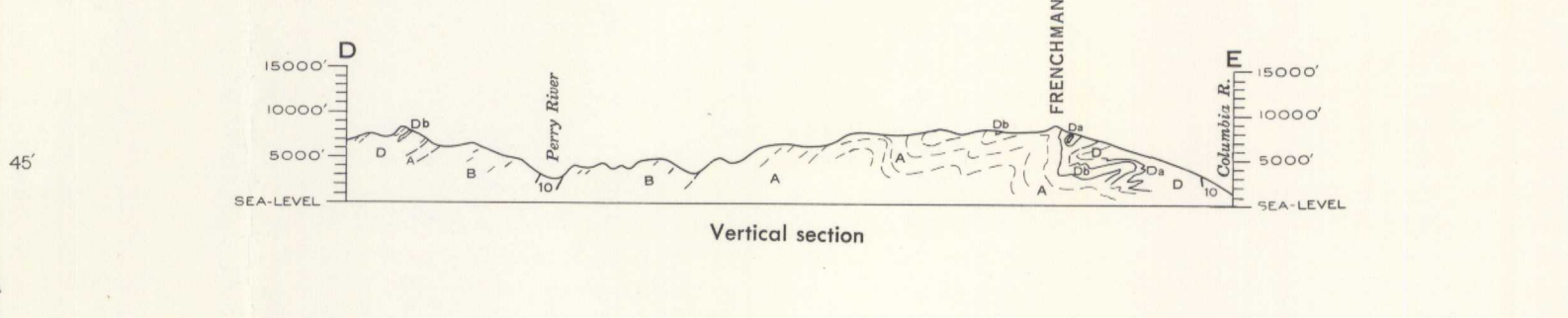
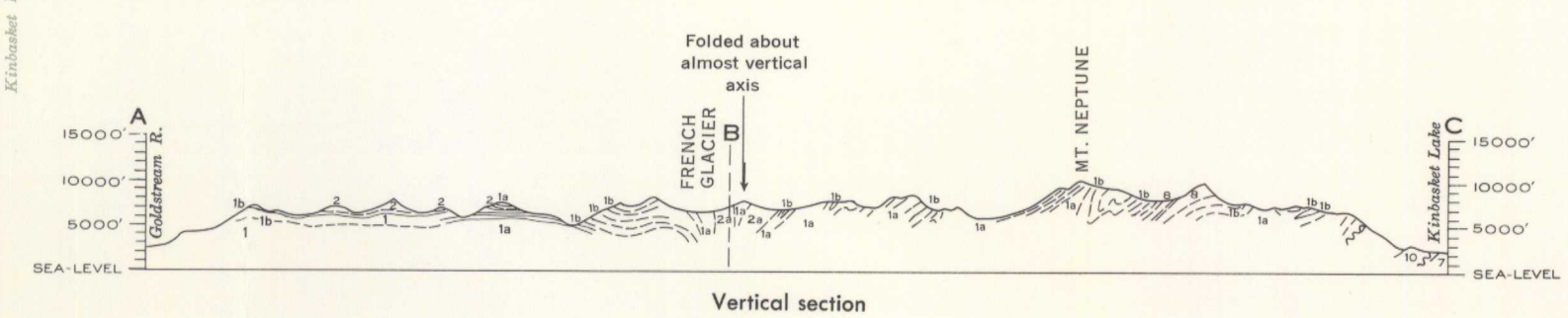
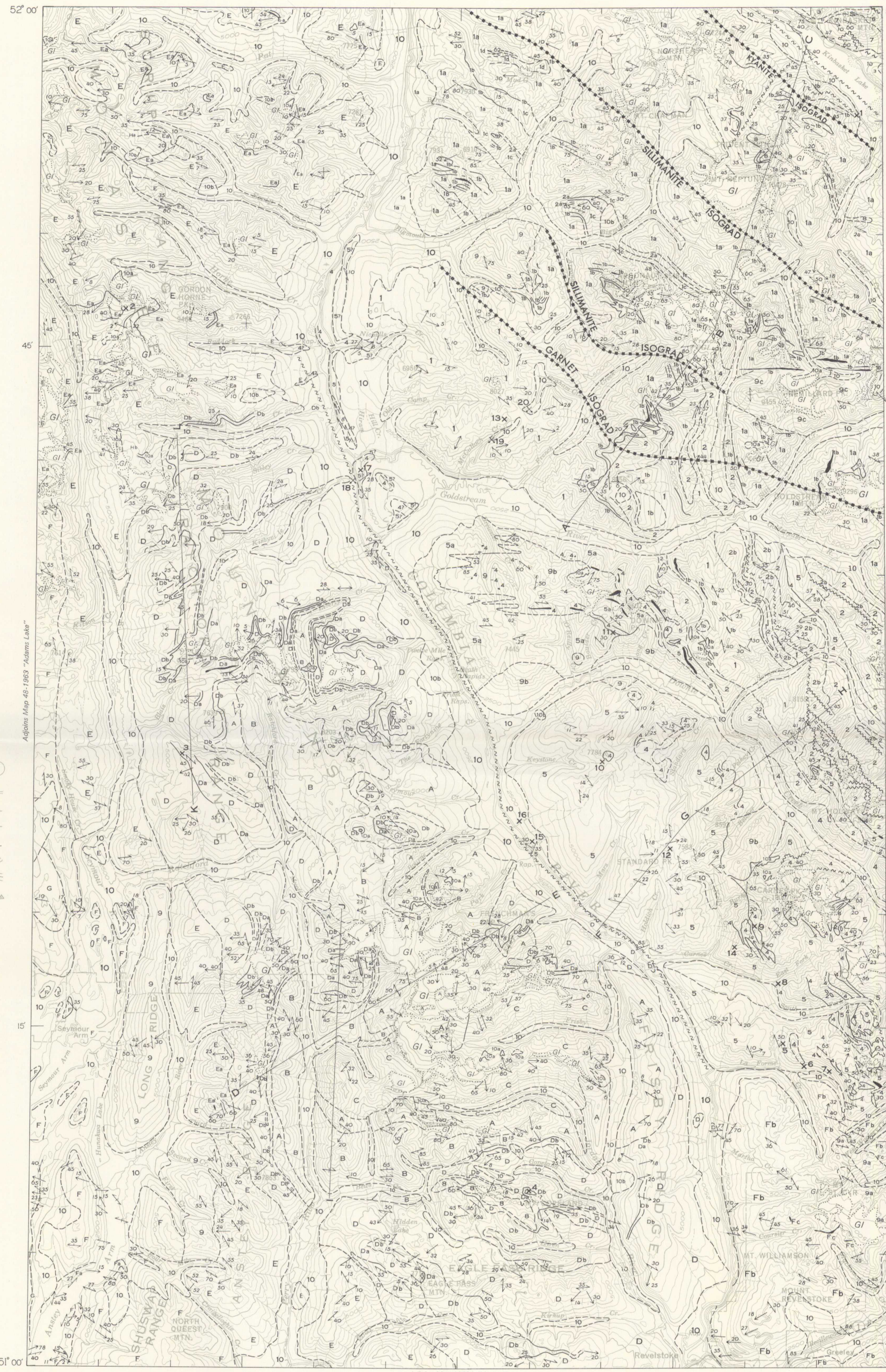
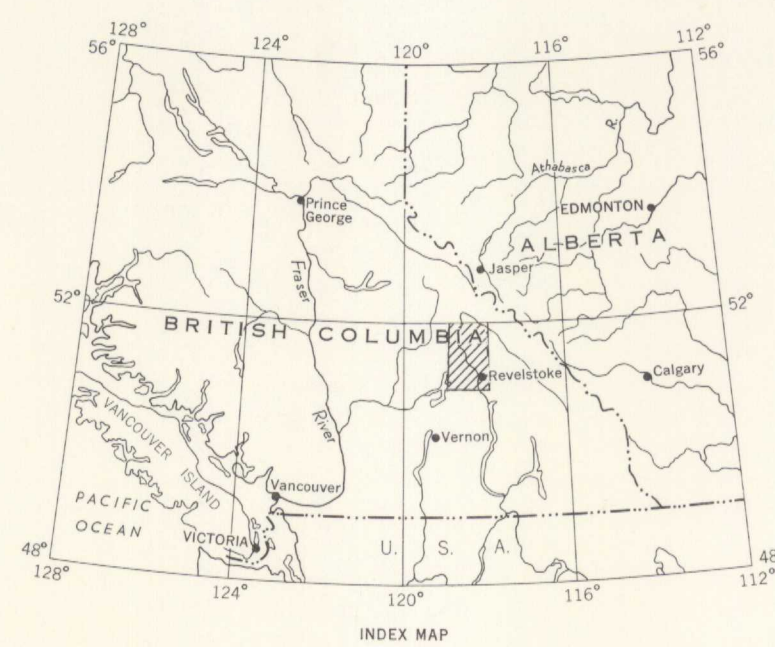
Geology by J.O. Wheeler, 1962 and 1963
Geology of Adamant batholith by P.E. Fox, 1962

Geological cartography by the Geological Survey of Canada, 1964

- Roads, all weather
- Other roads
- Trail
- Railway
- District boundary
- Intermittent river and lake
- Contours (interval 500 feet)
- Horizontal control point

Base-map compiled and drawn by the Surveys and Mapping Branch, 1964, names added by the Geological Survey of Canada

Mean magnetic declination 23° 32' East decreasing 3.3' annually.
Readings vary from 23° 00' in the SE corner to 24° 00' in the NW corner of the map-area



Sections along lines A-B-C, D-E, F-G-H, I-J, and K-L

MAP 12-1964
PAPER 64-32
GEOLOGY
BIG BEND
(SEYMOUR ARM, EAST HALF)
BRITISH COLUMBIA
Scale 1:253,440
1 inch to 4 miles
Miles 4 0 4 8 12
Kilometres 6 0 6 12 18

ESIC CIST
OCT 8 1996
Earth Sciences Secteur des sciences
Sector de la Terre

MAP 12-1964
BIG BEND
BRITISH COLUMBIA
82 M E

NOV 5 1973
DEPARTMENTAL
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12-1964
C-2
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