

LEGEND

This legend is common to maps 1937A, 1938A, 1939A, 1940A, and 1941A. Coloured legend blocks indicate map units that appear on this map. Not all map symbols shown in the legend necessarily appear on this map.

- SURFICIAL DEPOSITS**
QUATERNARY
- POSTGLACIAL**
- O ORGANIC DEPOSITS:** organic matter; 1 to 2 m thick; formed by the accumulation of vegetation in poorly drained depressions (swamps and bogs); usually forms flat terrain; may contain shallow permafrost; in places forms mounds and plateaus; Oh, hummocky topography
 - C COLLUVIAL DEPOSITS:** massive diamicton, usually at the foot of a slope or cliff and brought there chiefly by gravity
 - A FLUVIAL DEPOSITS:** alluvium; gravel and sand >1 m thick; A, floodplains and mantling valley floors; Ai, meander scars and point bars; At, terraces along valley sides; Av, alluvial fans; Av, thin discontinuous veneer
 - L1 LACUSTRINE DEPOSITS:** sand, silt, and minor clay deposited in a former lake; >1 m thick; generally overlain by organic deposits in lowlands; level topography; L1r, sandy strandlines; L1d, deltaic sediments, sequences of stratified sand, silt, clay, and gravel; L1h, hummocky topography
 - E EOLIAN DEPOSITS:** medium to fine sand; >2 m thick; in sheet or dune form; derived from deltaic or glaciolacustrine deposits; in some areas, eolian sediments are thin or absent between dunes; Er, ridged topography; Eh, hummocky topography
 - Ev** Eolian deposits forming a thin discontinuous veneer; <1 m thick
- POSTGLACIAL OR LATE WISCONSINAN PROGLACIAL AND GLACIAL ENVIRONMENTS**
- L** **GLACIOLACUSTRINE DEPOSITS:** sand, silt, minor clay or gravel, deposited in lakes formed by ice-dammed valleys or along the margin of the retreating Laurentide Ice Sheet
 - Lh** Sediment >1 m thick; may contain rhythmic bedding; usually forms flat topography; Lh, hummocky topography in the west; Ld, deltaic sediments; Ldt, sequences of stratified sand, silt, clay, and gravel that form terraces; Lr, strandlines
 - Lv** Sediment forming a thin discontinuous veneer; <1 m thick; Lvh, hummocky topography
 - G** **GLACIOFLUVIAL DEPOSITS:** gravel, sand, minor sand diamicton; 1 to 40 m thick; deposited behind, at, or in front of the ice margin
 - Gv** G, braided outwash deposited in front of the ice margin; Gv, level outwash terraces; Gd, braided outwash deltas; Gdt, delta terraces; Gh, hummocky topography
 - Gv** Outwash forming a thin, discontinuous veneer; <1 m thick
 - Gi** Ice-contact stratified drift; deposited behind or at the ice margin; topography is undulating, irregular, or ridged
 - T** **TILL:** diamicton deposited directly by glacial ice; matrix is sandy to silty and contains striated clasts
 - T** Till blanket; >1 m thick; forming undulating topography that may be fluted or drumlinized in places
 - Tv** Till veneer; <1 m thick and discontinuous; underlying bedrock topography is discernible
- BEDROCK PRE-QUATERNARY**
- R1** Devonian limestone, dolomite, gypsum
 - R** Precambrian granite, gneiss, and metasedimentary rocks; forming bare, hilly outcrops

- Geological boundary (defined, approximate)
- Organic deposits (swamp or bog)
- Sand dune
- Salt flat; saline groundwater discharge
- Strandline
- Abandoned or underfit channel (large, small and direction of flow inferred, small and direction of flow unknown)
- Escarpment
- Karst area
- Kettle
- Esker (direction of flow inferred, unknown)
- DeGeer moraines
- End moraine
- Drumlin or fluting parallel to ice flow (undifferentiated)
- Crug and tail (fill tail)
- Ice molded bedrock form (roche moutonnée, rock drumlin)
- Striae
- Depressional lineament in bedrock
- Small bedrock outcrop
- Gravel pit
- Quarry

Geology by J.M. Bednarski (1992-1994)

Digital cartography by D. Nunez, General Dynamic Consulting; T. West and J. Pratt, Geoscience Information Division

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

Digital base map: from data compiled by Geomatics Canada, modified by the Geoscience Information Division

Magnetic declination 1999, 20°49' E, decreasing 13.4' annually. Readings vary from 20°28' E in the SE corner to 21°31' E in the NW corner of the map

Elevations in feet above mean sea level

Contour interval of 50 feet except, west and south of 111°30' and 59°45' respectively, where contour interval is 100 feet

NOTE: In areas where the surficial cover forms a complex mosaic, the area is coloured according to the predominant unit and labelled with hyphenated letters in descending order of cover



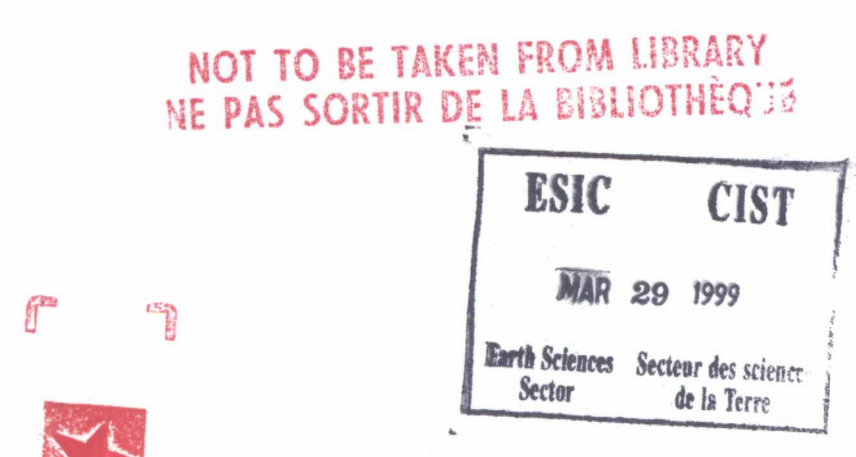
85 41	75 04	75 09	75 02	75 01	75 04
84 1916	74 1813	74 1814	74 1815	74 1816	74 1817
1937A 1938A					
84 1919	74 1812	74 1811	74 1810	74 1809	74 1812
84 1918	74 1805	74 1806	74 1807	74 1808	74 1805
1939A 1940A					
84 1911	74 1804	74 1803	74 1802	74 1801	74 1804
84 1915	74 1813	74 1814	74 1815	74 1816	74 1813
1941A					
84 1918	74 1812	74 1811	74 1810	74 1809	74 1812

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

MAP 1937A
SURFICIAL GEOLOGY
DOG RIVER
ALBERTA
Scale 1:100 000 - Échelle 1/100 000
Kilometres 0 2 4 6 8 Kilomètres
Universal Transverse Mercator Projection
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Projection transversale universelle de Mercator
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1937A