

Sections along lines A-B, C-D

Note 1. Numbers on wells in sections identifies position of wells on map.  
Note 2. Contacts in cross sections are approximate or assumed.

LEGEND

- CRETACEOUS**
- UPPER CRETACEOUS**
- 25 BRAZIAN FORMATION: massive, greenish grey and grey, feldspathic sandstone; greenish grey and grey siltstone; locally shaly green and grey mudstone; local pebbly sandstone and conglomerate; minor coal and bentonite
- 24 ALBERTA GROUP (22-24)  
WAPITAN FORMATION: silty, dark grey, platy to rubbly shale and calcareous shale, commonly with platy, laminated siltstone layers; concretionary shale and mudstone; minor argillaceous sandstone; minor pebble layers and bentonite seams
- 23 CARDIUM FORMATION: very fine to fine-grained, grey sandstone; grey to dark grey, argillaceous, siltstone and silty shale (locally concretionary); local conglomerate
- 22 BLACKSTONE FORMATION: dark grey shale, including silty shale, rubbly shale, calcareous shale and minor concretionary shale; grey to dark grey siltstone; minor sandstone, bentonite seams and pebble layers
- LOWER CRETACEOUS**
- 21 BLAIRMORE GROUP (20, 21)  
BEAVER MINES FORMATION: massive, fine- to coarse-grained greenish grey, feldspathic sandstone, siltstone and rubbly mudstone; minor grey and black shale; local conglomerate and pebbly sandstone
- 20 LOWER BLAIRMORE GROUP  
Grey siltstone and sandstone, commonly calcareous, locally limonitic; grey and black, locally carbonaceous shale; minor coal seams and limestone. Includes light grey conglomerate, pebbly sandstone and sandstone of the Cadomin Formation at the base
- LOWER CRETACEOUS AND JURASSIC**
- 19 KOOTENAY FORMATION: grey to black, commonly carbonaceous shale; grey to black sandstone, commonly limonitic and carbonaceous
- JURASSIC**
- 18 FERNIE GROUP (17, 18)  
UPPER MEMBERS: dark grey to black shale; dark grey siltstone and sandstone; minor belemnite beds
- 17 NORDEGG MEMBER: very dark grey, slightly carbonaceous, platy, cherty, limestone and oolitic limestone; dark grey to black chert; minor dark brownish grey shale; minor sandstone at base
- TRIASSIC**
- 16 SULPHUR MOUNTAIN FORMATION: platy, grey and brown dolomitic siltstone
- PENNSYLVANIAN AND (?) PERMIAN**
- 15 ROCKY MOUNTAIN QUARTZITE: fine- to medium-grained, grey and brownish grey, quartz sandstone and dolomitic sandstone; local chert breccia
- MISSISSIPPIAN**
- 14 RUNDLE GROUP (12-14)  
ETHERINGTON FORMATION (Above McConnell thrust only): very fine grained, brown, grey and yellow dolomites, commonly cherty; scattered beds of chert; minor sandstone. local mud cracks
- 13 TURNER VALLEY AND MOUNT HEAD FORMATIONS: coarse-grained, commonly crinoidal, chert-forming limestones and dolomitic limestone, minor calcarenite and oolite in the Turner Valley Formation; grey and brown finely crystalline to dense dolomites; minor dolomitic limestones, scattered grey to black chert lenses and rare sandstone beds in the Mount Head Formation
- 12 PEKISKO AND SHUNDA FORMATIONS: light grey weathering, coarse-grained, chert-forming, crinoidal limestones, calcarenites, oolites and local pisolites; fine-grained, brownish grey dolomite zones and minor chert in the Pekisko Formation; finely crystalline to dense yellow-brown, recessive dolomites, vuggy dolomite breccias (collapse structures) and minor shaly dolomite in the Shunda Formation
- 11 BANFF FORMATION: platy to thin-bedded silty and argillaceous limestone and calcareous siltstone; minor black chert layers; crinoidal limestone and dolomite in upper part; includes minor black shales of the Eskelaw Formation at the base
- DEVONIAN**
- 10 PALLISER FORMATION: massive, grey-brown dolomite; mottled limestone-dolomite; fossiliferous grey limestone at the top
- 9 ALEXO FORMATION (Above McConnell thrust only): brown and grey dolomites, locally silty and calcareous, commonly laminated; dolomite breccia and conglomerate; minor greenish siltstone
- 8 SASSENACH FORMATION (Below McConnell thrust): fine-grained yellowish grey, quartz sandstone and dolomitic sandstone
- 7 FAIRHOLME GROUP (5-7)  
MOUNT HAWK FORMATION: fine-grained to dense, grey limestone and argillaceous limestone
- 6 SOUTHERN FORMATION: massive to thick-bedded, light grey, fine to coarsely crystalline saccharoidal dolomite, local medium to dark brownish grey dolomite
- 5 CABIN FORMATION: dark brownish grey and grey, medium- to coarse-crystalline dolomite, with *Amphipora* and stromatoporeid beds; dark grey limestone and minor breccia occur in the lower part; includes thin-bedded dolomite and conglomerate of the Yahatinda Formation at the base
- CAMBRIAN**
- UPPER CAMBRIAN
- 4 LYNX FORMATION: dolomite, silty dolomite and dolomitic siltstone; minor shale, calcarenite, oolite and chert
- MIDDLE CAMBRIAN
- 3 ARCTOMYS FORMATION: recessive, platy, dolomitic siltstone and shale; shallow water and desiccation structures; minor evaporitic breccia
- 2 PIKA FORMATION: thin-bedded, commonly banded, brown and grey dolomitic siltstone and limestone; silty dolomite; flat-pebble conglomerate; calcarenite and oolite
- 1 CAMBRIAN UNDIVIDED (Structure sections only)

- Geological boundary (defined, approximate, assumed).....
- Bedding, top known (horizontal, inclined, vertical, overturned).....
- Bedding, top unknown (inclined, vertical).....
- Fault (approximate, assumed).....
- Thrust fault (teeth in direction of dip; defined, approximate, assumed).....
- Anticline (defined, approximate).....
- Syncline (defined, approximate).....
- Anticline, overturned (defined).....
- Abandoned well.....
- Line of section.....

Geology by N. C. Ollerenshaw, 1964

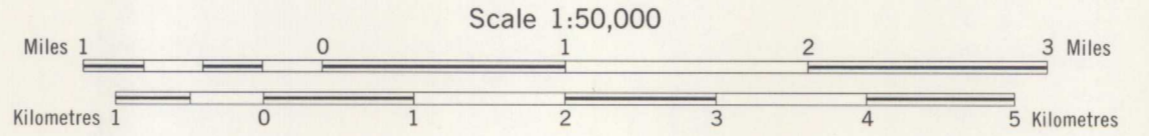
To accompany Paper 68-24, by N. C. Ollerenshaw

Geological cartography by the Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1968

- Road, all weather.....
- Other roads.....
- Bulldozed track or seismic line.....
- Cut line or trail.....
- Marsh.....
- Contours (interval 100 feet).....



MAP 8-1968  
PAPER 68-24  
GEOLOGY  
LIMESTONE MOUNTAIN  
WEST OF FIFTH MERIDIAN  
ALBERTA



Base-map cartography by the Institute of Sedimentary and Petroleum Geology from unpublished map at 1/50,000 scale by the Surveys and Mapping Branch, 1967  
Approximate magnetic declination 1968, 22° 34' East, decreasing 3.5' annually

MAP 8-1968  
LIMESTONE MOUNTAIN  
ALBERTA  
83 O 14 W