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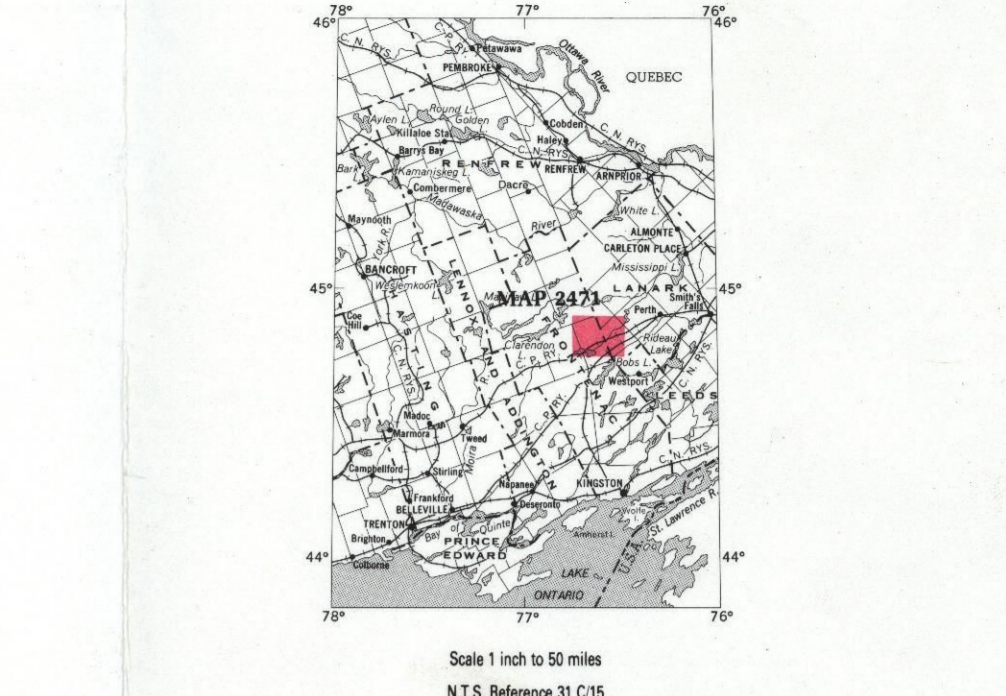
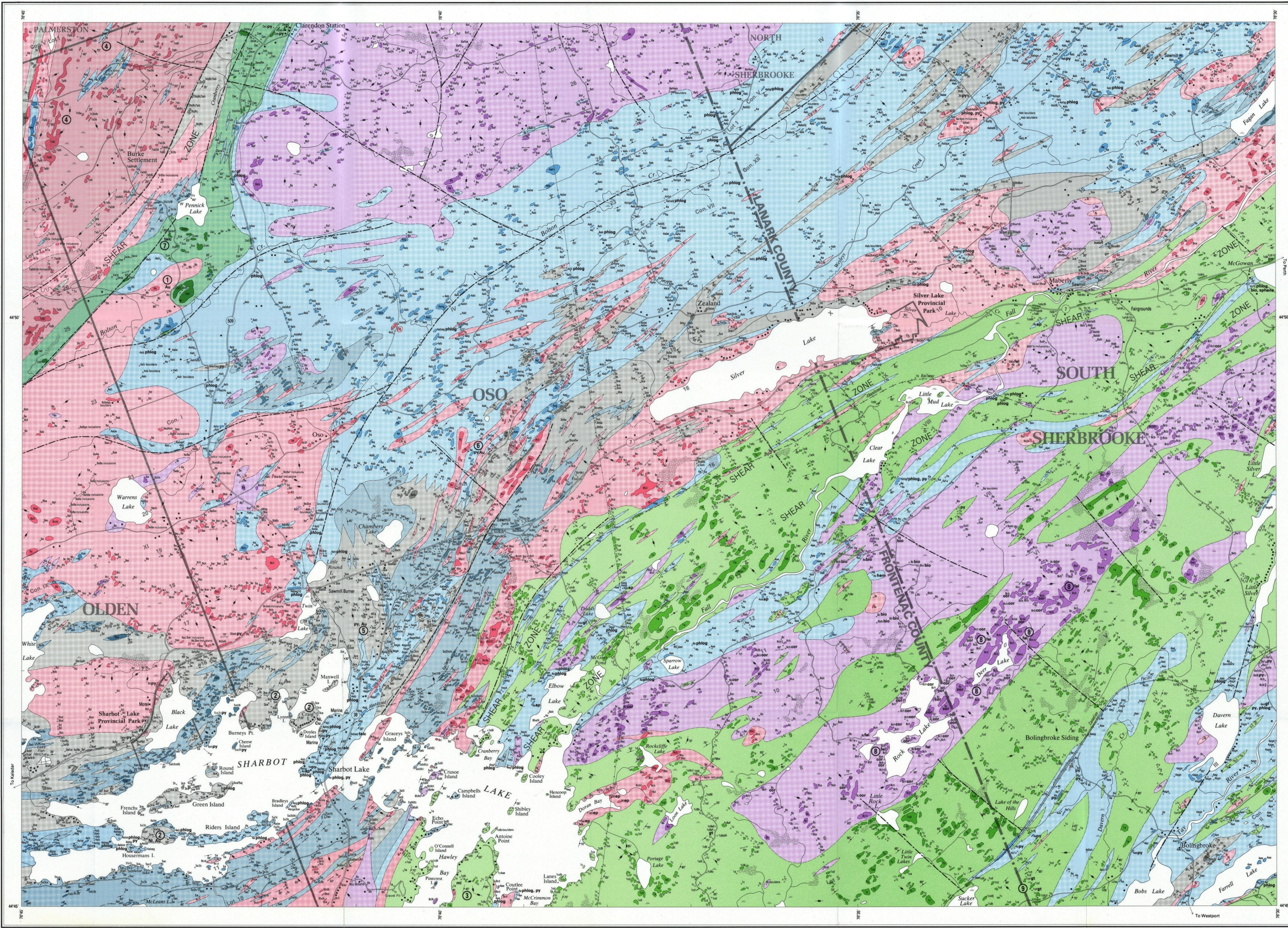
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LEGEND

- PHANEROZOIC**
- CENOZOIC***
- QUATERNARY**
- RECENT**
- Organic swamps and alluvial deposits.
- PLEISTOCENE**
- Outwash deposits, sand silt, clay and till.
- PRECAMBRIAN***
- LATE PRECAMBRIAN**
- LATE TECTONIC METAMORPHOSED INTRUSIVE ROCKS**
- LATE MAFIC INTRUSIVE ROCKS**
- 10 Mafic (diabase) dikes.
- INTRUSIVE CONTACT**
- LATE GRANITIC INTRUSIVE ROCKS***
- 8a Fine to medium grained massive to foliated biotite granite, quartz monzonite (biotite 15%).
- 8b Medium to coarse grained equigranular massive biotite granite, quartz monzonite (biotite 10%).
- 8c Fine to medium grained, massive to foliated, biotite granodiorite.
- 8d Fine-grained, leucocratic granodiorite.
- 8e Medium grained, massive to foliated, syenite ± hornblende ± biotite ± epidote.
- 8f Porphyritic quartz or feldspar porphyroblasts varieties of 8b.
- 8g Muscovite-bearing varieties of above rock types.
- 8h Shear zone quartz monzonite and granodiorite phases including protomylonite, mylonite, and mylonite gneiss ± porphyroblasts, usually containing epidote.
- 8i Pink granodiorite pegmatite dikes and irregular masses, locally containing muscovite ± biotite containing tourmaline ± biotite ± muscovite.
- 8j White granodiorite pegmatite dikes and irregular masses, locally containing muscovite ± biotite ± garnet.
- 8k Intracrystalline metasedimentary and metavolcanic inclusions, (many assimilated material from units 3a, 3c).
- 8l Quartz veins and dilation fillings ± magnetite.
- INTRUSIVE CONTACT**
- EARLY MAFIC INTRUSIVE ROCKS**
- LAVANT AND LANARK-OSO MAFIC INTRUSIONS**
- 8a Medium to coarse grained gabbro (CI > 30).
- 8b Medium to coarse grained anorthositic gabbro, gabbroic anorthosite (CI 10-30).
- 8c Medium to coarse grained anorthosite (CI < 10).
- 8d Medium grained quartz gabbro.
- 8e Medium to coarse grained monzonite phases.
- 8f Fine grained varieties of 8a.
- 8g Syenite-bearing phases above rock types.
- 8h Porphyroblastic gnomerophyric phases.
- 8i Medium grained biotite granodiorite to biotite tonalite phases.
- 8j Apatite granodiorite phases.
- 8k Coarse grained pyroxenite to peridotite.
- FAULT AND/OR INTRUSIVE CONTACT**
- SYNTONIC METAMORPHOSED FELSIC TO INTERMEDIATE INTRUSIVE ROCKS**
- ADDINGTON PLUTON***
- 7a Foliated to gneissic, medium grained, biotite-quartz monzonite.
- 7b Shear zone quartz monzonite - granodiorite phases including protomylonite, mylonite, and mylonite gneiss ± porphyroblasts, usually containing epidote.
- 7c Foliated to gneissic, medium grained, biotite-quartz monzonite (biotite < 25%).
- 7d Weakly foliated, leucocratic, medium grained pink granite.
- 7e Foliated to gneissic, medium grained, biotite granodiorite (biotite > 25%).
- FAULT AND/OR INTRUSIVE CONTACT**
- NORTHBROOK BATHOLITH***
- 6a Limited to weakly foliated, medium grained biotite tonalite.
- FAULT AND/OR INTRUSIVE CONTACT**
- METASEDIMENT AND METAVOLCANIC AMPHIBOLE-RICH GNEISSES AND SCHIST***
- 5a Foliated, fine to medium grained, subidioblastic hornblende-plagioclase ± biotite ± epidote ± calcite gneiss, locally boudinaged.
- 5b Massive, medium to coarse grained, idoblastic amphibole-plagioclase gneiss, locally boudinaged.
- 5c Calcite porphyroblasts and/or calcite layers locally occurring in unit 5a.
- 5d Biotite-chlorite schist.
- 5e Foliated, fine to medium grained, subidioblastic plagioclase-hornblende ± biotite ± epidote gneiss, locally boudinaged.
- 5f Foliated, fine to medium grained, subidioblastic plagioclase-hornblende gneiss (80% hornblende).
- 5g Foliated, fine to medium grained, potassic feldspar-hornblende gneiss.
- 5h Almandine garnet porphyroblasts in units 5a, f, g.
- 5i Biotite-hornblende-quartz-feldspar schist.
- 5j Shear zone phases of above units including protomylonite, mylonite and mylonite gneiss ± porphyroblasts.
- FAULT AND/OR INTRUSIVE CONTACT**
- CARBONATE METASEDIMENT***
- 4a Medium to coarse grained, granoblastic calcite marble.
- 4b Fine to medium grained, granoblastic laminated calcite marble (0.5 to 2 cm thick layers).
- 4c Medium grained, granoblastic dolomite-marble.
- 4d Medium grained, granoblastic dolomite-calcite marble.
- 4e Fine to medium grained, subidioblastic calc-silicate assemblages containing tremolite, diopside, talc, apatite, sphene.
- 4f Fragmental dolomite-calcite marble, containing flags of quartzite, quartz and calc-silicate (unit 4e material).
- 4g Quartzite, quartz-feldspathic blocks, broken beds and flags.
- 4h Chert beds (5 cm thick).
- 4i Mafic hornblende-rich segmented layers.
- 4j Coarse grained (2 cm) varieties of 4a, d.
- 4k Contact schist phases containing tremolite, diopside, apatite, talc, phlogopite.
- 4l Calcite-graphite schist.
- CLASTIC SILICEOUS GNEISSES AND SCHIST***
- 3a Foliated, granoblastic, fine to medium grained, biotite-quartz-feldspar gneiss (biotite 10-25%).
- 3b Foliated, granoblastic, fine to medium grained, biotite-hornblende-plagioclase-quartz paragneiss.
- 3c Fine grained banded quartzite ± biotite ± muscovite ± feldspar (0.5 to 2 cm thick layers).
- 3d Foliated, granoblastic, fine to medium grained epidote-biotite-potassium feldspar-plagioclase-quartz paragneiss.
- 3e Pyritic varieties of 3d, rusty quartz-feldspar paragneiss.
- 3f Muscovite-bearing varieties of units 3a, 3c.
- 3g Muscovite-quartz-feldspar ± garnet schist.
- 3h Foliated fine to medium grained biotite-calcite-quartz-feldspar paragneiss, locally schistose.
- 3i Garnetiferous porphyroblastic varieties of units 3a, 3b, 3d.
- 3j Shear zone phases of above units including protomylonite, mylonite and mylonite gneiss.
- 3k Leucocratic, foliated, granoblastic, fine grained biotite-magnetite-muscovite-quartz-feldspar gneiss.
- MAFIC TO INTERMEDIATE METAVOLCANICS***
- 2a Foliated, subidioblastic, fine grained quartz-epidote-plagioclase-hornblende ± chlorite amphibole and amphibole gneiss, gneissic varieties usually have up to 20% biotite (CI > 35).
- 2b Foliated, subidioblastic, fine to medium grained epidote-plagioclase-hornblende amphibole containing porphyroblasts of hornblende (CI > 35).
- 2c Foliated, subidioblastic, fine grained, biotite-hornblende-quartz-feldspar ash tuff (CI = 15-30).
- 2d Fine grained talc-tremolite-calcite schist.
- 2e Shear zone phases of above units including protomylonite, mylonite and mylonite gneiss, porphyroblasts, locally containing potassium feldspar.
- MAFIC TO SILICEOUS MIGMATITES AND ANATICTIC GNEISSES***
- 1a Medium to coarse grained granodiorite gneiss, locally augen-bearing and contains inclusions of unit 1b and schlieren (CI < 20).
- 1b Medium to coarse grained plagioclase (labradorite)-hornblende pyroxene diorite, usually augen-bearing (plagioclase) displaying a stromatolitic structure.
- 1c Fine grained quartz-feldspar ± biotite ± pyrite gneiss.
- 1d Medium grained quartz-feldspar-biotite ± pyroxene ± garnet gneiss.
- 1e Well differentiated migmatite metatexite containing a fine to medium grained augen-bearing plagioclase-quartz and feldspar and a fine to medium grained epidote-plagioclase-biotite, display distinctive stromatolitic structure.
- 1f Medium grained quartz-plagioclase-biotite ± hornblende ± pyroxene, syenitic to granodioritic migmatite displaying a stromatolitic structure and no xenoliths or schlieren (detrital).
- 1g Medium grained gabbroic ± biotite ± hornblende gneiss.
- 1h Coarse grained pegmatite segregations paralleling pressure.

- SYMBOLS**
- Glacial striae, Glacial fluting or drumlin.
 - Esker.
 - Bedrock (small outcrop, area of outcrop).
 - Bedding, horizontal.
 - Bedding, top unknown, (inclined, vertical).
 - Bedding, top indicated by arrow; (inclined, vertical, overturned).
 - Bedding, top (arrow) from grain gradation; (inclined, vertical, overturned).
 - Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned).
 - Bedding, top (arrow) from relationship of cleavage and bedding; (inclined, overturned).
 - Lava flow, top (arrow) from pillow shape and packing. Lava flow, top in direction of arrow.
 - Direction of paleocurrent.
 - Schistosity; (horizontal, inclined, vertical).
 - Gneissosity; (horizontal, inclined, vertical).
 - Foliation; (horizontal, inclined, vertical).
 - Banding; (horizontal, inclined, vertical).
 - Lineation with plunge.
 - Geological boundary, (observed, position interpreted, deduced from geophysics).
 - Magnetic contour value in gammas. Magnetic attraction.
 - Fault; (observed, assumed). Spot indicates down throw side, arrows indicate horizontal movement.
 - Lineament.
 - Jointing; (horizontal, inclined, vertical).
 - Drag folds with plunge.
 - Anticline, syncline, with plunge.
 - Drill hole; (vertical, inclined, projected vertically, projected up dip). Overturn shown.
 - Location of sample.
 - Vein, vein network. Width in inches, feet or metres.
 - Radioactivity.
 - Swamp.
 - Inundated land.
 - Motor road, Provincial highway number enclosed where applicable.
 - Other road.
 - Trail, portage, winter road.
 - International or Provincial boundary.
 - County, District, Regional or District Municipal Boundary, with mile post.
 - Municipal Boundary, (City, Town, Village, Township, incorporated Township), with milepost.
 - Base Line, Provincial Park, with milepost, (surveyed, unsurveyed).
 - Mining property, surveyed. Mineral deposit or mining property, unsurveyed.
 - Surveyed line.
 - Unsurveyed line.
- All boundary and survey lines are approximate position only.
- Some symbols may not occur on this map.

SOURCES OF INFORMATION

Geology by J.M. Wolff and assistants, Ontario Geological Survey, 1979.

Geology is not tied to surveyed lines.

Assessment Files Research Office, Ontario Geological Survey, Toronto.

Aeromagnetic Map 69G, Sharbot Lake, Ontario, 1948.

Hawley, W.D. 1947. Geology of the Olden-Bedford Area. Ontario Department of Mines, Vol. 56, Pt. 6, p. 100. Map No. 1947-5, scale 1 inch to 1 mile.

Hewitt, D.F. 1984. Geological notes for Maps No. 2053 and 2054. Ontario Department of Mines, Geological Circular No. 12, Geological Survey of Canada.

Cartography by C. McLean, B. McQuaid and assistants.

Base map from National Topographic System, sheet 31C1/15, with additional information by J.M. Wolff.

Magnetic declination was 10° 26' W in 1979.

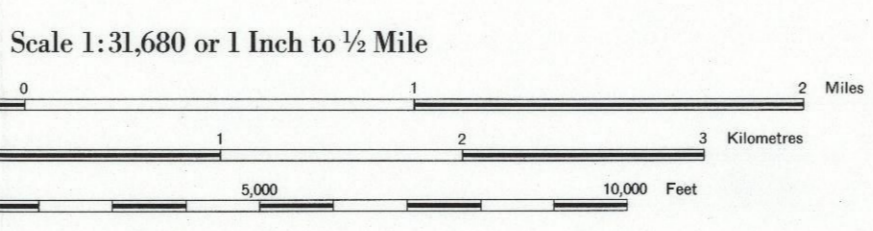
PROPERTIES, MINERAL DEPOSITS

- Boak R.T. occurrence
- Cramo: Surveys Ltd [1959]
- Hawley Wm. occurrence
- Kevel Mining Group
- Marrow A. occurrence
- McVeigh R. occurrence
- Pennick Lake occurrence
- Rock Lake - Deer Lake occurrence
- Sucker Lake occurrence

Information current to December 31st, 1979. Former properties on ground now open for staking are only shown if exploration data is available. A date in square brackets indicates last year of exploration activity. For further information see report.

Wolff, J.M. Sharbot Lake, Ontario Geological Survey Map 2471, Precambrian Geology Series, scale 1 inch to 1/2 mile, geology 1979.

Ontario Geological Survey
Map 2471
SHARBOT LAKE
SOUTHERN ONTARIO



*Unconsolidated deposits, Cenozoic deposits are represented by the lighter coloured parts of the map.

*Bedrock geology. Outcrops and inferred extensions of each rock map unit are shown respectively in deep and light tones of the same colour.

*This unit is interpreted as correlative with the McLean Granitic Pluton in the Long Lake Area (Wolff 1978, 1979).

*No relative age difference is implied between the Addington Pluton and the Northbrook Batholith.

*No relative age is implied between these rock types.

*The metamorphic convention is used in naming these rocks with the least plentiful mineral placed first.

*Metamorphic textural terminology is after Spry (1969).

*Migmatite and anatexite terminology is after Mehner (1971).

CI Colour index.

ap	Apatite
bt	Biotite
cu	Copper
cor	Corundum
ep	Epidote
fel	Feldspar
gt	Garnet
gr	Graphite
hem	Hematite
mi	Mica
ni	Nickel
phlog	Phlogopite
py	Pyrite
tal	Talc