

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 600-0000 (toll-free), 1-800-953-6767, 101-0000 (toll-free), 1-800-953-6767.

Canada

LEGEND

This legend is common to maps 1937A, 1938A, 1938A, 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

NONGLACIAL ENVIRONMENT

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

COLLUVIAL DEPOSITS: massive diamicton, usually at the foot of a slope or cliff and brought there chiefly by gravity

FLUVIAL DEPOSITS: alluvium; gravel and sand >1 m thick; A, floodplains and mantling valley floors; Al, meander scars and point bars; At, terraces along valley sides; Ai, alluvial fans; Av, thin discontinuous veneer

LACUSTRINE DEPOSITS: sand, silt, and minor clay deposited in a former lake; >1 m thick; generally overlain by organic deposits in lowlands; level topography; L1, sandy stratified; L1d, deltaic sediments, sequences of stratified sand, silt, clay, and gravel; L1h, hummocky topography

NONGLACIAL AND PROGLACIAL ENVIRONMENTS

EOLIAN DEPOSITS: medium to fine sand; >2 m thick; in sheet or dune form; derived from deltas or glaciolacustrine deposits; in some areas, eolian sediments are thin or absent between dunes; Ei, ridged topography; Eh, hummocky topography

Eolian deposits forming a thin discontinuous veneer; <1 m thick

POSTGLACIAL OR LATE WISCONSINAN PROGLACIAL AND GLACIAL ENVIRONMENTS

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

Sediment >1 m thick; may contain rhythmic bedding; usually forms flat topography; Lh, hummocky topography in the west; Ld, deltaic sediments; Ld1, sequences of stratified sand, silt, clay, and gravel that form terraces; Lr, strandlines

Sediment forming a thin discontinuous veneer; <1 m thick; Lvh, hummocky topography

GLACIOFLUVIAL DEPOSITS: gravel, sand, minor sand diamicton; 1 to 40 m thick; deposited behind, at, or in front of the ice margin

G, braided outwash deposited in front of the ice margin; Gt, level outwash terraces; Gd, braided outwash deltas; Gd1, delta terraces; Gv, hummocky topography

Outwash forming a thin, discontinuous veneer; <1 m thick

Ice-contact stratified drift; deposited behind or at the ice margin; topography is undulating, irregular, or ridged

TILL: diamicton deposited directly by glacial ice; matrix is sandy to silty and contains striated clasts

Till blanket; >1 m thick; forming undulating topography that may be fluted or drumlinized in places

Till veneer; <1 m thick and discontinuous; underlying bedrock topography is discernable

BEDROCK PRE-QUATERNARY

R1, Devonian limestone, dolomite, gypsum

R, Precambrian granite, gneiss, and metasedimentary rocks; forming bare, hilly outcrops

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

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

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

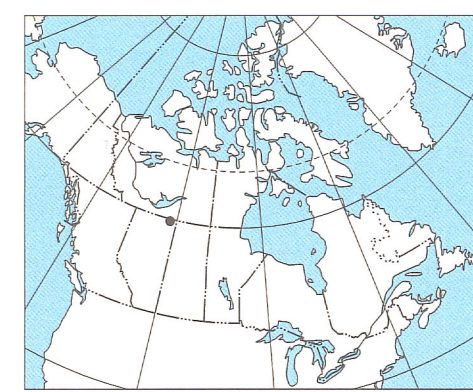
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

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



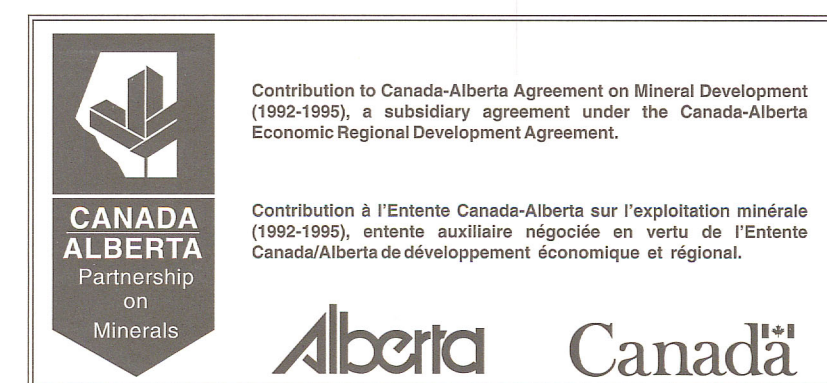
LOCATION MAP

85 A1	75 D4	75 D5	75 D6	75 D7	75 G4
84 P16	74 M13	74 M14	74 M15	74 M16	74 M17
84 P18	74 M17	74 M18	74 M19	74 M20	74 M21
84 P19	74 M21	74 M22	74 M23	74 M24	74 M25
84 P20	74 M25	74 M26	74 M27	74 M28	74 M29
84 P21	74 M29	74 M30	74 M31	74 M32	74 M33
84 U16	74 L13	74 L14	74 L15	74 L16	74 L17
84 U18	74 L18	74 L19	74 L20	74 L21	74 L22

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

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