

**QUATERNARY**

**HOLCENE**

**NONGLACIAL ENVIRONMENT**

- O** Organic deposits, undifferentiated: peat and silt, up to 2 m thick; formed predominantly by the accumulation of vegetative material in bogs; occurs in depressions and along valley bottoms; permafrost is commonly present; may contain small pebbles, ice-wedge polygons and thermokarst collapse structures; small unmapable organic deposits occur in most terrain units.
- Ap** Alluvial fan deposits: gravel to silt, generally are stratified and moderately sorted; 1 to 5 m thick; deposited by modern streams and rivers; in places may be covered by bogs.

**PLEISTOCENE (WISCONSIN GLACIATION)**

**GLACIAL ENVIRONMENT**

- GL** Glaciolacustrine sediments, undifferentiated: silt and sand, cross-stratified to planar bedded; 1 to 8 m thick; deposited into temporary glacier-dammed lakes and ponds; includes deltaic sediments.
- GLA** Glaciolacustrine sediments, undifferentiated: sand, gravel, and minor silt; sorting ranges from good to poor, and stratification from massive or cross-stratified by planar bedded; greater than 1 m thick; deposited by water flowing from or in contact with glacier ice.
- CF1** Subglacial outwash fan sediments: rounded gravel and sand; massive to cross-stratified; probably less than 5 m thick; occurs as broadened fans.
- CF2** Esker sediments: sand, silt, and gravel; in planar, cross-stratified, and massive beds; 1 to 40 m thick; forms ridges with both sharp-crested and flat-topped segments; occurs, flanking aprons and circular rim ridges; deposited at or behind the ice margin; formed subglacially or in a subglacially exposed ice-walled channel; zones of washed rock, small horizontal gravel ridges, isolated same deposits and circular rim ridges associated with this unit are shown by symbols.
- GLACIAL SEDIMENTS (T1 to T4)** Overbank gravel; diameters, slightly stony to stony with silt matrix; 1 to greater than 30 m thick; characteristics strongly influenced by the nature of the local bedrock.
- T1** Mimusky Hill: diameter, from 5 to 30 m thick; forms regular to rolling terrain with a level to 10 m; some areas have abundant small meltwater channels and lag concentrations of boulders in depressions.
- T2** Till veneer: diameter, less than 2 m thick; rock structure is generally visible on outcrops; unit includes patches of bedrock and till blanket.
- T3** Till blanket: diameter, from 2 to 10 m thick; occurs as flat plains mimicking bedrock topography or as drumfields; small rock outcrops in this unit are shown by symbols.

**PRE-QUATERNARY**

**BEDROCK** Archaean granitic, gneissic, metasedimentary and metavolcanic; Proterozoic sedimentary rocks, mafic dykes, and minor younger (Tertiary?) intrusives; they include patches of 18 shades of glaciolacustrine deposits, areas of shattered and frost-heaved rock (disseminated), particularly on metasediments are designated by symbols.

- R1** Sedimentary bedrock: sedimentary rocks.
- R2** Igneous bedrock: volcanic, granitic.
- R3** Metamorphic bedrock: metasedimentary and metavolcanic rocks.

**Other symbols:**

- Washed rock, frost heaved and shattered rock
- Area of meltwater lag scour
- Geological boundary, defined
- Beach crest
- Minor meltwater channel, sense known
- Major moraine ridge
- Cover ridge
- Sense unknown
- Drumhead
- Clag-and-fal
- Fluted bedrock, sense known
- Patterned ground (ice wedge polygons)
- Kame, gravelly transverse ridge
- Slope
- Well defined, ice flow direction known
- Crossed (1 = oldest, 3 = youngest)
- Glossan
- Outcrop, small
- Fossil location
- Mineral occurrence (ground observation)
- Dated sample location (see Table 1)
- Sample location

Table 1. Radiocarbon age.

Map No.	Sample No.	Latitude	Longitude	Depth (m a.s.l.)	Material	Radiocarbon Age (cal BP)	Environment
CGM 218	1815	66°24'N	113°23'W	200	Peat	2010 ± 100	Wetland
CGM 218	1816	66°24'N	113°23'W	200	Peat	2010 ± 100	Wetland
CGM 218	1817	66°24'N	113°23'W	200	Peat	2010 ± 100	Wetland

**References**

Desjardins, C., Proulx, A., Eagles, S., Everett, G., Hankin, D.H., Inglis, E., Kerr, D.E., Moore, A., Parent, M., Robertson, L., Smith, I.A., St-Onge, D.A., and Thwaites, A., 2014. Science language for an integrated Geological Survey of Canada data model for surficial geology maps, version 2.0. Geological Survey of Canada, Open File 7031, 464 p. doi:10.4095/069225

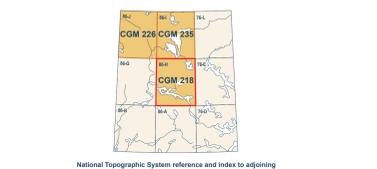
Dredge, L.A., Kerr, D.E., and Ward, B.C., 1996. Surficial geology, Point Lake, District of Mackenzie, Northwest Territories. Geological Survey of Canada, Map 180A, scale 1:125 000, doi:10.4095/208591

**Abstract**

This new surficial geology map product represents the conversion of the Geology Map 180A and its legend only, using the Geological Survey of Canada's Surficial Data Model (SDM) version 2.0.1 which can be found in Open File 7031. All geoscientific knowledge and information from Map 180A that continued to the current SDM were maintained during the conversion process. The purpose of converting legacy map data to a common science language and common legend is to enable and facilitate the efficient digital compilation, interpretation, management, and dissemination of geologic map information in a structured and consistent manner. This provides an effective knowledge management tool designed around a geoscientific which can expand following the type of information to appear on new surficial geology maps.

**Résumé**

Ce nouveau produit cartographique de la géologie des formations superficielles correspond uniquement à la conversion de la Carte 180A et de sa légende, en se servant du Modèle de données pour les Formations superficielles (MDF) version 2.0.1 de la Commission géologique du Canada, lequel peut être consulté dans le Dossier public 7031. Toutes les connaissances et l'information de nature géoscientifique de la Carte 180A qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. Le but de cette conversion de cartes publiques antérieurement basées sur un langage scientifique commun et une légende commune est de permettre et de faciliter la compilation, l'interprétation, la gestion et la diffusion efficaces de l'information géologique cartographique en mode numérique de façon structurée et cohérente. Cette façon de faire vise un outil efficace de gestion des connaissances élaboré à l'aide d'une géoscientifique qui pourra évoluer suivant le type d'information à paraître sur les nouvelles cartes des formations superficielles.



National Topographic System reference and index to adjoining published Geological Survey of Canada maps

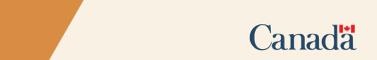
Catologue No. M183-1218-2018E-PDF  
ISBN 978-0-605-05374-5  
doi:10.4095/208780

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**CANADIAN GEOSCIENCE MAP 218**  
**SURFICIAL GEOLOGY**  
**POINT LAKE**  
Northwest Territories-Nunavut  
NTS 96-H  
1:125 000



**Preliminary**  
Geological Survey of Canada  
Canadian Geoscience Maps



**Preliminary** **Preliminary** **Preliminary** **Preliminary** **CANADIAN GEOSCIENCE MAP 218** **Preliminary** **Preliminary** **Preliminary** **Preliminary**

**SURFICIAL GEOLOGY**  
**POINT LAKE**  
Northwest Territories-Nunavut  
NTS 96-H  
1:125 000

Base map at the scale of 1:250 000 from Natural Resources Canada, 2016 modification.  
Elevations in metres above mean sea level.  
Mean magnetic declination 2016, 16°20'E, decreasing 24.7° annually. Readings vary from 15°32'E in the SE corner to 17°04'W in the NW corner of the map.  
This map is not to be used for navigational purposes.

The Geological Survey of Canada welcomes corrections or additional information from users.  
Data may include additional observations not portrayed on this map. See map info document accompanying the downloaded data for more information about this publication.  
This publication is available for free download through GEOSCAN (http://geoscan.nrcan.gc.ca)

2 0 2 4 6 8 10 km

Preliminary publications in this series have not been scientifically edited.

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2nd EDITION