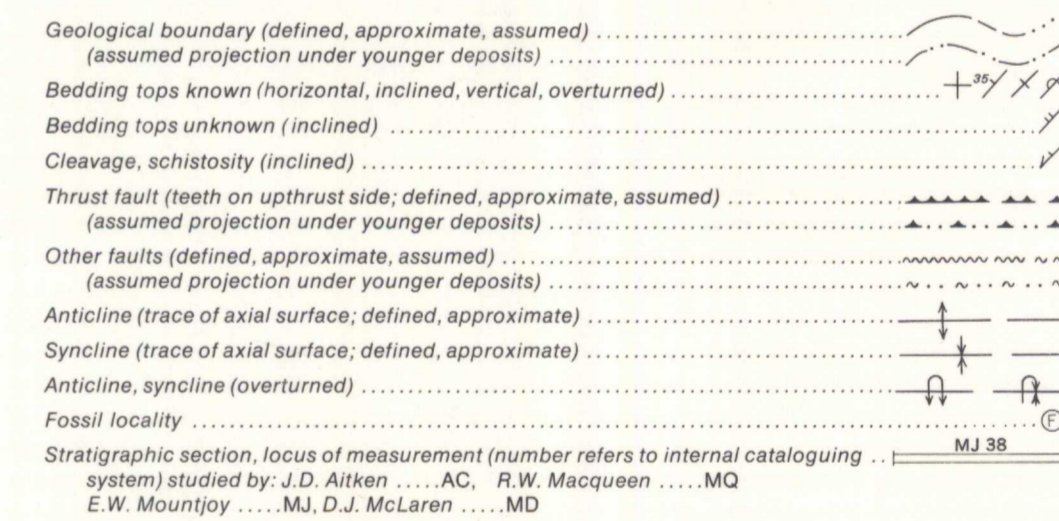


LEGEND

- CENOZOIC**
- PLEISTOCENE AND RECENT**
- Qd** Till, gravel, sand, silt, alluvium (shown only where bedrock is extensively concealed)
- CRETACEOUS**
- LOWER CRETACEOUS AND JURASSIC**
- Jkk** KOOTENAY FORMATION: grey and black carbonaceous and limonitic sandstone; grey and black siltstone; black carbonaceous shale and mudstone; coal
- JURASSIC**
- FERRIS GROUP**
- Jf** Dark grey to black shale; dark grey siltstone; dark grey, platy, silty, argillaceous limestone; brown limonitic quartz sandstone
- TRIASSIC**
- SPRAY RIVER GROUP (Spr-Riv)**
- Trwh** WHITEHORSE FORMATION: light grey, dolomitic quartz siltstone and sandstone; red, green, and buff mudstone and siltstone; limestone and dolomite breccia
 - Trsm** SULPHUR MOUNTAIN FORMATION: dark grey, thin-bedded siltstone, silty mudstone and shale, dolomite siltstone, and silty dolomite
- PERMIAN AND PENNSYLVANIAN**
- ROCKY MOUNTAIN GROUP**
- Ppim** Light grey quartz sandstone, dolomitic sandstone; light grey dolomite, sandy and cherty dolomite; dark grey phosphatic siltstone, shale, limestone and chert; chert breccia
- MISSISSIPPIAN**
- RUNDLE GROUP (Miv-Met)**
- Met** ETHERINGTON FORMATION: light grey limestone, cherty limestone, and calcarenitic limestone; dolomite; cherty dolomite, green and red shale; siltstone; breccia
 - Mmhu** Upper Part: dense dark grey and black limestone, argillaceous limestone and dolomite, and calcareous and dolomitic shale
 - Mmhl** Lower Part: light grey skeletal calcarenite, calcarenitic limestone, cherty and silty dolomite
 - Mmth** MOUNT HEAD FORMATION: dense dark grey and black limestone and argillaceous dolomite; grey limestone and calcarenitic limestone; cherty and silty dolomite
 - Mlv** LIVINGSTONE FORMATION: light grey skeletal calcarenite, calcarenitic limestone; cherty limestone; dolomite
 - Mblu** Upper Part: dark grey argillaceous finely crystalline limestone, cherty limestone; calcarenitic limestone
 - Mblm** Middle Part: light to dark grey skeletal calcarenite and calcarenitic limestone, argillaceous limestone
 - Mblf** Lower Part: dark grey and dark brownish grey shale, calcareous shale, argillaceous limestone and cherty limestone
 - Mbf** EXSHAW AND BANFF FORMATIONS: dark grey finely crystalline, argillaceous thin-bedded limestone; dark brownish grey, thin-bedded to fissile shale and calcareous shale; argillaceous calcarenitic limestone; cherty limestone; dolomite
- DEVONIAN**
- UPPER DEVONIAN**
- Dpe** PALLISER FORMATION: thickly bedded and massive, mottled, dolomitic limestone, grey dense limestone, and grey-brown dolomite
 - Dbs** ALEXO FORMATION: thin-bedded silty dolomite, dolomitic sandstone, light grey dolomite, breccia
 - Dss** SASSENACH FORMATION: light grey quartz sandstone, calcareous and argillaceous sandstone; medium to dark grey argillaceous siltstone and silty argillaceous limestone (up to 1100')
 - Dmh** MOUNT HAWK FORMATION: medium to dark grey dense limestone and argillaceous limestone with corals and brachiopod fragments
 - Dsn** FAIRHOLME GROUP (Sn-Sn1) SOUTHEK FORMATION: massive to thickly bedded, light to medium grey, finely to coarsely crystalline dolomite; some medium to dark brownish grey dolomite
 - Dcn** CAIRN FORMATION: massive, dark brownish grey and grey medium crystalline dolomite with Amphipora and stromatopora beds; dark grey (light grey weathering) limestone, dolomitic limestone and calcareous dolomite in the lower part; minor breccia and chert
- PALEOZOIC**
- DEVONIAN**
- Dsk** SKOKI FORMATION: dolomite, mainly grey, finely and very finely crystalline, partly siliceous partly fossiliferous; minor chert masses
 - Dtp** TIPPERARY FORMATION: light grey to dark grey quartz sandstone, dolomitic sandstone, and dolomitic siltstone
 - Dou** OUTRAM FORMATION: limestone, grey, dense, nodular, rhythmically bedded, with argillaceous and siliceous tracery; much chert; minor brown shale, (up to 400')
- ORDOVICIAN AND UPPER CAMBRIAN**
- COsp** SURVEY PEAK FORMATION: interbedded shale, grey, calcareous, and limestone (partly dense, partly fragmental, partly algal masses); minor chert; basal shales: grey to olive, calcareous, weathering pale greenish grey; with minor limestone (mainly flat pebble conglomerate) and siltstone
- CAMBRIAN**
- UPPER CAMBRIAN**
- LnX** LYNX GROUP (Ln1-Ln)
 - Cm** MISTAYA FORMATION: limestone, partly dense, partly fragmental; dolomitized equivalents; minor chert; prominent algal stromatolites
 - Cbc** BISON CREEK FORMATION: interbedded shale and mudstone, grey and greenish grey, calcareous; and limestone, partly fragmental, partly dense
 - Cll** LYLELL FORMATION: limestone, partly dense, dolomite-mottled; partly dense, laminated; locally silty and sandy; massive; dolomitized equivalents
 - Csu** SULLIVAN FORMATION: interbedded shale, greenish grey to brown, calcareous; and limestone, mainly fragmental, partly oolitic; dense, algal masses
- MIDDLE AND UPPER CAMBRIAN**
- Cwf** WATERFOWL FORMATION: limestone, mainly dense, with dolomite mottling and liminae; partly silty and sandy, minor fragmental and oolitic limestone; derived secondary dolomite
- MIDDLE CAMBRIAN**
- Car** ARCTOMYS FORMATION: interbedded shale, purple-red, green, grey; and siltstone, yellow, dolomitic; minor dolomite, grey to yellow; mud-cracks, ripple marks, salt crystal casts
 - Cpk** PIKA FORMATION: limestone, dense, mainly flaggy, with dolomite partings and mottling; minor flat-pebble conglomerate and oolite; derived secondary dolomite; minor shale near the base
 - Cel** ELDON FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomite, fine to coarse-crystalline, largely mottled, largely or entirely secondary
 - Cot** STEPHEN FORMATION: interbedded shale, grey to green; and limestone, partly dense, flaggy with dolomite partings, partly fragmental, minor oolite
 - Cca** CATHEDRAL FORMATION: limestone, mainly dense massive, dolomite mottled, dolomitized equivalents, mainly mottled
 - Cmw** MOUNT WHITE FORMATION: interbedded shale, greenish grey; siltstone, green to grey; and limestone, mainly fragmental, partly oolitic
- LOWER CAMBRIAN AND EARLIER(?)**
- GOG GROUP**
- Cgg** Mainly sandstone and quartzite, yellow-grey to white, thin to thick bedded, partly glauconitic; minor shale, grey, green, purple-red
- PROTEROZOIC**
- WINDERMERE**
- Em** NIETTE GROUP (HADRYNIAN) Grey slate, shale, and siltstone; poorly sorted grey and greenish grey feldspathic quartz sandstone and pebble and granule conglomerate; green and purple slate; dense limestone and sandy limestone conglomerate

Note 1: Undifferentiated Eldon, Pika, Arctomys, Waterfowl, Sullivan, Lylell, Bisson Creek, and Mistaya Formations
Note 2: Undifferentiated Rundle and Rocky Mountain Groups



Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs, (1964-1969) ground and air observations by J.D. Aiken, H.U. Bielenstein, D.G. Cook, G.B. Leach, E.W. Mountjoy and R.A. Price (1964-1967), and published geological maps

Geological cartography by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1959

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1972, 22°07' east decreasing 2.6' annually

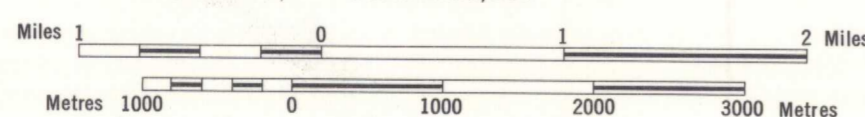
Elevations in feet above mean sea-level

Published, 1972
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa



ALTA.-B.C. BANFF (E3)
1:50,000
1972 1974

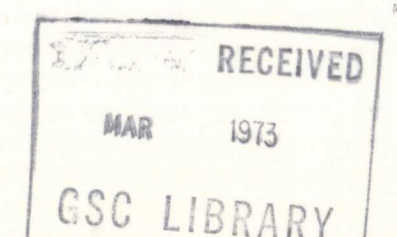
MAP 1294A
GEOLOGY
BANFF
(EAST HALF)
WEST OF FIFTH MERIDIAN
ALBERTA-BRITISH COLUMBIA
Scale 1:50,000



82 N/6	82 O/9	82 P/6
1297A	1296A	1272A
1271A		
82 N/7	82 O/4	82 P/3
1295A	1294A	1266A
1265A		
82 N/8	82 I/3	82 J/4

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Map 1294A
BANFF
(East Half)
ALBERTA-BRITISH COLUMBIA

1294A