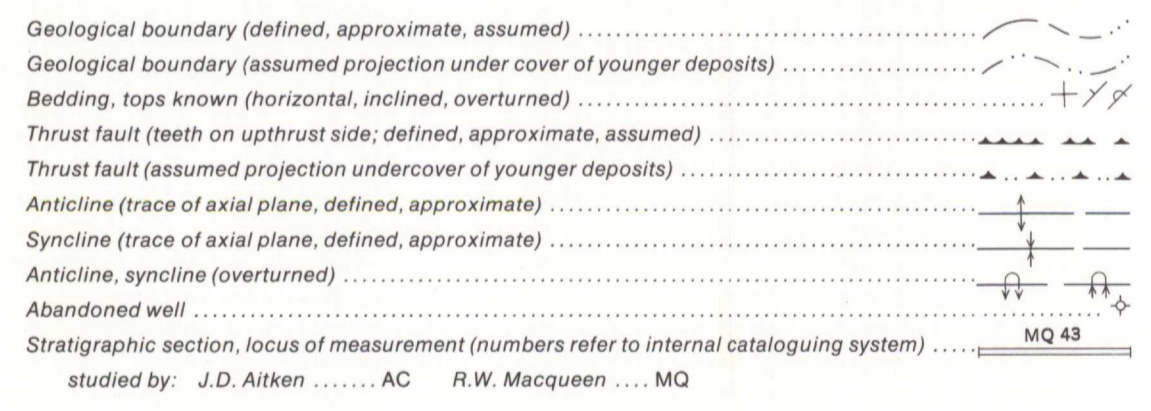


LEGEND

- CENOZOIC**
- QUATERNARY PLEISTOCENE AND RECENT**
- Qst Snowfield, icefield, glacier
 - Qd Till, alluvium, colluvium, gravel, sand, silt
- LOWER CRETACEOUS BLAIRMORE GROUP**
- Kbl Grey sandstone; dark grey shale; chert, quartz, and quartzite pebble conglomerate and conglomeratic sandstone at base
- JURASSIC AND (?) CRETACEOUS**
- JKk KOOTENAY FORMATION: grey and black, carbonaceous and limonitic sandstone, grey and black siltstone; black carbonaceous mudstone and shale; coal
- JURASSIC FERNIE GROUP**
- Jf Dark grey to black shale; dark grey siltstone and sandstone; dark grey, silty, argillaceous limestone; brown, limonitic, quartz sandstone
- TRIASSIC**
- Twh SPRAY RIVER GROUP (Tsm - Twh)
 - Wh Whitehorse Formation: light grey, dolomitic siltstone and sandstone; red, green, and brown mudstone and siltstone; limestone and dolomite breccia
 - Scm Sulphur Mountain Formation: dark grey and brown, thin-bedded siltstone, silty mudstone, shale, and dolomitic siltstone
- PERMIAN AND PENNSYLVANIAN ROCKY MOUNTAIN GROUP**
- Ppm Light grey quartz sandstone, dolomitic sandstone, silty dolomite; chert
- MISSISSIPPIAN**
- Met RUNDLE GROUP (Miv - Met)
 - Met Ethernington Formation: light grey limestone, cherty limestone, and calcarenitic limestone; dolomite, cherty dolomite, green and red shale; siltstone; breccia
 - Mmh MOUNT HEAD FORMATION: dense dark grey limestone and argillaceous dolomite; grey limestone and calcarenitic limestone; cherty and silty dolomite and limestone. May include strata of Ethernington Formation at top, locally
 - Mtv TURNER VALLEY FORMATION: light grey skeletal calcarenite and calcarenitic limestone; cherty limestone; dolomite
 - Msh SHUNDA FORMATION: light to dark grey dense limestone, calcarenitic limestone, and cherty limestone
 - Mpk PEKISKO FORMATION: light grey skeletal calcarenite, calcarenitic limestone, cherty limestone, and dolomite
 - Mbtu Upper part: dark grey, cherty, argillaceous and dolomitic limestone and calcarenitic limestone, and brownish grey argillaceous dolomite
 - Mbfm Middle part: light to dark grey skeletal calcarenite, calcarenitic limestone, and argillaceous and dolomitic limestone
 - Mbfl Lower part: dark grey and brownish grey shale and calcareous shale; brown argillaceous siltstone; argillaceous and cherty limestone
 - Mlv LIVINGSTONE FORMATION: light grey skeletal calcarenite and calcarenitic limestone; cherty limestone; dolomite
 - Mbf EXSHAW AND BANFF FORMATIONS: dark grey, finely crystalline, thin-bedded limestone; dark brownish grey shale and calcareous shale; brown argillaceous siltstone, argillaceous and cherty skeletal calcarenitic limestone, and argillaceous dolomite
- PALEOZOIC**
- DEVONIAN UPPER DEVONIAN**
- Dpa PALLISER FORMATION: thickly bedded and massive, mottled dolomitic limestone; grey dense limestone; greyish brown dolomite
 - Dax ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone, light grey dolomite, and breccia
 - Dcn FAIRHOLME GROUP (Dcn - Dax)
 - Dsx SOUTHESK FORMATION: massive to thickly bedded, light to medium grey, finely to coarsely crystalline dolomite, greyish brown finely to coarsely crystalline dolomite
 - Dcn CAIRN FORMATION: massive to thickly bedded, dark brownish grey and grey, medium crystalline dolomite with Amphipora and stromatopora beds; dark grey limestone, dolomitic limestone and dolomite in the lower part; minor chert and breccia; includes channel-filling red beds (Yahatinda Formation) locally at base
- ORDOVICIAN**
- Osk SKOKI FORMATION: dolomite, mainly grey, finely and very finely crystalline, partly siliceous, partly fossiliferous; minor chert masses
 - Oou OUTRAM FORMATION: limestone, mainly dense, nodular, cherty; with argillaceous, dolomitic, and siliceous tracery; dolomitized equivalents; minor brown shale; rhythmically bedded
- CAMBRIAN AND ORDOVICIAN**
- Cosp SURVEY PEAK FORMATION: shale, grey, calcareous; interbedded with limestone, partly dense, partly fragmental, partly algal masses; minor chert; basal shales, calcareous, grey to olive, weathering pale greenish grey, with minor limestone, mainly flat-pebble conglomerate, and siltstone
- CAMBRIAN UPPER CAMBRIAN**
- Cem MISTAYA FORMATION: limestone, partly dense, dolomite-mottled; 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
 - Ccl LYELL FORMATION: limestone, partly dense, dolomite-mottled, partly dense laminated, locally silty and sandy, mainly massive; dolomitized equivalents
 - Csu SULLIVAN FORMATION: interbedded greenish grey to brown calcareous shale, and limestone, mainly fragmental, partly oolitic; dense algal masses
- LYNX GROUP UPPER DIVISION:** dolomite, mainly grey, locally tinged or speckled with pink, very finely crystalline, grading to dolomitic siltstone, laminated, thickly bedded to massive
- LYNX GROUP:** Dolomite, mainly grey, very finely to finely crystalline, partly silty; interbeds of siltstone, grey and greenish grey shale, and limestone; minor sandstone and chert masses
- MIDDLE AND UPPER CAMBRIAN**
- Ewf WATERFOWL FORMATION: limestone, mainly dense with dolomite mottling and laminae, partly silty and sandy; minor fragmental and oolitic limestone; dolomitized equivalents
- MIDDLE CAMBRIAN**
- Car ARCTOMY'S FORMATION: thinly interbedded; purple-red, green, and grey shale; yellow dolomitic siltstone with ripple marks, mud cracks, and salt casts; and minor yellow-weathering dolomite
 - Cpk PIKA FORMATION: grey, dense, thin-bedded, flaggy limestone with partings and mottling of dense dolomite; limestone pebble conglomerate; oolite; dolomitized equivalents; minor shale intervals near the base
 - Cel ELDON FORMATION: dense, predominantly grey, dolomite-mottled, massive limestone; dolomitized equivalents
 - Cst STEPHEN FORMATION: interbedded grey to green shale and limestone, partly dense, partly fragmental, minor oolitic; minor siltstone
 - Cca CATHEDRAL FORMATION: limestone, predominantly dense, dolomite-mottled, massive; dolomitized equivalent
 - Cmw MOUNT WHYTE FORMATION: interbedded grey to green shale and grey dense thin-bedded limestone with dolomite partings and mottlings. As mapped, locally includes interbedded shale and glauconitic sandstone (Gog Group) at base
- MIDDLE (?) AND LOWER CAMBRIAN GOG GROUP**
- Cgg Quartz sandstone; siltstone; shale



studied by: J.D. Aitken AC R.W. Macqueen MQ

Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs (1964-1967), ground and air observations by J.D. Aitken, H.U. Bielenstein, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1966)

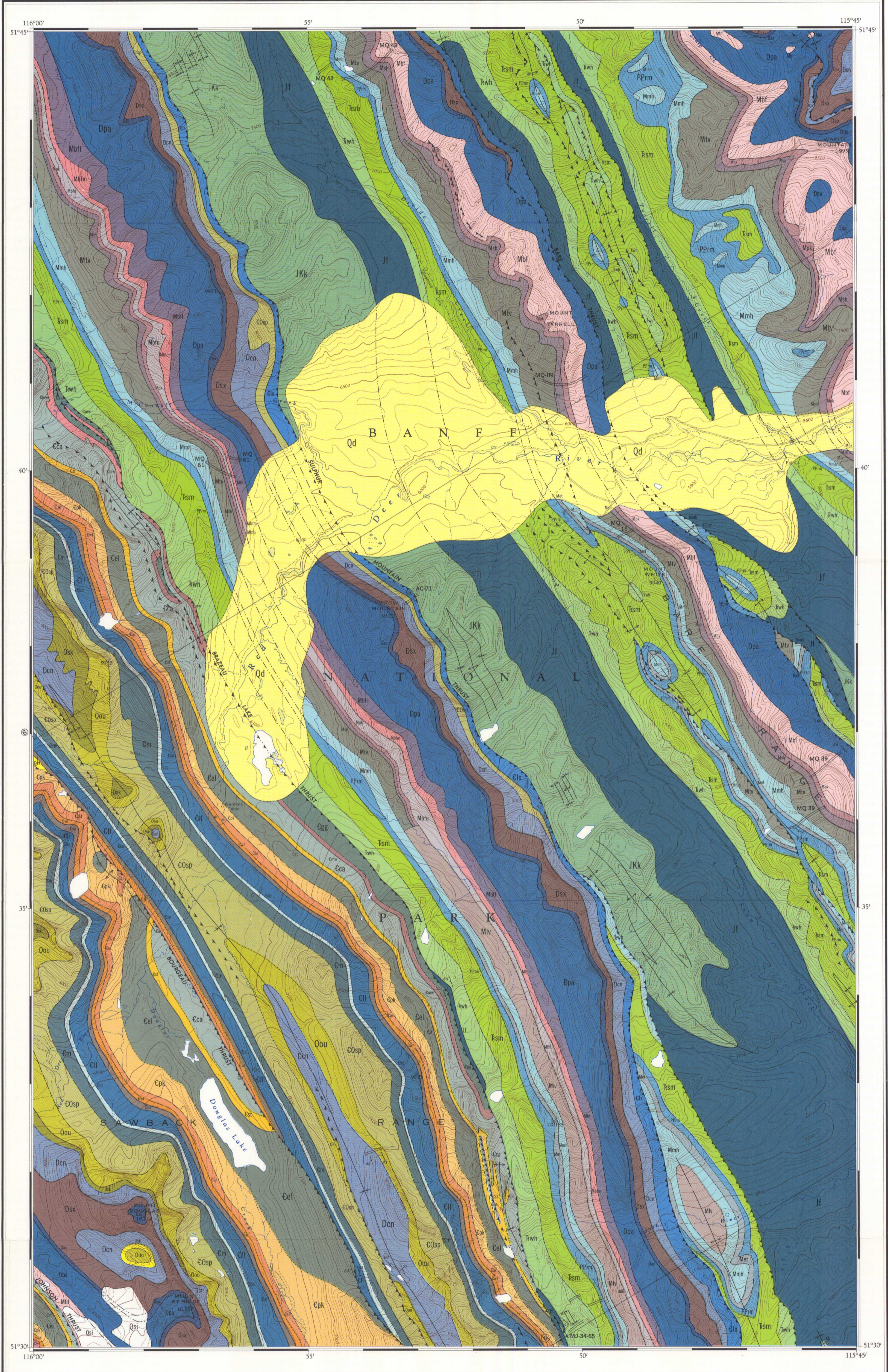
Geological compilation by R.A. Price
 Geological cartography by the Geological Survey of Canada

Topographic base-map at the same scale published by the Surveys and Mapping Branch in 1960

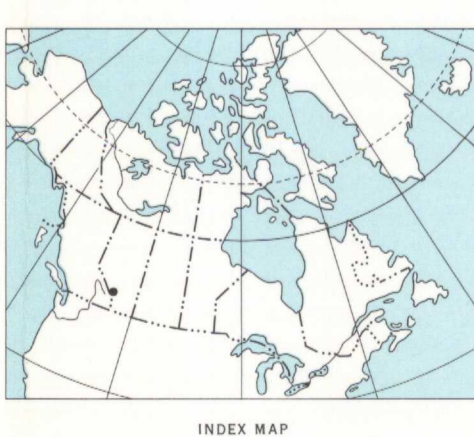
Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1970, 22°30' East decreasing 3.5' annually

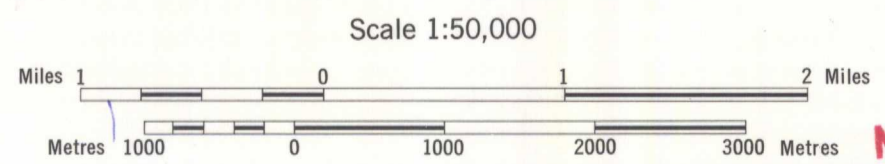
Elevations in feet above mean sea-level



Published, 1971
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MAP 1274A
 GEOLOGY
BARRIER MOUNTAIN
 (WEST HALF)
 WEST OF FIFTH MERIDIAN
 ALBERTA



82 N/4	82 O/3	82 O/4
1276A	1275A	
82 N/5	82 O/2	82 O/1
1274A	1273A	
82 N/6	82 O/5	82 O/6
	1272A	1271A

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BARRIER MOUNTAIN
 (West Half)
 ALBERTA

1274A

ALTA. BARRIER MOUNTAIN W 1/2
 1:50,000
 MAP 1274A