

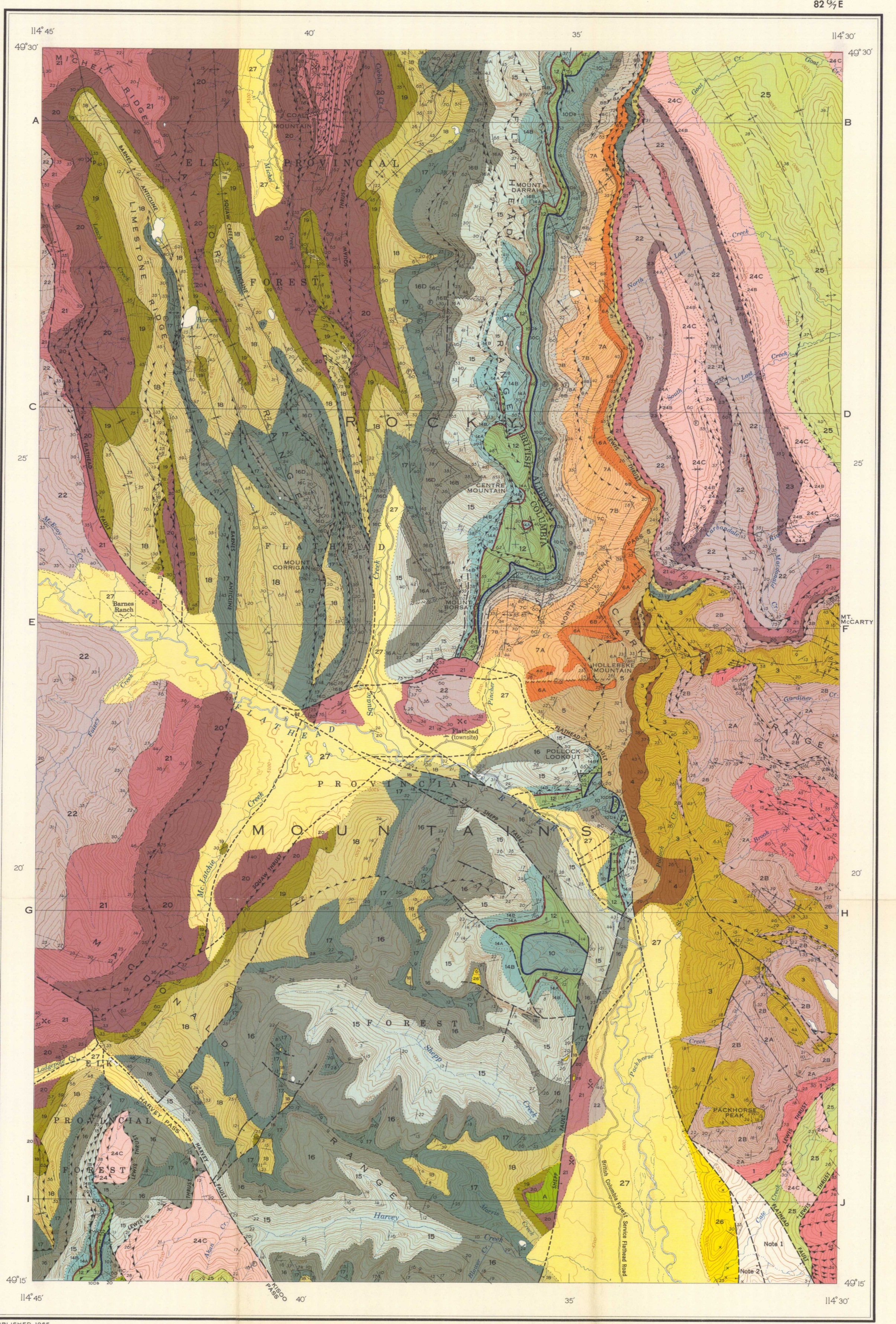
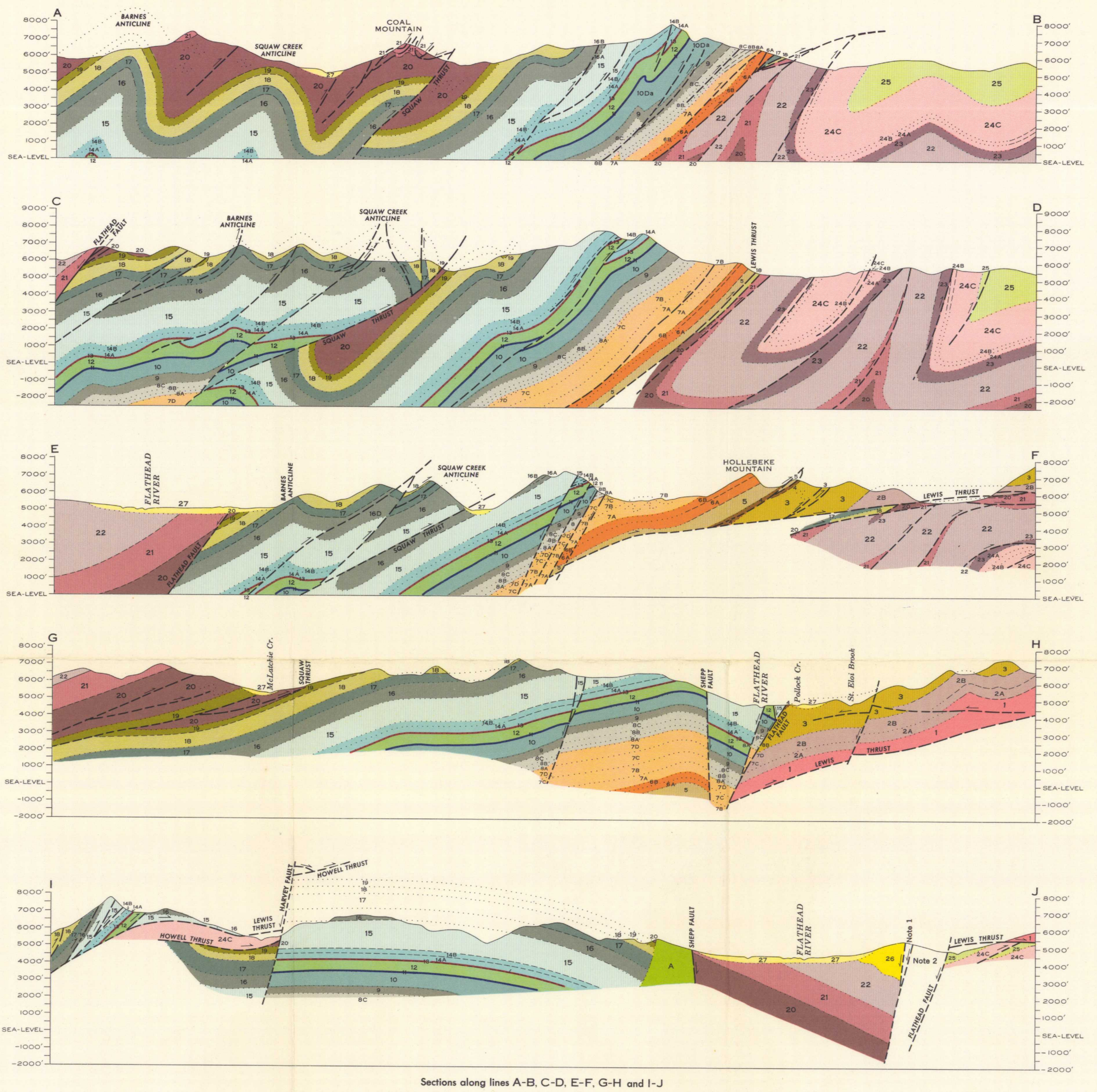


- QUATERNARY**
PLEISTOCENE AND RECENT
- 27 Till, gravel, sand, silt, alluvium
- TERTIARY**
Eocene and Oligocene
- 26 KISHENEHN FORMATION: conglomerate
- CRETACEOUS**
UPPER CRETACEOUS
- 25 BELLY RIVER FORMATION: green and grey sandstone, mudstone, and shale
- ALBERTA GROUP
- 24C WAPIABI FORMATION: dark 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 CROWSNEST 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**
- RUNDLE GROUP (15-17)
- 17 ETHERINGTON FORMATION: light grey skeletal, oolitic, and pellaoidal calcarenite; grey sandy and silty limestone; cherty dolomite; minor green shale
- 16 MOUNT HEAD FORMATION: 16. Undifferentiated
- 16D. Camaron 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 coarse-crystalline limestone, calcarenite limestone, and cherty limestone; minor dolomite and silty dolomite
- 14 BANFF FORMATION:
- 14B. Upper part: medium grey, fine- to medium-crystalline, cherty, argillaceous, and calcarenite 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
- FAIRHOLME GROUP (9, 10)
10. Undifferentiated
- 10D. SOUTHSK FORMATION: 10Da. Anns and Grotto Members: light grey and brown bedded dolomite; 10Db. Pechee 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**
MIDDLE CAMBRIAN (?)
- 8 ELKO FORMATION: massive light grey mottled crystalline dolomite; light and dark grey mottled crystalline dolomite and limestone
- BB. Platy green shale; mottled nodular limestone and dolomite
- BA. 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
- 6B. 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) x
- Bedding (horizontal, inclined, vertical, overturned) - - - - -
- Cleavage (inclined) / / / / /
- Lamination (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 (F)
- Mineral prospect or occurrence (c, coal; p, phosphate) (P)
- 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 2.3" annually



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 Miles
Kilometers 1 0 1 2 3 4 5 Kilometers

1154A

Done

1154A

1154A