

LEGEND

- QUATERNARY**
- POSTGLACIAL DEPOSITS**
- 15 Alluvium (modern stream deposits): gravel, sand, silt, clay, slump material; includes local exposures of bedrock and till; 15a, mostly fine; 15b, mostly coarse
 - 14 Wind deposits; includes blow-out areas: sand, silt
- LATE GLACIAL AND EARLY POSTGLACIAL DEPOSITS**
- 12, 13 Lake deposits (locally includes minor outwash or till):
13. Fine: silt and clay, commonly varved; 13a, mostly clay
12. Coarse: sand and silt; 12a, surface locally modified by wind into subdued dunes
 - 10, 11 Alluvium (in glacial spillways, early postglacial terraces, or deltas); includes local exposures of bedrock and till;
11. Coarse: sand, gravel, minor silt, clay; 11a, chiefly gravel; 11b, surface extensively modified by flood erosion
10. Fine: silt, clay, minor sand, gravel
- GLACIAL DEPOSITS (Laurentide)**
- 9 Outwash, inwash, and ice-contact deposits:
9a, outwash, fine: sand, silt, minor gravel, generally forming plain or pitted plain; locally includes undifferentiated lake deposits;
9b, outwash, coarse: gravel, sand, commonly forming knob and kettle topography; 9c, inwash: mostly sand and silt; locally includes undifferentiated lake deposits; 9d, esker deposits: sand, gravel, silt (large deposits only, small esker ridges shown elsewhere by symbol); 9e, kame deposits: sand, gravel
 - 8 Stagnant ice deposits: till, minor silt, clay, sand, gravel;
8a, moraine plateau, with local rim ridges of till;
8b, ice-block depression, with local rim ridge of till, gravel, sand, silt
 - 6, 7 Hummocky moraine: till, minor amounts of water-sorted material; knob and kettle topography with many stagnant ice features; locally includes some undifferentiated recessional moraine
7. Moraine topography strongly developed; 7a, modified by lake erosion or deposition; 7b, moraine topography moderately or weakly developed; 6a, modified by lake erosion or deposition
 - 4, 5 Recessional moraine: till; 5. Moraine topography strongly developed; 5a, modified by lake erosion or deposition;
4. Moraine topography moderately or weakly developed; 4a, modified by lake erosion or deposition
 - 3 Mixed contorted deposits; generally ridged topography; mostly bedrock and till, locally other deposits, that have been folded and contorted by glaciers; 3a, modified by lake erosion or deposition
 - 2 Ground moraine: till; undulating to gently rolling;
2a, gravelly phase, contains much "preglacial" gravel;
2b, modified by stream or lake erosion or deposition
- TERTIARY AND EARLY QUATERNARY**
- PREGLACIAL DEPOSITS**
- 1 Alluvium: gravel, sand; includes "Saskatchewan gravel and sand"
 - R Bedrock (Cretaceous and Tertiary); exposed or locally covered by thin slump, alluvium, or drift: shale, sandstone, coal; Ra, exposed by postglacial erosion; Rb, area of little or no Quaternary deposition

Geological boundary (defined, approximate, assumed)

Esker ridge, direction of stream flow defined

Geology, west half, by A. MacS. Stalker, 1952, 1953, 1954;
east half, by B. G. Craig, 1951, 1952

To accompany GSC Memoir 370 by A. MacS. Stalker 1972

Geological cartography by the Geological Survey of Canada

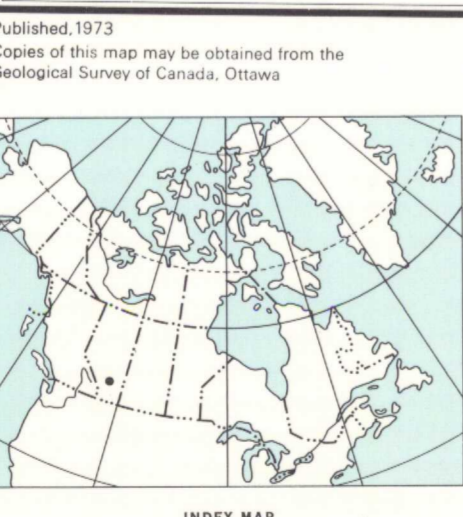
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map from map published at same scale by the Surveys and Mapping Branch, 1957

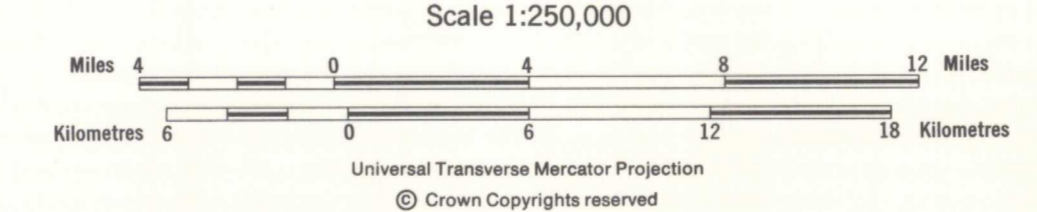
Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario, K1A 0E9

Magnetic declination 1972, varies from 21°31' easterly at centre of west edge to 20°57' easterly at centre of east edge.
Mean annual change - 2.8'

Elevations in feet above mean sea-level



MAP 1336A
SURFICIAL GEOLOGY
DRUMHELLER
WEST OF FOURTH MERIDIAN
ALBERTA



83 B	83 A	73 D
82-O	82 P	72 M
82 J	82-I	72 L

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MAP 1336A
DRUMHELLER
ALBERTA

612 CAG 1900C
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1336A

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