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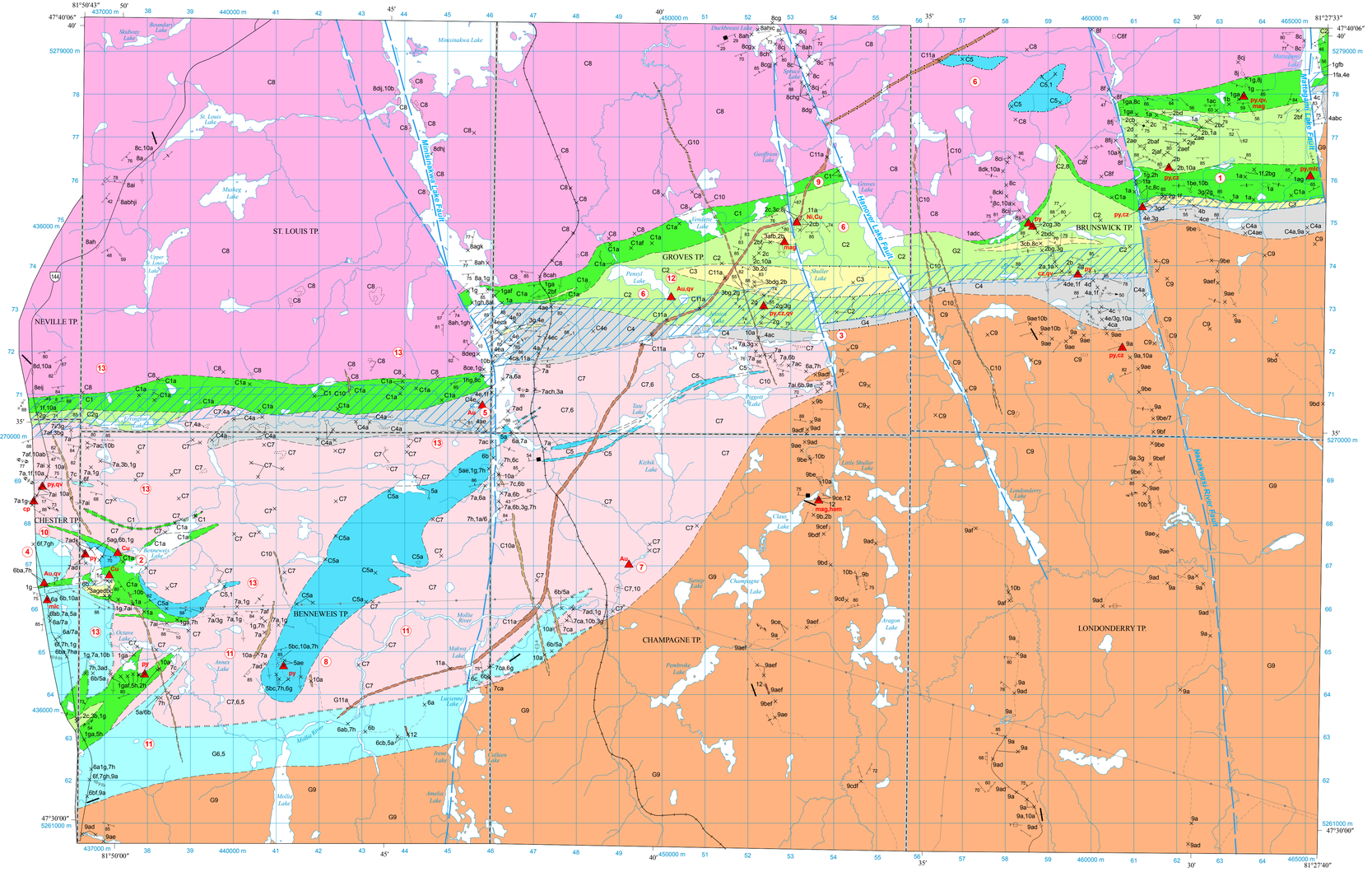


## LEGEND[abc]

### PHANEROZOIC

#### CENOZOIC

QUATERNARY

RECENT
Lake, stream and wetland deposits

PLEISTOCENE
Glacial, glaciofluvial and glaciolacustrine deposits: sand, gravel, clay, till

*UNCONFORMITY*

### PRECAMBRIAN

#### PROTEROZOIC

MESOPROTEROZOIC

**Mafic Intrusive Rocks**

**12** **Sudbury Dike Swarm**: olivine gabbro

*INTRUSIVE CONTACT*

PALEOPROTEROZOIC

**Mafic Intrusive Rocks**

**11** **Biscotasing Dike Swarm**
11a Gabbro to quartz gabbro

*INTRUSIVE CONTACT*

**10** **Matachewan Dike Swarm**
10a Aphyric quartz gabbro
10b Plagioclase phyric quartz gabbro, >1% plagioclase phenocrysts

*INTRUSIVE CONTACT*

#### ARCHEAN

NEOARCHEAN

**Intermediate and Felsic Intrusive Rocks**

**9** **Ramsay–Algoma Terrane**
9a Biotite granodiorite to tonalite
9b Biotite + amphibole granodiorite
9c Biotite + amphibole + magnetite granodiorite
9d Medium grained
9e Coarse grained
9f Xenolithic

*INTRUSIVE CONTACT*

**8** **Kenogamissi Batholith**
8a Biotite tonalite
8b Biotite + amphibole tonalite
8c Biotite granodiorite
8d Biotite + amphibole granodiorite
8e Amphibole quartz monzonite to granodiorite
8f Quartz–potassium feldspar megacrystic granite
8g Foliated
8h Gneissic
8i Xenolithic
8j Granite: aplite and/or pegmatite
8k Magnetite bearing

*INTRUSIVE CONTACT*

**Metamorphosed Mafic, Intermediate and Felsic Intrusive Rocks of the Chester Intrusive Complex**

**7** **Felsic Intrusive Rocks**
7a Biotite tonalite
7b Biotite + amphibole tonalite
7c Granodiorite
7d Chlorite bearing
7e Coarse grained
7f Quartz porphyritic
7g Intrusion breccia
7h Dikes
7i Schistose[de]
7k Magnetite bearing

*GRADATIONAL AND INTRUSIVE CONTACT*

**6** **Intermediate Intrusive Rocks**
6a Quartz diorite to gabbro
6b Diorite and/or gabbro
6c Monzodiorite, with possibly hematite-stained feldspar
6f Intrusion breccia
6g Dikes

*GRADATIONAL AND INTRUSIVE CONTACT*

**5** **Mafic Intrusive Rocks**
5a Gabbro and/or diorite
5b Hornblende gabbro
5c Pegmatitic
5e Coarse grained
5g Intrusion breccia
5h Dikes

*INTRUSIVE CONTACT*

**Metasedimentary and Metavolcanic Rocks**

**4** **Clastic Metasedimentary Rocks (Timiskaming Assemblage)**
4a Conglomerate: boulders and cobbles, clast supported
4b Pebbly sandstone, matrix supported
4c Sandstone, arkosic sandstone, arenite
4d Siltstone and mudstone
4e Schistose[e]

**3** **Felsic Metavolcanic Rocks**
3a Flows, autoclastic flow breccia
3b Lapilli tuff, tuff
3c Tuff breccia, breccia
3d Quartz porphyritic
3e Spherulitic
3f Hydrothermal breccia, with magnetite-chlorite veining
3g Schistose[e]

**2** **Intermediate Metavolcanic Rocks**
2a Flows, pillowed
2b Lapilli tuff, tuff
2c Tuff breccia, breccia
2d Volcanogenic sandstone to siltstone
2e Amygdaloidal
2f Feldspar ± amphibole phenocrystic
2g Schistose[e]
2h Amphibolite
2j Flow breccia

**1** **Mafic Metavolcanic Rocks**
1a Flows, massive
1b Flows, pillowed
1c Tuff
1d Amygdaloidal
1e Feldspar ± amphibole phenocrystic
1f Schistose[e]
1g Amphibolite
1h Gneissic

[a] *This is a field legend and may change due to subsequent laboratory work.*

[b] *The letter "C" preceding a code refers to data compiled from existing maps and from maps filed for assessment work credits and available for viewing at the Timmins Resident Geologist's Office and from the GeologyOntario website. The letter "G" preceding a code refers to data interpreted from geophysical data.*

[c] *Rock codes designated with a "/" (e.g., 7a/3g) indicate that the lithology displays characteristics that could belong to either rock type but the first code is inferred to predominate.*

[d] *Parts of this rock may be extrusive.*

[e] *This term is used to describe an intensely foliated rock; assignment to a protolith is speculative.*

## SYMBOLS

- Small bedrock outcrop
- Area of bedrock outcrop
- Geological contact (interpreted, gradational, interpreted from geophysical data)
- Sinistral fault, unknown generation, trend only
- Fault, unknown horizontal movement, unknown generation, trend only
- Rideout fault zone boundary
- Rideout fault zone
- Graded bedding, with facing (inclined)
- Pillowed flows, no facing (inclined)
- Pillowed flows, with facing (vertical)
- Crenulation cleavage, S-asymmetry, unknown generation (inclined, magnitude of dip uncertain)
- Crenulation cleavage, unknown asymmetry, unknown generation (inclined, vertical)
- Crenulation cleavage, Z-asymmetry, unknown generation (inclined, vertical, magnitude of dip uncertain)
- General cleavage, unknown generation (inclined, magnitude of dip uncertain)
- Compositional layering, unknown generation (inclined)
- Compositional layering and parallel foliation, unknown generation (inclined, vertical)
- Mineral foliation, 1st generation (inclined, vertical, magnitude of dip uncertain, trend only)
- Mineral foliation, 2nd generation (inclined, vertical, magnitude of dip uncertain)
- Mineral foliation, unknown generation (inclined, vertical, magnitude of dip unknown, trend only)
- Schistosity (inclined, vertical, magnitude of dip uncertain)
- Fracture, unknown displacement, unknown generation (inclined, vertical, trend only)
- Brittle fault, unknown displacement, 1st generation (vertical)
- Brittle fault, unknown displacement, unknown generation (inclined)
- Ductile shear, dextral displacement, unknown generation (inclined, vertical, magnitude of dip uncertain)
- Ductile shear, sinistral displacement, unknown generation (inclined)
- Ductile shear, unknown horizontal displacement, unknown generation (inclined, vertical)
- Igneous contact, dike (vertical)
- Crenulation lineation, Z-asymmetry, unknown generation
- Elongation (stretch) lineation, unknown generation
- Fold axis lineation, N-asymmetry, unknown generation
- Intersection lineation, between unknown fabric generations
- Mineral lineation, unknown generation
- Veins
- Property (number keyed to Properties list)
- Mineral occurrence
- Glacial striae, direction of ice movement known
- Roads (primary, secondary, trail)
- Railway
- Powerline

## PROPERTIES

| Property | Deposit Name | Commodity |
|---|---|---|
| 1 | Benton Resources Incorporated | |
| 2 | Broken Hill showings | Cu |
| 3 | Cascadero Copper Corporation | |
| 4 | Eccles–Holmes vein | Au |
| 5 | Jarvis showing | Au |
| 6 | Liberty Mines Incorporated | Ni, Cu |
| 7 | Makwa–Champagne showing | Au |
| 8 | Newcastle Resources Limited | |
| 9 | Nickel Rim Mines Limited | |
| 10 | Santana Resources Limited | |
| 11 | Sheridan, John | |
| 12 | Tasmijopen showing | Au |
| 13 | Trelawney Mining and Exploration Incorporated | |

Ontario

Ontario Geological Survey

MAP P.3762—Revised

PRECAMBRIAN GEOLOGY

# SOUTH OF GOGAMA AREA

Scale 1:50 000

1000 m 0 1 2 km

NTS Reference: 41 P/11, 12

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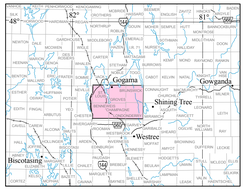
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