

LEGEND

Notes: some map units and symbols shown in the legend may not appear on this map

SURFICIAL DEPOSITS

QUATERNARY

ALLUVIAL DEPOSITS: stream deposited material within modern active drainage systems. "modern" is defined as the period since retreat of the last glacial limit of glacial ice.

A1: Alluvium: silt, sand, and gravel deposited in channels and on floodplains may include alluvium in terraces which formed as streams cut to present level in glacial and marine sediments.

A2: Deltic sediments: sand, gravel, and boulders deposited where modern streams enter lakes or Hudson Bay.

A3: Alluvium and marine sand or silt, undifferentiated: occurs in flat areas consisting of modern alluvium mixed with silt and sand that was washed from slopes by wave action or deposited in the sea by meltwater streams. R/A3, deposit veneers bedrock or surface comprises 20 to 80% bedrock outcrop.

A4: Alluvium and outwash gravel, undifferentiated: occurs in flat areas in stream valleys or floodplains. Maximum active layer 15 to 25 cm deep. Surface characterized by frost polygons and flow ponds related to vertical ice wedges extending to a depth of 2 to 3 m.

LACUSTRINE DEPOSITS: materials deposited in glacial lakes ponded on the western side of the Keweenaw Ice Divide, and glacial deposits modified by lacustrine processes.

L1: Nearshore sediments: generally well sorted sand, gravel, cobble, or boulders deposited as beaches, bars, spits, and ice-pushed ridges.

MARINE DEPOSITS: materials deposited in the Tyrrell Sea and glacial deposits modified by marine processes.

M1: Deltic sediments: sand, pebbly sand, and gravel deposited in the Tyrrell Sea by glacial or tectonic straits.

M2: Nearshore sediments: generally well sorted sand, gravel, cobble, or boulders deposited as beaches, bars, spits, and ice-pushed ridges. R/M2, deposit veneers bedrock or surface comprises 20 to 80% bedrock outcrop.

M3: Offlap sediments: thin sheet of sand deposited by a migrating shoreline, probably a lag developed by wave reworking of marine clayey sand or silt sand or glacial till.

M4: Offshore sediments: clay-silt and silty sand deposited in a deep water environment may occur anywhere below marine limit but generally occur in major river valleys or valleys with major esters. R/M4, deposit veneers bedrock or surface comprises 20 to 80% bedrock outcrop. M4, prominent striped pattern on airphoto; M4, modified pattern on airphoto.

GLACIOLIMAL DEPOSITS: water-sorted sediments deposited in, around, or near a glacier, largely as a result of meltwater erosion.

G1: Ice-contact stratified drifts: sand and gravel deposited near ice margins in, over, or around ice or in ice tunnels, commonly as eskers and includes related hummocky deposits of uncertain origin.

G2: Outwash: sand, gravel, and silt with terraced, undifferentiated surfaces.

G3: Go: sand and gravel deposited by subglacial meltwater streams in areas above but less than level of proglacial lakes includes 1) sediments deposited between the esker ridge and valleys, commonly over stagnant ice that forms temporary floors; 2) outwash; 3) outwash plains and 4) materials on the floor or at the mouth of meltwater channels.

G4: Go: silt, sand, and fine gravel (mainly fine sediment debouching from the subglacial mouth of an ice tunnel) material settled preferentially in depressions between the esker ridge and valleys.

G5: Disintegration moraine: till, sand, and gravel, undifferentiated: occurs as short ridges or hummocks, probably deposited in holes and crevasses in stagnant ice; ridge orientation may form a reticulate pattern.

TILL DEPOSITS: poorly sorted sediments with distinctive forms deposited directly by glacial till.

T1: Till plain: generally sandy, silty, noncohesive grey till with <2% clay sized particles; includes grey clay-rich red till. T1, prominent striped pattern on airphoto.

T2: Ribbed (R2pm) moraine: generally bouldery till, in places sand and gravel, forming hummocks and ridges in various ridges, generally less than 10 m high and 2 to 3 m wide ridges generally oriented at right angles and form from parallel direction of flow. R/T2, deposit veneers bedrock or surface comprises 20 to 80% bedrock outcrop.

T3: Hummocky till: till without significant boulder cover occurring as hummocks; includes ridges of till that are minor and more or less continuous remnants between subparallel meltwater channels.

T4: Till and marine silt, undifferentiated: till-cored landforms blanketed by marine sediments or marine deposits in depressions among till landforms.

ROCK

PRE-QUATERNARY

P1: Precambrian intrusive igneous and metamorphic rocks, not volcanic rocks, and sedimentary rocks.

P2: Surface comprises more than 80% outcrop. If surface completely covered by glaciolimit.

P3: Surface comprises 20 to 80% outcrop, or bedrock is mantled with an average of less than 1 m of the surficial deposit indicated.

Geological boundary: Small bedrock outcrop; Dugout or fluting (direction of ice flow known, unknown); Drag and tail (direction of ice flow known); Glacial strike (direction of ice movement known, unknown); location of measurement at centre of staff; older striation drawn with broken staff; Lower features related to ice flow but obscured by sedimentation; water-laid deposits, wave reworking, or trees; Trend of ribbed or minor moraine ridges; Decker moraine: straight, approximately 2 m-high and narrow ridges built parallel to an ice front possibly deposited annually by flowing ice submerged in a sea or lake; Hummocky moraine; Esker (direction of flow known, unknown) may be confused with or obscured by nearshore features projected beneath water surfaces where known or inferred; Meltwater channel: steep-sided channel commonly cut in bedrock or till; Limit of marine submergence; Trend of moraine ridges originating as beaches, bars, megaripples, and ice-thoved ridges; Esquimaux: generally in unconsolidated sediments; Area of ridges formed by pack-ice shore; Permanently drained postglacial lake basins may include deposits of silt sediments with up to 15% organic carbon; Turbid lakes: contains continual load of suspended sediment during ice-free periods; (see also above marine limit); Eolian deposits: commonly formed where ice shows or bank failures have disrupted the vegetation mat over alluvial sand; Ratification date.

Geology by J.M. Aylworth, based on airphoto interpretation, 1982-1983

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Colour separation by camera of hand coloured manuscript.

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

Base map, enlarged from 1:250 000 scale, published by the Mapping and Charting Establishment, Department of National Defence in 1966.

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, K1A 0E9.

Mean magnetic declination 1983, 13°52' East, decreasing 23' annually. Readings vary from 13°52' in the SW corner to 12°12' in the NE corner of the map area.

Elevations in feet above mean sea level.

Recommended citation:
 Aylworth, J.M., 1986. Surficial geology, Kamilukwak Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 4-1985, scale 1:125 000.

MAP 4-1985
 SURFICIAL GEOLOGY
KAMILUKWAK LAKE
 DISTRICT OF KEEWATIN
 NORTHWEST TERRITORIES
 Scale 1:125 000
 Kilometres
 Universal Transverse Mercator Projection
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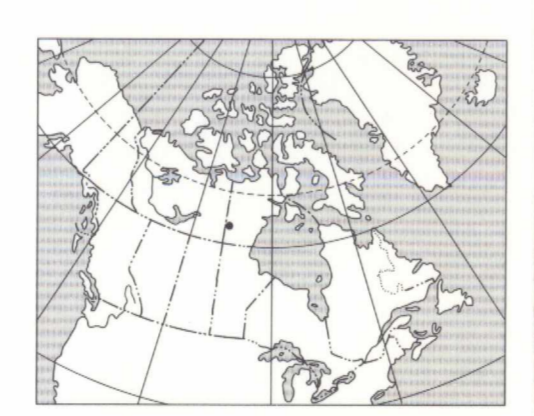
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68 N	68 O	68 P	68 M	68 Q
68 R	68 J	68 I	68 K	68 L
68 S	68 T	68 U	68 V	68 W
68 X	68 Y	68 Z	68 AA	68 AB
68 AC	68 AD	68 AE	68 AF	68 AG
68 AH	68 AI	68 AJ	68 AK	68 AL
68 AM	68 AN	68 AO	68 AP	68 AQ
68 AR	68 AS	68 AT	68 AU	68 AV
68 AW	68 AX	68 AY	68 AZ	68 BA
68 BB	68 BC	68 BD	68 BE	68 BF
68 BG	68 BH	68 BI	68 BJ	68 BK
68 BL	68 BM	68 BN	68 BO	68 BP
68 BQ	68 BR	68 BS	68 BT	68 BU
68 BV	68 BW	68 BX	68 BY	68 BZ
68 CA	68 CB	68 CC	68 CD	68 CE
68 CF	68 CG	68 CH	68 CI	68 CJ
68 CK	68 CL	68 CM	68 CN	68 CO
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68 CZ	68 DA	68 DB	68 DC	68 DD
68 DE	68 DF	68 DG	68 DH	68 DI
68 DJ	68 DK	68 DL	68 DM	68 DN
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68 ED	68 EE	68 EF	68 EG	68 EH
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68 IK	68 IL	68 IM	68 IN	68 IO
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68 IZ	68 JA	68 JB	68 JC	68 JD
68 JE	68 JF	68 JG	68 JH	68 JJ
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68 TS	68 TT	68 TU	68 TV	68 TW
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68 UC	68 UD	68 UE	68 UF	68 UG
68 UH	68 UJ	68 UK	68 UL	68 UM
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MAP 4-1985
 KAMILUKWAK LAKE
 DISTRICT OF KEEWATIN
 NORTHWEST TERRITORIES



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