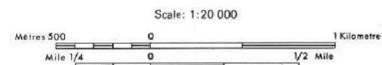
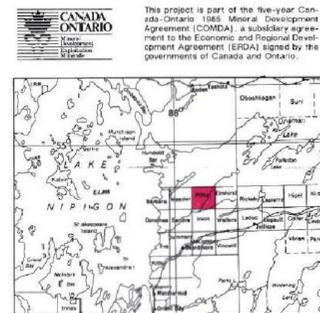


Ontario Geological Survey
Map 2537
PRECAMBRIAN GEOLOGY
PIFHER TOWNSHIP



NTS Reference: 42 E/13
QDM-GSC Aeromagnetic Map: 21365
QDM Geological Compilation Map: 2102
Queen's Printer for Ontario, 1989
Printed in Ontario, Canada
This map is published with the permission of V.G. Mills,
Director, Ontario Geological Survey



LEGEND^{a,b,c}

PHANEROZOIC
CENOZOIC
QUATERNARY
PLEISTOCENE AND RECENT
Peat, lake and stream deposits
UNCONFORMITY

PRECAMBRIAN
MIDDLE TO LATE PROTEROZOIC
MAFIC INTRUSIVE ROCKS

- 8a Diabase, plagioclase porphyritic
- 8b Diabase, nonporphyritic
- 8c Diabase, pegmatitic

INTRUSIVE CONTACT

ARCHEAN
FELSIC AND INTERMEDIATE PLUTONIC ROCKS
NORTH WIND LAKE PLUTON

- 7a Diorite
- 7b Quartz diorite
- 7c Tonalite
- 7d Trondhjemite
- 7e Quartz monzodiorite
- 7f Granodiorite
- 7g Quartz monzonite
- 7h Granite
- 7i Biotite-bearing
- 7k Hornblende-bearing
- 7m Aplite
- 7n Pegmatite
- 7p Microcline porphyritic
- 7r Gneissic
- 7x Xenolith-bearing^d

INTRUSIVE CONTACT

EARLY GRANITIC INTRUSIONS

- 6 Unsubdivided
- 6a Diorite
- 6b Quartz diorite
- 6c Tonalite
- 6d Biotite-bearing
- 6e Hornblende-bearing
- 6f Plagioclase porphyritic
- 6g Gneissic
- 6x Xenolith-bearing^d

INTRUSIVE CONTACT

INTERMEDIATE TO FELSIC HYPABYSSAL ROCKS

- 5a Quartz and quartz-feldspar porphyry
- 5b Feldspar porphyry
- 5c Feldspar-amphibole porphyry
- 5d Biotite-bearing feldspar quartz porphyry
- 5e Blue quartz phenocryst-bearing
- 5f Felsic dikes
- 5g Granitic dikes
- 5h Amphibole grade metamorphism
- 5i Sericite schist

INTRUSIVE CONTACT

MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS

- 4a Gabbrro, mesocratic to melanocratic, medium to coarse grained
- 4b Gabbrro, coarse to very coarse grained
- 4c Gabbrro, leucocratic
- 4d Gabbrro, plagioclase porphyritic
- 4e Mafic (basaltic) dikes
- 4f Ultramafic rocks (dikes)
- 4g Lamprophyre
- 4h Amphibole grade metamorphism

METAVOLCANICS
FELSIC METAVOLCANICS

- 3 Unsubdivided
- 3a Tuff
- 3b Lapilli tuff, lapillstone; monolithic
- 3c Lapilli tuff, lapillstone; heterolithic
- 3d Tuff breccia; monolithic
- 3e Tuff breccia; heterolithic
- 3f Porphyritic rocks (quartz and feldspar phenocrysts)
- 3g Amphibole grade metamorphism

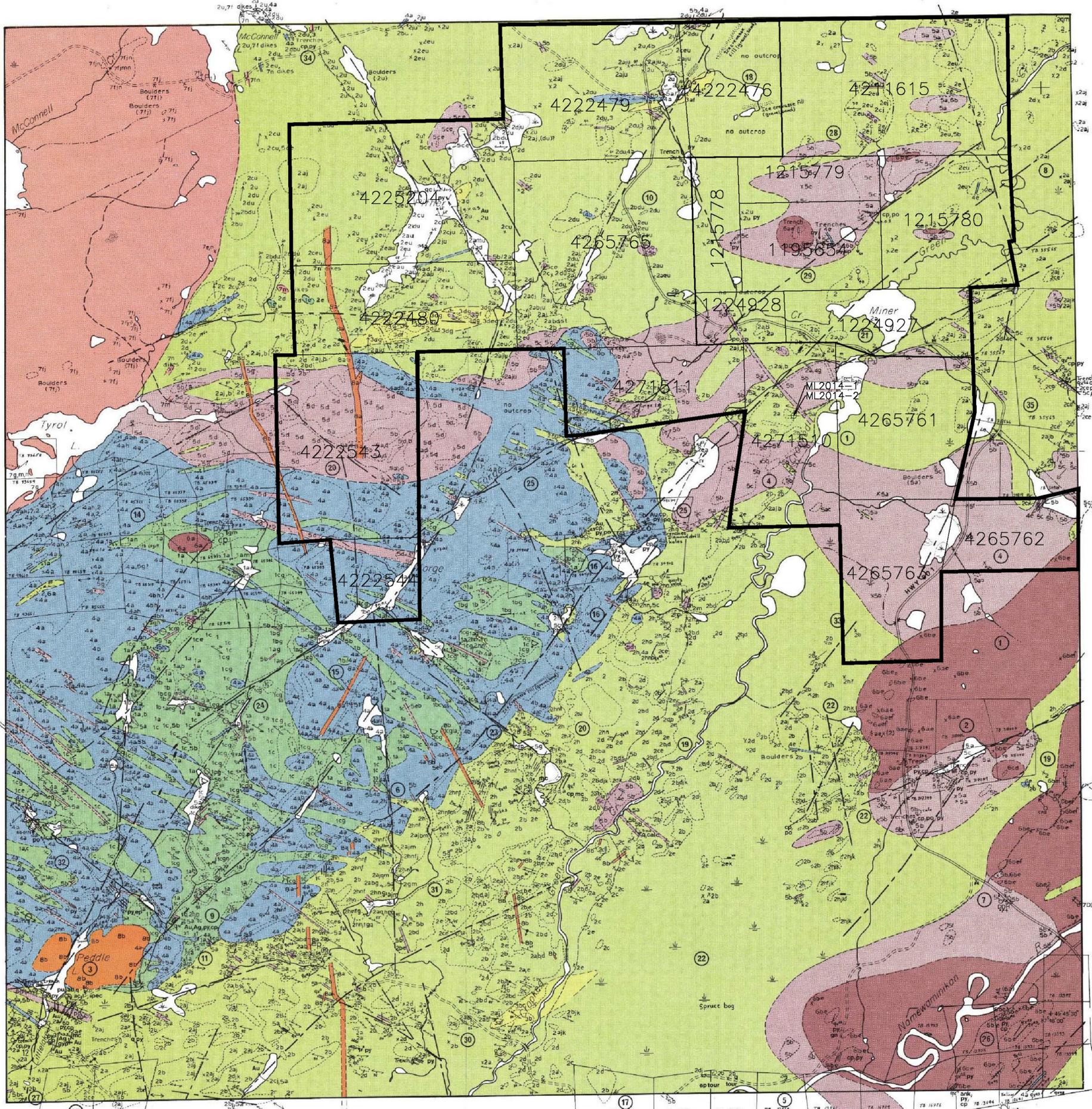
INTERMEDIATE TO FELSIC METAVOLCANICS

- 2 Unsubdivided
- 2a Tuff
- 2b Lapilli tuff, lapillstone; monolithic
- 2c Lapilli tuff, lapillstone; heterolithic
- 2d Tuff breccia; monolithic
- 2e Tuff breccia; heterolithic
- 2f Flow-top breccia
- 2g Hyaloclastite
- 2h Massive flow
- 2j Plagioclase porphyritic
- 2k Amphibole porphyritic
- 2m Vesicular
- 2n Igneous banding
- 2p Spherulitic
- 2q Fumaceous bearing
- 2r Chlorite-sericite schist
- 2s Silicified
- 2t Feldspathized (potassium feldspar)
- 2u Amphibole grade metamorphism

MAFIC TO INTERMEDIATE METAVOLCANICS

- 1 Unsubdivided mafic rocks
- 1a Massive flows
- 1b Coarse grained flows
- 1c Pillow flows
- 1d Pillow breccia
- 1e Flow-top breccia
- 1f Hyaloclastite
- 1g Amygdular
- 1h Tuff
- 1j Lapilli tuff
- 1k Tuff breccia
- 1m Amphibole grade metamorphism
- 1n Chlorite schist
- 1p Epoxidized
- 1q Carbonatized
- 1r Porphyritic (plagioclase phenocrysts)
- 1v Variscite

^a The letter 'v' in brackets following a rock unit number (e.g. 41v) indicates that the outcrop shown from airphoto interpretation has not been visited by the field party; the lithology has been inferred.
^b Rocks listed in this legend are subdivided lithologically and/or color does not imply an age relationship.
^c The legend and related material apply to Map 2535 and Map 2537; all units may not be present on this sheet.
^d Xenolith lithology is listed in parentheses, e.g. 7k(1x)



- PROPERTIES**
- PIFHER TOWNSHIP**
- Auger, T.
 - Augmito Explorations Limited
 - Beatts, A. (Piedle Lake Mining Corp. option)
 - Becherman, P.
 - Brandar Mines Limited
 - Bruce, G.
 - Carling Gold Resources Inc.
 - Chemalloy Minerals Limited [1971*]
 - Cowan, M.F. (Maloney-Sturgeon Mine)
 - Cox, L.
 - Cox, N., Huston, C., Lassila, P., Thorsteinson, D.
 - Cox, N., Lassila, P., Thorsteinson, D. (Sweeney Gold Corp. option)
 - Enders, C.
 - Gray, J.J. (Coleman Showing)
 - Greenspar Mines Limited [1965]
 - Hiltborough Exploration Limited
 - Hopkins, A.P.
 - Jacobus Mining Corporation Limited [1958]
 - Labrador Exploration (Ontario) Limited [1973]
 - Maruska, E.
 - Mealey, P.
 - Miron, W.
 - Mitto, A.
 - Nabigon, J.
 - Nabigon, J. and Nabigon, A.R.
 - Northam Concentrators Limited (Crooked Green Creek Mine)
 - Phoenix Gold Mines Limited (Sturgeon River Mine)
 - Podany Mining Corporation
 - Rosenblatt, A.
 - Sheridan, J.P. (Greenspar Occurrence)
 - Skalesky, P. (Atlantic Mining Corporation option)
 - Skalesky, P. (Piedle Lake Mining Corporation option)
 - Ternowesky, J.
 - Thorsteinson, D.
 - Wanzoski, J. [1976]
 - 487219 Ontario Limited (Greenspar Mine)
- * Date in square brackets indicates last year of active exploration.
- SYMBOLS**
- Small bedrock outcrop
 - Area of bedrock outcrop
 - Geological boundary: observed, position interpreted
 - Phase boundary within granitic rocks (North Wind Lake Pluton)
 - Geological boundary, deduced from geophysics
 - Fault
 - Lineament
 - Bedding, top unknown; (dip unknown, inclined, overturned)
 - Bedding, top indicated by arrow (inclined, vertical, overturned)
 - Bedding, top indicated by arrow from grain gradation; (inclined, vertical, overturned)
 - Pillow lava flow; top (arrow) from pillow shape and packing
 - Foliation from pillow elongations
 - Metamorphic foliation (inclined, vertical)
 - Schistosity (inclined, vertical)
 - Gneissosity (inclined, vertical)
 - Banding: igneous or metamorphic (dip unknown, inclined, vertical)
 - Lineation with plunge
 - Jointing (horizontal, inclined, vertical)
 - Drag folds with plunge
 - Shear zone; arrows indicate sense of horizontal movement
 - Glacial striae
 - Shaft, depth in metres
 - Test pit
 - Exploration trenching
 - Diamond-drill hole with company's hole number (unknown orientation, inclined)
 - Gravel pit
 - Quartz vein, width in metres
 - Vein; group of veins, width in metres
 - Sand or gravel feature
 - Mine dump

- ABBREVIATIONS**
- Ag Silver
 - Au Gold
 - ac Actinolite
 - ab Albite
 - ank Ankerite
 - calc Calcite
 - cp Chalcopyrite
 - ep Epidote
 - fu Fuchsite
 - gn Garnet
 - gyp Gypsum
 - mc Malachite
 - py Pyrite
 - pyr Pyrophyllite
 - pyr Pyrite
 - pu Pumpellyite
 - q Quartz
 - spec Spectralite
 - tl Titanite
 - tour Tourmaline
- SOURCES OF INFORMATION**
- Base map from maps of the Forest Resources Inventory, Lands and Waters Group, Ontario Ministry of Natural Resources, Lake Nipigon Sheet, District of Thunder Bay; Ontario Geological Survey, Preliminary Map P.257 (Rev.), scale 1:126 720. Revised Compilation by G.M. Stott.
- Geology not tied to surveyed claim or township lines.
Magnetic declination approximately 1°16' W in 1986.
Metric conversion factor: 1 foot = 0.3048 m.
- ACKNOWLEDGMENTS**
- Scientific edit by J. Webb and R.M. Stenstra
This is one of a group of transitional stage, computer assisted cartographic publications. The appearance of subsequent maps may change as technological refinements and modified production procedures are implemented.
Digital scanning and output were provided by State of the Environment, Environment Canada.
- CREDITS**
- Geology by D.U. Krez, B. Zayachivsky, and assistants, 1986, with additional information by R.H. Sutcliffe and R.C. Greenwood (1985).
Every possible effort has been made to ensure the accuracy of the information presented on this map; however, the Ontario Ministry of Northern Development and Mines does not assume any liability for errors that may occur. Users may wish to verify critical information; sources include both the references listed here, and information on file at the Resident Geologist's office and the Mining Recorder's office nearest the map area.
Issued 1989
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:
Krez, D.U. and Zayachivsky, B. 1989. Precambrian geology, Barabwa and Meander townships; Ontario Geological Survey, Map 2535, scale 1:15 840.

SAMPLING LEGEND
ML2014-1-2014 Sampling Locations