

LEGEND

- QUATERNARY**  
**PLEISTOCENE AND RECENT**  
 Qd Till, alluvium, colluvium
- CRETACEOUS**  
**UPPER CRETACEOUS**  
 Ksz BRAZEAU FORMATION: greenish grey and grey, feldspathic sandstone and siltstone; rubby green and grey mudstone; local pebble conglomerate; minor coal and bentonite  
 Kwp ALBERTA GROUP  
 WAPIABI FORMATION: silty, dark grey shale and mudstone, typically platy, locally calcareous or concretionary; laminated siltstone; medium to dark grey, argillaceous siltstone and sandstone; minor pebble layers and bentonite seams  
 Kcr CARDIUM FORMATION: very fine to fine grained; grey sandstone; grey to dark grey siltstone and argillaceous siltstone; dark grey shale (locally concretionary); minor pebble layers and conglomerate lenses  
 Kbk BLACKSTONE FORMATION: dark grey shale, including silty shale, calcareous shale and concretionary shale; grey to dark grey siltstone; minor sandstone, bentonite seams and pebble layers  
**LOWER CRETACEOUS**  
 Kbm BLAIRMORE GROUP  
 BEAVER MINES FORMATION: massive, coarse grained, greenish grey sandstone, siltstone and rubby mudstone; minor grey and black shale; minor reddish grey mudstone; minor conglomerate  
 K(b) LOWER BLAIRMORE: grey siltstone and sandstone, commonly calcareous and thin bedded; grey and black shale; grey limestone; minor coal seams; yellowish grey sandstone and minor pebbly sandstone of the Cadomin Formation at the base  
**JURASSIC AND (?) CRETACEOUS**  
 Jk KOOTENAY FORMATION: grey and black, commonly carbonaceous and limonitic sandstone; grey and black siltstone; black, carbonaceous shale; minor coal  
**JURASSIC**  
**FERNE GROUP**  
 J Dark grey to black shale; dark grey siltstone and sandstone; dark grey, platy, silty, argillaceous limestone; brown, limonitic, quartz sandstone  
**TRIASSIC**  
 TR SPRAY RIVER GROUP (Tsm-Tsh)  
 Twh WHITEHORSE FORMATION: light grey, dolomitic siltstone and sandstone; red, green, and brown mudstone and siltstone; limestone and dolomite breccia  
 Tsm SULPHUR MOUNTAIN FORMATION: dark grey and brown, thin-bedded siltstone, silty mudstone, shale, and dolomitic siltstone
- PERMIAN AND PENNSYLVANIAN**  
**ROCKY MOUNTAIN GROUP**  
 PPrm Light grey quartz sandstone, dolomitic sandstone, silty dolomite; chert
- MISSISSIPPIAN**  
 Met ETHERINGTON 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
- PALEOZOIC**  
 Mlv 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  
 Mbfu 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  
 Mbl 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
- DEVONIAN**  
**UPPER DEVONIAN**  
 Dps PALLISER FORMATION: thickly bedded and massive, mottled dolomitic limestone; grey dense limestone; greyish brown dolomite  
 Dsx ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone, light grey dolomite, and breccia  
 Dsx FAIRHOLME GROUP (Dsx-Dsx1)  
 Dsx SOUTHSK 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 stromatoporoid beds; dark grey limestone, dolomitic limestone and dolomite in the lower part; minor chert and breccia; includes channel-filling red beds (Yahstinda Formation) locally at base  
**CAMBRIAN**  
**UPPER CAMBRIAN**  
 LYNX GROUP  
 CLxu UPPER DIVISION: dolomite, mainly grey, locally tinged or speckled with pink, very finely crystalline, grading to dolomitic siltstone, laminated, thickly bedded to massive  
 Csu SULLIVAN FORMATION: interbedded grey silty dolomitic shale and grey to brown silty dolomite, grading to dolomitic siltstone  
 CLx MIDDLE AND UPPER CAMBRIAN LYNX GROUP (Sul-Dlx) (undivided)  
 Cwf MIDDLE AND UPPER CAMBRIAN WATERFOWL FORMATION: grey to pink very fine to micro-crystalline silty dolomite, dolomitic siltstone, chert nodules  
**MIDDLE CAMBRIAN**  
 Cat ARCTOMYS 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 equivalent  
 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 (occurs in structure sections only)

Note A: undifferentiated Cathedral, Stephen, Eldon, and Pika Formations in imbricate fault slices

Geological boundary (defined, approximate, assumed) .....  
 Bedding, tops known (inclined, overturned) .....  
 Bedding, tops unknown (inclined, vertical) .....  
 Fault, genetic type unknown (approximate, assumed) .....  
 Thrust fault (teeth on upthrust side; defined, approximate, assumed) .....  
 Anticline (trace of axial plane, defined, approximate) .....  
 Syncline (trace of axial plane, defined, approximate) .....  
 Anticline, syncline (overturned) .....  
 Fossil locality .....  
 Stratigraphic section, locus of measurement (number refers to internal cataloguing system) studied by: J.D. Aitken ..... AC R.W. Macqueen ..... MQ

INDEX TO FOSSIL LOCALITIES BY GSC CATALOGUE NUMBER

F1 ..... 58857  
 F2 ..... 60995-62036, 62057-62091  
 F3 ..... 52570

Geology in mountains southwest of McConnell thrust 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, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1966) and published geological maps

Geology in foothills northeast of McConnell thrust by N.C. Ollerenshaw based on detailed ground observations and studies of vertical air photographs by N.C. Ollerenshaw (1963-1966)

Geological compilation by R.A. Price and N.C. Ollerenshaw

Geological cartography by the Geological Survey of Canada

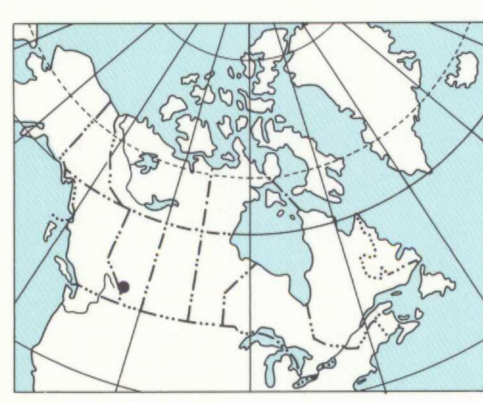
Base-map at the same scale published by the Surveys and Mapping Branch in 1958

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

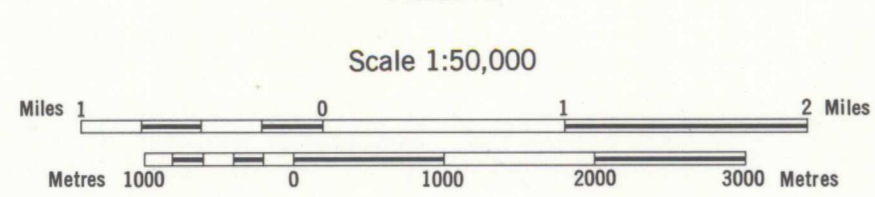
Approximate magnetic declination 1960, 22° 08' East decreasing 3.5 annually

Elevations in feet above mean sea-level

Published: 1971  
 Copies of this map may be obtained from the Geological Survey of Canada, Ottawa



MAP 1271A  
 GEOLOGY  
 LAKE MINNEWANKA  
 (EAST HALF)  
 WEST OF FIFTH MERIDIAN  
 ALBERTA



82 0/2	82 0/1	82 0/0
82 0/5	1272A 82 0/4	82 0/7
82 0/4	1266A 1265A 82 0/3	82 0/2

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

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