



**LEGEND\***

**PHANEROZOIC**

**CENOZOIC**

**QUATERNARY**

**MESOZOIC**

**PALEOZOIC**

**PRECAMBRIAN**

**PROTEROZOIC**

23 Gabbro Dikes (Molson Swarm?)  
23a Unsubdivided

*INTRUSIVE CONTACT*

**ARCHEAN**

**NEOARCHEAN (2.5 to 2.9 Ga)**

**Hornblende Suite**

16 Hornblende Tonalite to Granodiorite  
16a Unsubdivided  
16b Tonalite to quartz diorite to granodiorite; coarse grained; granular; white to grey; 10 to 30% hornblende and biotite  
16c K-feldspar megacrystic; granodiorite to granite; grey to pink; >5% hornblende and biotite

**Granitic Suite**

15 Biotite Granodiorite to Granite  
15a Unsubdivided; pink to white; inequigranular; <15% biotite  
15d Dikes  
15p Pegmatitic  
15t Apatite

*INTRUSIVE CONTACT*

**NEOARCHEAN TO MESOARCHEAN (2.5 to 3.4 Ga)**

**Tonalitic Suite**

12 Biotite Tonalite to Granodiorite  
12a White to grey; 5 to 15% biotite; fine to coarse grained  
12p Feldspar megacrystic

*INTRUSIVE CONTACT*

**Gneissic Suite**

11 Tonalite to Granodiorite Gneisses  
11b Mafic; grey to dark grey; >15% mafic minerals; typically has mafic inclusions and/or pronounced continuous layers; folded

*INTRUSIVE CONTACT*

**Mafic Suite**

10 Mafic to Ultramafic Intrusive Rocks  
10a Amphibolite; fine to medium grained; foliated; occurs as inclusions or dikes

\*This legend is common to several map areas. All codes may not appear on an individual map.

**Ontario**

Ontario Geological Survey

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**PRECAMBRIAN GEOLOGY**

**LITTLE SACHIGO LAKE AREA**

Scale 1:50 000

1000 m 0 1 2 km

NTS Reference 53 K/1

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**SYMBOLS**

Geologic boundary, assumed (inclined, vertical, dip unknown)

Outcrop visited by the authors

Small outcrop visited by the authors

Foliation; assumed (inclined, vertical, dip unknown)

Moraine boundary (approximate)

The positions of all boundaries and surveyed lines are approximate.

**SOURCES OF INFORMATION**

Base map derived from photomap Map 53K1 of the Department of Energy, Mines and Resources Canada, published in 1989.

GSC-ODM aeromagnetic map 7280G (Stull Lake) 1967, scale 1:253 440.

OGS Map 2541, Bedrock Geology of Ontario, northern sheet (1991), scale 1:1 000 000.

In 1996 Magnetic North was 0°40' west of True North shifting 4.6' west per year at the centre of the Little Sachigo Lake area.

Geology not tied to survey lines.

Information on exploration activity in this area is available in digital form and as hard copy from the Ministry's Earth Resources and Land Information System (ERLIS).

Metric conversion factor: 1 foot = 0.3048 m.

**CREDITS**

Geology and compilation by D. Stone, J. Hallé and M. Lange, 1996.

To enable the rapid dissemination of information, this map has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Users should verify critical information.

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Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Stone, D., Hallé, J. and Lange, M. 1997. Precambrian geology, Little Sachigo Lake area. Ontario Geological Survey, Preliminary Map P.3369, scale 1:50 000.