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LEGEND

SURFICIAL GEOLOGY

HERSCHEL ISLAND-AKLAVIK

parts of 107B, 117A, 117C, 117D

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1969

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GEOLOGICAL SURVEY  
OTTAWA

LEGEND (Surficial geology; parts of 107B, 117A, 117C, and 117D)

RECENT

- 1 Modern floodplain deposits (lacking vegetation); gravel and sand
- 2 Fluvial deposits (includes low gradient alluvial-fans): gravel and sand (2a-cover of organic deposits more than 3 feet thick)
- 3 Marine beach deposits: gravel

RECENT AND PLEISTOCENE

- 4 Terraced fluvial deposits: gravel and sand; partly covered by silt (4a-cover of organic deposits more than 3 feet thick)
- 5 Alluvial-fan deposits: silt and sand, minor gravel
- 6 Alluvium: fine sand, silt, clay, organic detritus, and peat; includes Mackenzie Delta
- 7 Lacustrine and bog deposits: clay, silt, sand, muck, and peat
- 8 Undifferentiated surficial deposits: mainly till and gravel of map-units 4, 9, and 10.

9a,b,c

Morainal deposits

- 9a - Till; minor glaciofluvial gravel and sand; includes small undifferentiated areas of lacustrine and bog deposits (map-unit 5)
- 9b - Glacially deformed fluvial and marine clay, silt, sand and gravel; locally covered by till, glaciofluvial gravel and sand, and colluvium
- 9c - Till thinly mantling bedrock (thickness generally less than 10 feet); includes undifferentiated areas of colluvium and bedrock

- 10 Glaciofluvial deposits: gravel, minor sand; mainly as kame terraces and outwash (10a-cover of organic deposits more than 3 feet thick)
- 11 Silt; generally with a cover of organic deposits more than 3 feet thick

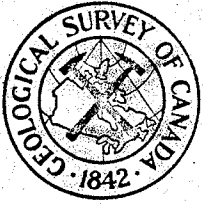
PLEISTOCENE AND EARLIER

- 12, 13 Pediment: levelled bedrock surface partly covered by unconsolidated deposits
  - 12 - Widespread gravel cover; locally a surface veneer of silt
  - 13 - Bedrock with thin veneer of alluvium and colluvium; minor rock outcrops
- 14 Drumlinized till and fluted bedrock
- 15 Bedrock and colluvium

NOTE:

All map-units except 1 and 3 have a cover of organic deposits (muskeg) of variable thickness up to 3 feet.

- Geological boundary (defined, approximate)
- ..... Limit of geological mapping
- + Kames (gravel)
- ~~~~~ Meltwater channels incised in bedrock
- - - - - Drumlins and drumlinoid ridges
- ||||| Stream-cut escarpment; at least in part in surficial deposits
- - - - - Approximate inland limit of subsurface fluvial and marine silts, clays, sands, and gravels
- A - H Locations of exposures




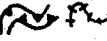
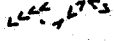
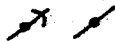






SURFICIAL GEOLOGY LEGEND\*

Map areas 96 E, F and L and 106 I, J, O, P  
District of Mackenzie

- A Alluvium - generally mixed coarse and fine grained sediments - includes floodplains, low terraces, and fans.
- Cx Colluvial Complex - unstratified mixtures of gravel, sand, silt and clay sized particles - includes colluvial blankets, small fans, slope deposits.
- Eo Eolian Deposits - mainly medium to fine grained sand - generally occur as duned blankets.
- To High Terraces and outwash trains - dominantly gravel and sand - consist largely of flat surfaced, stream scrolled areas, raised ten or more feet above present day base levels.
- Tk Kettled Terraces and outwash trains - dominantly gravel and sand - consist of high terraces and outwash trains pocked with kettle holes.
- H Hummocky Gravel - generally gravel and sand - hummocky areas of "ice contact stratified drift".
- M<sub>t</sub> Hummocky Terrain - dominantly glacial till but locally may be "ice contact stratified drift" - areas characterized by "morainal" hummocks.
- Mx Morainal Complex - dominantly glacial till but locally contains "ice contact stratified drift" - areas characterized by "morainal" ridges and hummocks.

\*Areas not designated as a legend unit are largely rock, near surface rock or till plains.

Symbols

- \* Pingo
-  Submergence limit
-  Abandoned or misfit channel
-  Esker
-  Glacial grooving or drumlinoid feature
-  Moraine ridge
-  Sand dune area
-  Escarpment
-  Beach ridge
-  Buried or filled valley
-  Sink hole

all units and symbols do not necessarily appear on each map-sheet

Geology from air photo interpretation supplemented by widely scattered field checks by R.J. Fulton, 1968.