

LEGEND

- CENOZOIC**
- QUATERNARY**
PLEISTOCENE AND RECENT
 Qd Till, alluvium, colluvium; gravel, sand, silt
- JURASSIC AND (?) CRETACEOUS**
 Jk KOOTENAY FORMATION: grey and black, carbonaceous and limonitic sandstone, grey and black siltstone; black carbonaceous mudstone and shale; coal
- JURASSIC**
FERNIE GROUP
 J Dark grey to black shale; dark grey siltstone and sandstone; dark grey, platy, silty, argillaceous limestone; brown, limonitic, quartz sandstone
- TRIASSIC**
 Spray River Group (1 km - 1 mi)
 Tw 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
 PPr Light grey quartz sandstone, dolomitic sandstone, silty dolomite; chert
- MISSISSIPPIAN**
 Rundle Group (Mi - Mt)
 Me ETHERINGTON FORMATION: light grey limestone, cherty limestone and calcarenitic limestone; dolomite; cherty dolomite; green and red shale; siltstone; breccia
- PALEOZOIC**
- MOUNT HEAD FORMATION**
 Mm Upper part: dense dark grey and black limestone, argillaceous limestone, and dolomite, silty dolomite
 Mm Lower part: light grey finely crystalline limestone, calcarenitic limestone, and cherty and silty dolomite
- LIVINGSTONE FORMATION**
 Ml TURNER VALLEY FORMATION: light grey skeletal calcarenite and calcarenitic limestone; cherty limestone; dolomite
 Ml SHUNDA FORMATION: light to dark grey dense limestone, calcarenitic limestone, and cherty limestone
 Ml PEKISKO FORMATION: light grey skeletal calcarenite, calcarenitic limestone, and brownish grey argillaceous dolomite
 Ml 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
 Ml Lower part: dark grey and brownish grey shale and calcareous shale; brown argillaceous siltstone, argillaceous and cherty limestone
- DEVONIAN**
UPPER DEVONIAN
 Dpa PALLISER FORMATION: thickly bedded and massive, mottled dolomitic limestone, and breccia
 Dax ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone, light grey dolomite, and breccia
 Dsx FAIRHOLME GROUP (Dcn - Dsx)
 Dcn 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 (Yahandina Formation) locally at base
- CAMBRIAN AND ORDOVICIAN**
 COp SURVEY PEAK FORMATION: interbedded grey calcareous shale and grey limestone (partly dense, partly fragmental, and partly silty masses); minor chert; basal grey to olive calcareous shales weathering pale greenish grey; minor limestone (mainly flat-pebble conglomerate) and siltstone
- CAMBRIAN**
UPPER CAMBRIAN
 Cm 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
 Cll 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
- MIDDLE AND UPPER CAMBRIAN**
 Cwf WATERFOWL FORMATION: limestone, mainly dense with dolomite mottling and laminae, partly silty and sandy; minor fragmental and oolitic limestone; dolomitized equivalents
- MIDDLE CAMBRIAN**
 Car ARCTOMYS FORMATION: interbedded purple-red, green, and grey shale, and yellow dolomitic siltstone; minor grey to yellow dolomite; mud cracks, ripple marks, and salt-crystal casts
 Cpk PIKA FORMATION: dense grey limestone, flaggy and thin-bedded, with partings and mottling of dense dolomite; limestone flat-pebble conglomerate; oolitic; dolomitized equivalents; minor shale 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, partly oolitic; minor siltstone
 Cca CATHEDRAL FORMATION: limestone, predominantly dense, dolomite-mottled, massive, dolomitized equivalents
 Cmw MOUNT WHYTE FORMATION: interbedded grey to green shale and grey dense thin-bedded limestone with dolomite partings and mottlings (occurs in structure sections only)
- MIDDLE (?) AND LOWER CAMBRIAN**
GOG GROUP
 Cgg Quartz sandstone; siltstone; shale (occurs in structure sections only)
- LYNX GROUP**
 Clx LYNX GROUP (undivided)

Note A: undifferentiated Eldon, Pika, Arctomys, Waterfowl, Sullivan, Bison Creek and Mistaya formations
 Note B: undifferentiated Rundle and Rocky Mountain groups

- Geological boundary (approximate, assumed)
- Geological boundary (assumed projection under cover of younger deposits)
- Bedding, tops known (inclined, vertical, overturned)
- Bedding, tops unknown (inclined, vertical)
- Form lines (occur in structure sections only)
- Fault, genetic type unknown (approximate, assumed)
- Fault (assumed projection under cover of younger deposits)
- Thrust fault (teeth on upthrust side; defined, approximate, assumed)
- Thrust fault (assumed projection under cover of younger deposits)
- Anticline (trace of axial plane, defined, approximate)
- Syncline (trace of axial plane, defined, approximate)
- Anticline, syncline (overturned)
- Fossil locality
- Stratigraphic section, locus of measurement (numbers refer to internal cataloguing system)
- studied by: J.D. Aitken . AC R.W. MacQueen . MQ H.R. Belyea and D.J. McLaren . MD

INDEX TO FOSSIL LOCALITIES BY GSC CATALOGUE NUMBER

F1	60991-60994, 66095-66400, 66170-66173, 74091-74092
F2	62045-62064, 74110-74133
F3	57774
F4	62101-62110
F5	62073-62099, 74086-74090
F6	62037-62044, 66214-66226

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, G. B. Leach, E. W. Mountjoy and R. A. Price (1964-1967); ground observations by E. W. Mountjoy and D. K. Norris (1956) and published geological maps

Geological compilation by R. A. Price

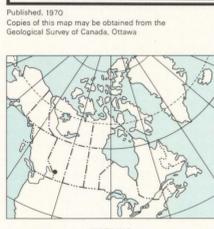
Geological cartography by the Geological Survey of Canada

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

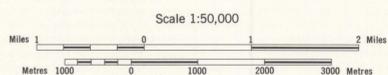
Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1969, 22°58' East decreasing 3.4' annually

Elevations in feet above mean sea-level



MAP 1265A
 GEOLOGY
 CANMORE
 (EAST HALF)
 WEST OF FIFTH MERIDIAN
 ALBERTA



82 9/3	82 9/4	82 9/5
1272A	1271A	
82 9/4	82 9/3	82 9/2
1266A	1265A	
82 1/3	82 1/4	82 1/5

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

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