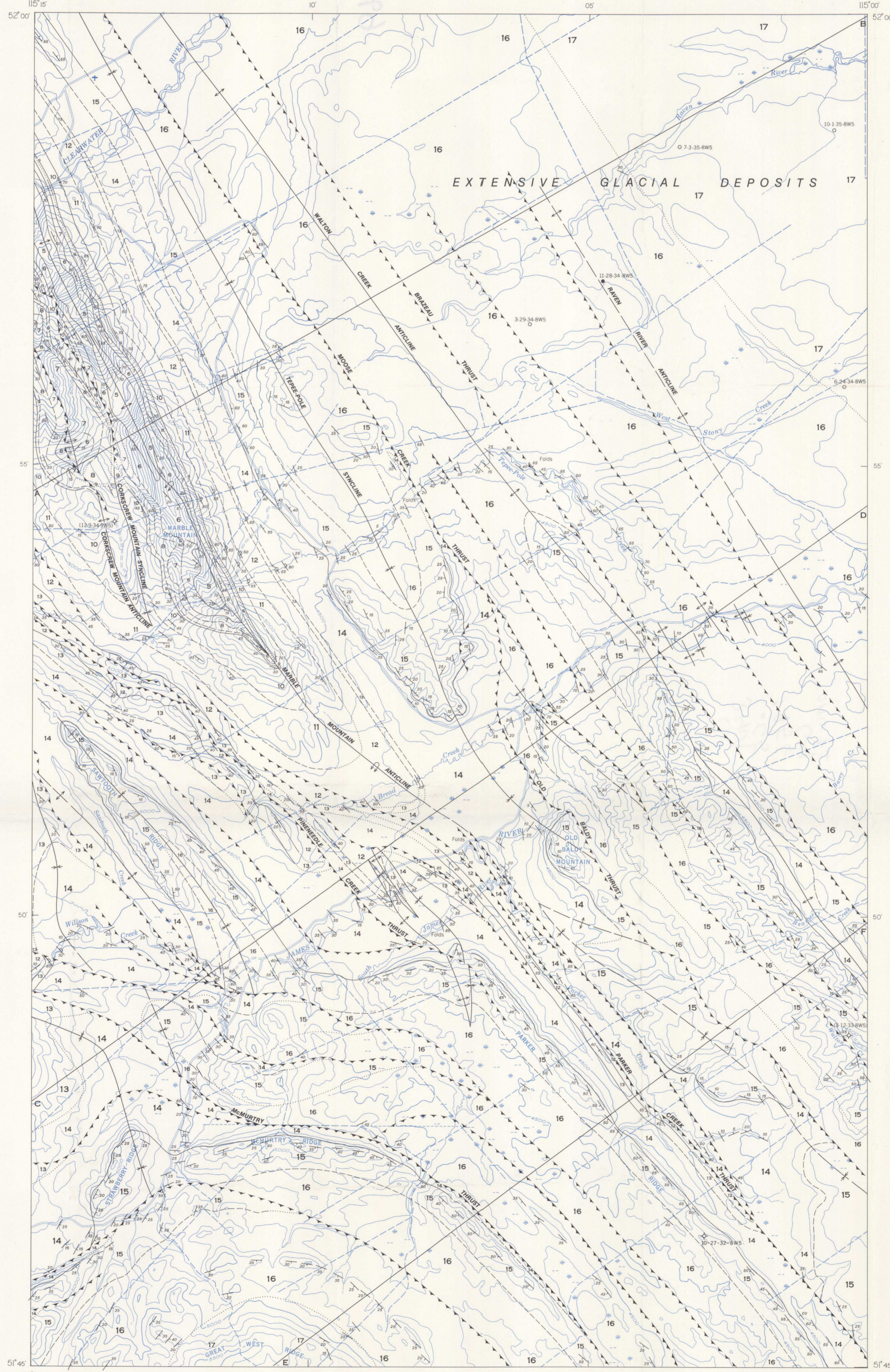


PRELIMINARY SERIES



- LEGEND
- CENOZOIC**
- TERTIARY**
- PALEOCENE**
- 17 PASKAPOO FORMATION: flaggy to shaly, yellowish brown weathering, feldspathic sandstone, siltstone and rubby mudstone; minor bentonite and rare coal (non-marine)
- CRETACEOUS**
- 16 UPPER BRAZEAU FORMATION: flaggy to shaly, grey and minor greenish grey, feldspathic sandstone; greenish grey and grey siltstone and rubby mudstone; minor bentonite and rare coal (non-marine)
- 15 LOWER BRAZEAU FORMATION: flaggy to shaly, greenish grey and grey feldspathic sandstone; greenish grey and grey siltstone and rubby mudstone; local pebbly sandstone and pebble-conglomerate (non-marine)
- ALBERTA GROUP**
- 14 WAPIAH FORMATION: silty, dark grey, platy to rubby shale and calcareous shale, commonly with platy, laminated siltstone and sandstone layers; concretionary shale and mudstone; minor argillaceous sandstone; minor pebbly layers and bentonite seams (marine)
- 13 CARDIUM FORMATION: very fine- to fine-grained, grey sandstone; grey to dark grey, argillaceous siltstone and silty shale (locally concretionary); local conglomerate (marine)
- 12 BLACKSTONE FORMATION: dark grey shale, including silty shale, rubby shale, calcareous shale and minor concretionary shale; grey to dark grey siltstone; minor sandstone, bentonite seams and pebbly layers (marine)
- LOWER CRETACEOUS**
- BLAIRMORE GROUP**
- 11 BEAVER MINES FORMATION: flaggy to shaly, greenish grey and grey, feldspathic sandstone, platy siltstone and rubby mudstone; minor shale; minor pebbly sandstone and conglomerate (non-marine)
- 10 LOWER BLAIRMORE: grey siltstone and sandstone, commonly calcareous, locally limonitic; grey and black, locally carbonaceous shale; minor coal seams and limestone. Includes conglomerate, pebbly sandstone and sandstone of the Cardium Formation at the base (non-marine)
- JURASSIC**
- FERRIS GROUP**
- 9 UPPER MEMBERS: dark grey to black shale; minor dark grey siltstone and sandstone (marine)
- 8 NORDEGG MEMBER: very dark grey, slightly carbonaceous, platy, cherty limestone and oolitic limestone; dark grey to black chert; minor dark brownish grey shale and sandstone at the base. The basal sandstone may belong to the Pennsylvanian and (?) Permian Rocky Mountain Group (marine)
- MISSISSIPPIAN**
- RENDELE GROUP**
- 7 TURNER VALLEY - MT. HEAD FORMATIONS: coarse grained, commonly crinoidal, cliff-forming limestone and dolomite limestone, minor calcarenite and oolite in the Turner Valley Formation; grey and brown, finely crystalline to dense dolomite, minor dolomitic limestone, scattered chert lenses and rare sandstone beds in the Mount Head Formation (marine)
- 6 PEKIKO-SHUNDA FORMATIONS: light grey weathering, coarse grained, oolitic, cliff-forming, crinoidal limestone; calcarenite, oolite and local psalmites; fine grained, brownish grey dolomite units and minor chert in the Pekiko Formation; finely crystalline to dense, yellow-brown, recessive dolomite; waxy dolomite breccias (oolite structures) and minor shaly dolomite in the Shunda Formation (marine)
- 5 RANFF FORMATION: platy to thin bedded silty and argillaceous limestone and calcareous siltstone; minor black chert layers; finely crystalline dolomite and minor crinoidal limestone in the upper part (marine)
- PALEOZOIC**
- SUB-SURFACE ONLY (STRUCTURE CROSS SECTIONS)**
- DEVONIAN**
- 4 PALLISER FORMATION: massive, grey-brown dolomite; mottled limestone-dolomite; fossiliferous grey limestone at the top (marine)
- 3 SASSECH FORMATION: dolomite, siltstone and sandstone (marine)
- FABRIOLME GROUP (UNDIVIDED):**
- 2 Dolomite, limestone and shale (marine)
- CAMBRIAN (UNDIVIDED):**
- 1 Dolomite, limestone and minor shale (marine)

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

Geology by N.C. Ollerenshaw, 1965

Geological cartography by the Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1969 from compiled map "Limestone Mountains, east half" at 1/750,000 scale by the Surveys and Mapping Branch, 1969 (with minor modifications by N.C. Ollerenshaw, 1969)

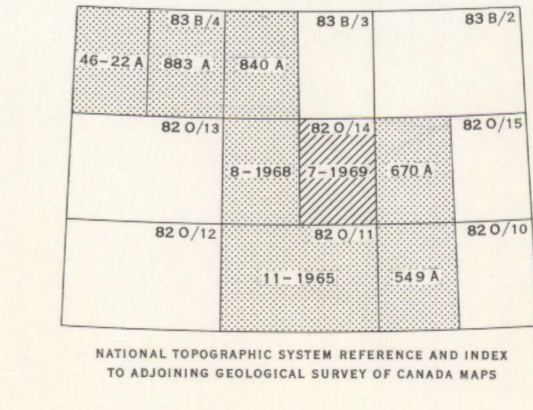
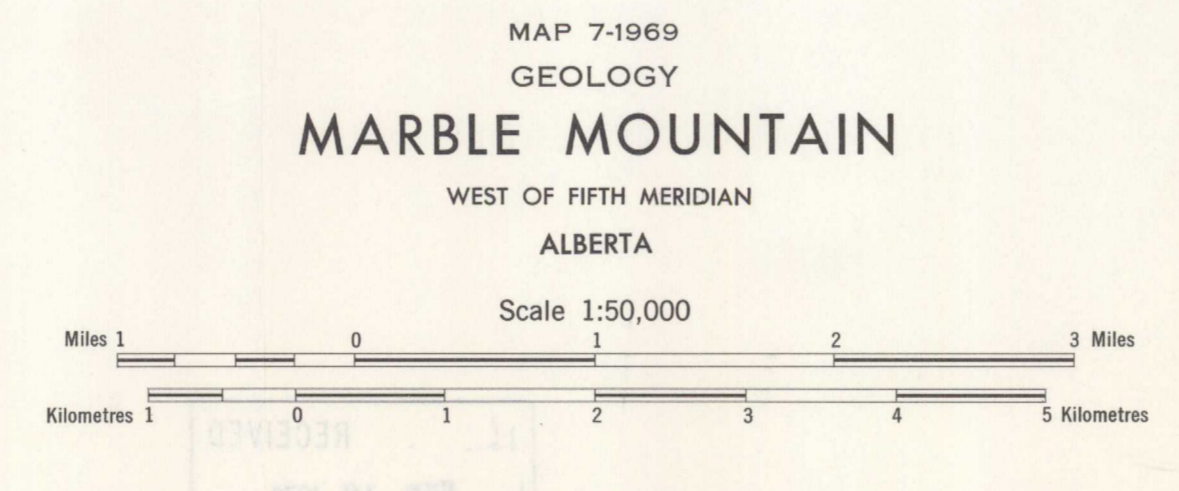
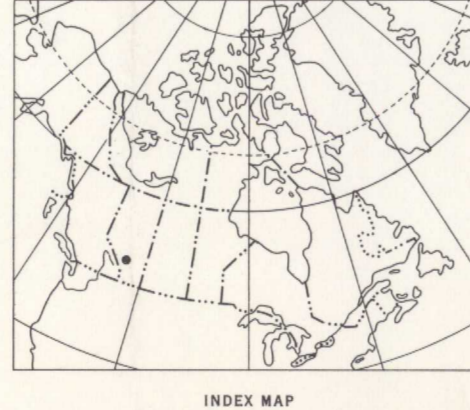
Approximate magnetic declination, 22°26' East, decreasing 3.5' annually

Note: Contacts in cross-sections are approximate or assumed

Published 1970
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Printed by the Surveys and Mapping Branch

ALTA. MARBLE MOUNTAIN
1:50,000
Prelim. Series Map 7-1969
C.3.



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