

LEGEND

CENOZOIC

QUATERNARY
PLEISTOCENE AND RECENT

27 Till, gravel, sand, silt, alluvium

TERTIARY
Eocene and Oligocene

26 KISHENEHN FORMATION: conglomerate

CRETACEOUS
UPPER CRETACEOUS

25 BELLY RIVER FORMATION: green and grey sandstone, mudstone, and shale

ALBERTA GROUP

24C. WAPIABI FORMATION: dark grey shale, silty shale, and siltstone

24B. CARDIUM FORMATION: dark grey sandstone, siltstone, and silty shale

24A. BLACKSTONE FORMATION: dark grey shale, silty shale, and siltstone

LOWER CRETACEOUS

23 CROWNEST FORMATION: agglomerate; tuff; volcanic sandstone and mudstone

BLAIRMORE GROUP

22 Grey and greenish grey sandstone; green and red mudstone; conglomerate; minor dark brown limestone

JURASSIC AND (?) CRETACEOUS

21 KOOTENAY FORMATION: dark grey carbonaceous sandstone, siltstone, shale, and conglomeratic sandstone; coal

JURASSIC

20 FERNIE GROUP
Light grey calcareous siltstone, shale, and sandstone; dark grey to black shale; dark grey siltstone and sandstone; light grey sandy limestone; black limestone

TRIASSIC

19 SPRAY RIVER FORMATION: grey dolomitic siltstone and sandstone; brown shale and silty shale

PENNSYLVANIAN AND (?) PERMIAN

18 ROCKY MOUNTAIN FORMATION: light grey quartzite, quartzitic sandstone, and dolomitic sandstone; cherty dolomite

MISSISSIPPIAN

17 RUNDLE GROUP (15-17)
ETHERINGTON FORMATION: light grey skeletal, oolitic, and pelletal calcarenite; grey sandy and silty limestone; cherty dolomite; minor green shale

16 MOUNT HEAD FORMATION: 16. Undifferentiated
16D. Carnarvon Member: dark grey to black fine-crystalline and cryptocrystalline limestone; minor skeletal calcarenite
16C. Marston Member: grey fine-crystalline silty and argillaceous dolomite and limestone; minor black shale
16B. Loomis Member: grey skeletal calcarenite; medium- to fine-crystalline dolomite and limestone
16A. Salter Member: grey silty and sandy crystalline dolomite; cherty dolomite; cherty limestone; minor skeletal calcarenite

15 LIVINGSTON FORMATION: massive light grey skeletal calcarenite; fine- to coars-crystalline limestone, calcarenitic limestone, and cherty limestone; minor dolomite and silty dolomite

14 BANFF FORMATION:
14B. Upper part: medium grey, fine- to medium-crystalline, cherty, argillaceous, and calcarenitic limestones
14A. Lower and middle parts: dark grey and black, fine-crystalline, argillaceous, chert-banded limestone; black silty shale; black banded chert

13 EXSHAW FORMATION: black shale

DEVONIAN

12 PALLISER FORMATION: massive mottled fine-crystalline limestone and dolomite; brown medium-crystalline dolomite; minor dolomite breccia

11 ALEXO FORMATION: silty laminated dolomite and limestone; limestone and dolomite breccia; minor sandstone

10 FAIRHOLME GROUP (9, 10)
10. Undifferentiated
10D. SOUTHSK FORMATION: 10Da. Arcs and Grotto Members: light grey and brown bedded dolomite; 10Db. Peechee Member: light grey massive dolomite
10C. MOUNT HAWK FORMATION: dark grey argillaceous and silty limestone
10B. BORSATO FORMATION: sugary brown bedded dolomite
10A. PERDRIX FORMATION: black shaly limestone and shale

9 HOLLEBEKE FORMATION: massive grey fine-crystalline limestone; brown and grey fine-crystalline platy dolomite and limestone; limestone and dolomite breccia

CAMBRIAN

8 MIDDLE CAMBRIAN (?)
8C. ELKO FORMATION: massive light grey mottled crystalline dolomite; light and dark grey mottled crystalline dolomite and limestone
8B. Platy green shale; mottled nodular limestone and dolomite
8A. FLATHEAD FORMATION: light grey and yellowish brown, coarse-grained quartzite and quartzitic sandstone

PURCELL

7 KINTLA FORMATION:
7D. Member D: green argillite and argillaceous sandstone (in structure sections only)
7C. Member C: red and purplish red quartzite and quartzitic sandstone
7B. Member B: green argillite and dolomitic argillite
7A. Member A: red siltstone, arenaceous siltstone and argillite

6 SHEPPARD FORMATION: brown-weathering grey dolomite; stromatolitic dolomite; red and grey quartzite and siltstone; green argillite
6A. PURCELL LAVA: dark green and purplish green chloritized amygdaloidal andesite and pillow andesite

5 SIYEH FORMATION: grey dolomite; greyish blue limestone; green red and black argillite; sandy and conglomeratic limestone

4 GRINNELL FORMATION: red argillite; white and red quartzite and quartzitic sandstone; argillite-pebble conglomerate

3 APPEKUNNY FORMATION: green argillite; green and white quartzite and quartzitic sandstone

2 ALTYN FORMATION:
2B. Middle and upper parts: yellowish brown weathering, grey, fine-crystalline dolomite and concretionary or stromatolitic dolomite; sandy dolomite; black argillite
2A. Lower part: dark grey argillite; dark grey, thin-bedded, colour-laminated limestone and dolomite

1 WATERTON FORMATION: grey banded laminated and streaked limestone and dolomite; dark grey argillite and dolomite; red and green fine-crystalline argillaceous dolomite; white cryptocrystalline limestone

A Trachyte, syenite; Lower Cretaceous or later

NOTE 1: Few exposures; undifferentiated Purcell lava and Sheppard and Kintla Formations

NOTE 2: Few exposures; undifferentiated Palliser and Alexo Formations and Fairholme Group

Rock outcrop (attitude of layering not available)
Bedding (horizontal, inclined, vertical, overturned)
Cleavage (inclined)
Lineation (axis of small fold)
Thrust fault (defined, approximate, assumed; teeth indicate upthrust side)
Tear fault (defined, approximate, assumed; arrows indicate relative movement)
Gravity fault (defined, approximate, assumed; solid circle indicates downthrow side)
Fault projected under cover of younger sediments
Anticline (defined, approximate; arrow indicates plunge)
Syncline (defined, approximate; arrow indicates plunge)
Fossil locality
Mineral prospect or occurrence (c. coal; p. phosphate)
Coal adit

Geology by R. A. Price, 1956; R. A. Price and D. U. Wise, 1957

Compilation by R. A. Price, 1959

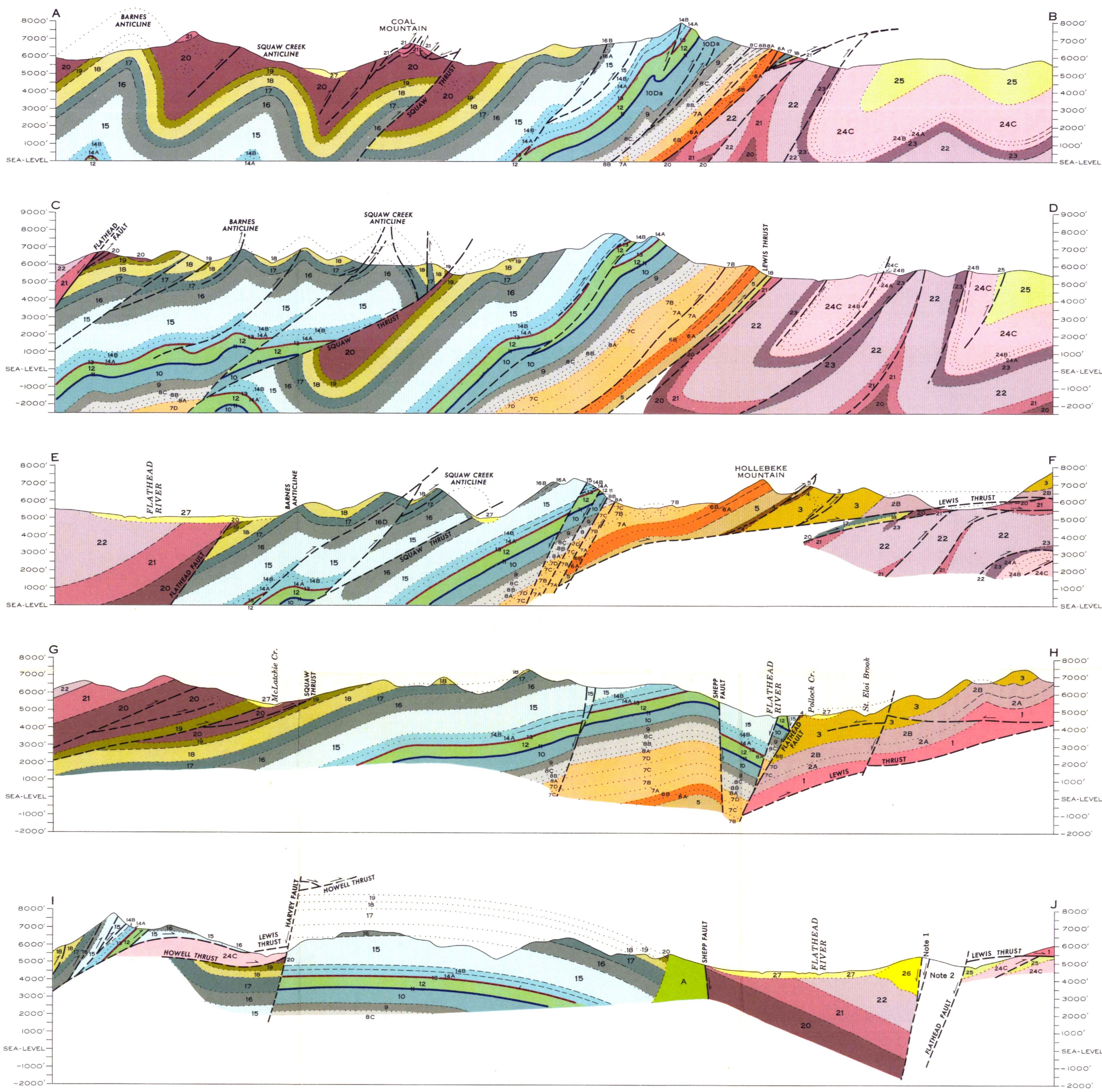
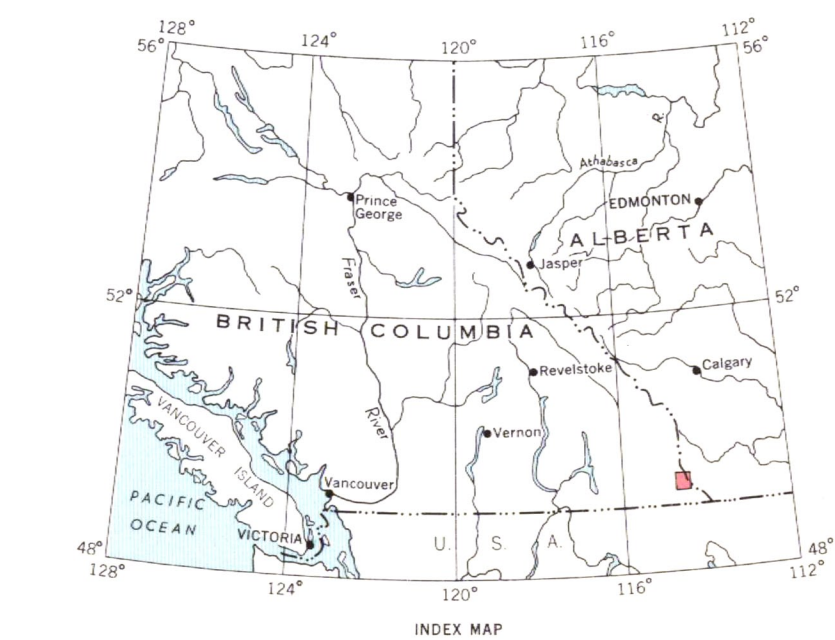
To accompany G. S. C. Memoir 336 by R. A. Price

Geological cartography by the Geological Survey of Canada, 1964

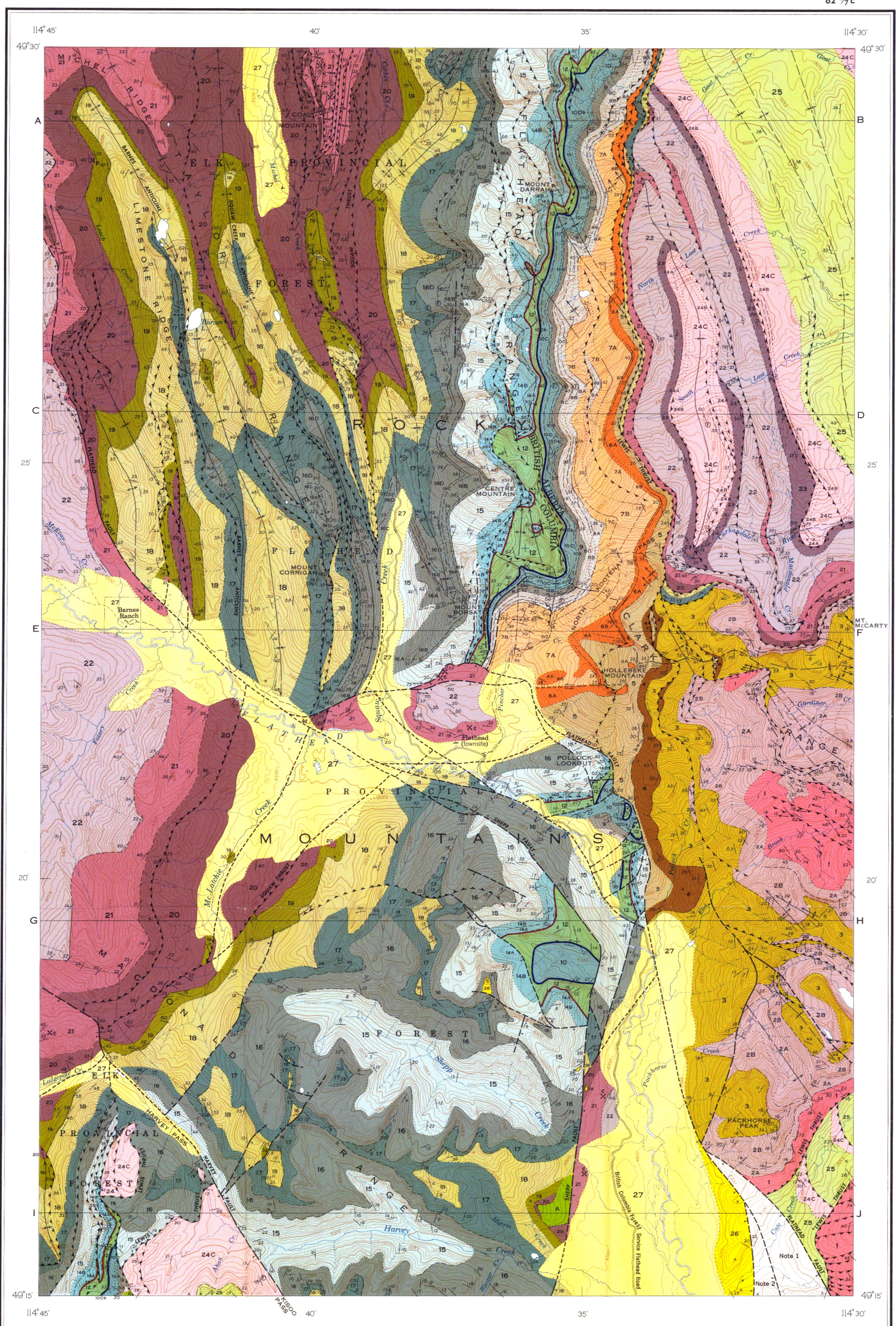
Road, dry weather
Cart track
Trail
Provincial boundary
Provincial Forest boundary
Building
Horizontal control point
Intermittent stream
Marsh
Sand
Contours (interval 100 feet)
Height in feet above mean sea level

Base-map compiled and drawn by the Surveys and Mapping Branch, 1961

Approximate magnetic declination, 20° 42' East, decreasing 2.5' annually



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



PUBLISHED 1965
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MAP 1154A
GEOLOGY
FLATHEAD
(Upper Flathead, East Half)
BRITISH COLUMBIA - ALBERTA

Scale 1:63,360
1 inch to 1 mile
Miles 1 0 1 2 3
Kilometres 1 0 1 2 3 4 5

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