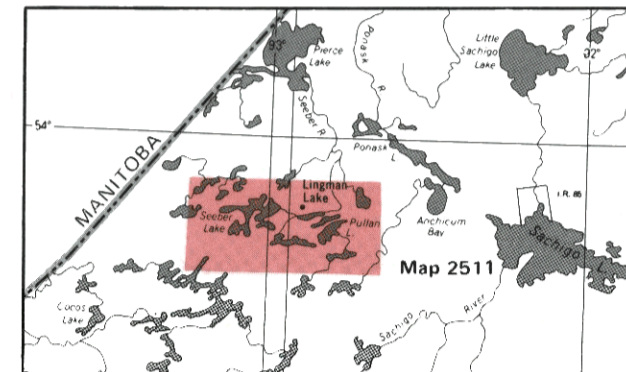


Mines and Minerals Division  
Ontario Geological Survey  
**MAP 2511**  
**PRECAMBRIAN GEOLOGY**  
**LINGMAN LAKE AREA**  
**DISTRICT OF KENORA**  
**(PATRICIA PORTION)**

NTS References: 53 F/14.15  
ODM-GSC Aeromagnetic Maps: 3665G, 3673G  
ODM Geological Compilation Map: 2178  
Scale 1:50 000



\*Queen's Printer for Ontario, 1987  
Printed in Ontario, Canada  
Parts of this publication may be quoted if credit is  
given and the material is properly referenced.  
This map is published with the permission of V. G. Milne,  
Director, Ontario Geological Survey

**LEGEND**

- PHANEROZOIC**  
**CENOZOIC**  
**QUATERNARY**  
**PLEISTOCENE AND RECENT**  
Till, sand, gravel, silt, clay, minor fluvial,  
lacustrine, and swamp deposits of gravel,  
sand, silt, and clay  
**UNCONFORMITY**
- PRECAMBRIAN**  
**MIDDLE OR LATE PRECAMBRIAN**  
**(PROTEROZOIC)**  
**MAFIC INTRUSIVE ROCKS**  
8 Unsubdivided  
8a Diabase, olivine diabase, porphyritic diabase  
(dikes and sills)  
**INTRUSIVE CONTACT**  
**EARLY PRECAMBRIAN (ARCHEAN)\***  
**ULTRAMAFIC INTRUSIVE ROCKS\***  
7a Serpentinized pyroxenite  
**INTRUSIVE CONTACT**  
**MAFIC TO INTERMEDIATE INTRUSIVE ROCKS**  
6a Quartz gabbro, porphyritic quartz gabbro  
(dikes and sills)  
**INTERMEDIATE TO FELSIC INTRUSIVE ROCKS**  
5 Unsubdivided  
5a Feldspar porphyry, quartz-feldspar porphyry  
(dikes and sills)  
5b Tonalite and/or granodiorite and/or granite  
(including dikes, sills)  
5c Tonalite  
5d Quartz porphyry, feldspar-quartz porphyry  
(dikes and sills)  
**INTRUSIVE CONTACT**  
**METAVOLCANICS AND METASEDIMENTS**  
**METASEDIMENTS**  
Chemical Metasediments  
4a Chert  
4b Magnetite ironstone  
4c Iron silicate rock  
Clastic Metasediments  
3 Unsubdivided  
3a Arsenite, granule conglomerate, wacke, mud-  
stone, minor intermediate to felsic tuff or  
crystal tuff  
3b Wacke, mudstone, arenite, quartz-granule  
conglomerate  
3c Micaceous wacke, mudstone, quartz-granule  
conglomerate  
3d Granule to pebble conglomerate  
**METAVOLCANICS**  
Intermediate to Felsic Metavolcanics  
2a Massive flow  
2b Massive flow, tuff, crystal tuff, minor arenite,  
granule conglomerate, wacke or mudstone  
2c Bedded tuff, crystal tuff, lapilli-tuff, minor  
arenite, granule conglomerate, wacke or  
mudstone  
Mafic to Intermediate Metavolcanics  
1 Unsubdivided  
1a Massive, fine-grained flow, tuff, minor wacke,  
mudstone or arenite, altered in places  
1b Pillowed flow, minor wacke, mudstone, or  
arenite  
1c Massive, medium-grained flow, minor wacke,  
mudstone, or arenite, altered in places  
1d Feldspar porphyritic flow, minor wacke,  
mudstone, or arenite, altered in places  
1e Bedded tuff, minor arenite, wacke, or mud-  
stone, altered in places  
1f Biotite-rich flow\*

**NOTES**  
a These rocks are grouped lithologically and the order does  
not necessarily imply age relationships between groups.  
b Possibly extrusive, at least in part.  
c May be intrusive. May be quartz gabbro related to unit 6a.  
d Intrusive in part.

**SYMBOLS**

- Slickenside lineation with plunge  
Geological boundary, observed  
Geological boundary, position  
interpreted  
Geological boundary, deduced  
from geophysics  
Thrust fault, teeth indicate  
direction of dip, (observed)  
Fault, arrows indicate horizontal  
movement, (observed, assumed)  
Minor folds with plunge  
Anticline, syncline  
Diamond-drill hole, (vertical,  
inclined)  
Shaft  
Property, surveyed, unsurveyed  
Glacial striae  
Esker  
Small bedrock outcrop  
Area of bedrock outcrop  
Bedding, top unknown, (inclined,  
vertical)  
Bedding, top (arrow) from grain  
gradation, (inclined, vertical,  
overturned)  
Bedding, top (arrow) from  
crossbedding, (inclined, vertical,  
overturned)  
Lava flow, top (arrow) from pillow  
shape and packing  
Fracture cleavage, (horizontal,  
inclined, vertical)  
Foliation, (horizontal, inclined,  
vertical)  
Mineral lineation with plunge

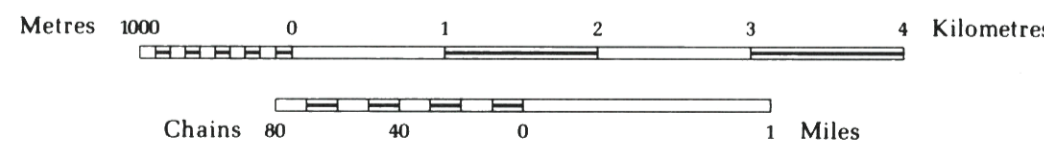
**PROPERTIES**

- International Minerals and Chemicals Corporation (Can-  
ada) Limited [1967]\*
  - Keneco Explorations (Canada) Limited [1960]
  - Lingside Copper Mining Company Limited (Lingside Gold  
Mines)
  - Roman Corporation Limited (Winora Gold Mines)
  - Silverco Mines Limited (Effie Johnson, International Min-  
erals and Chemicals Corporation)
  - Twin Gold Mines Limited (Lakely Mines, Lingman Lake  
Gold Mines)
- \* A date in square brackets indicates last year of recorded  
exploration activity.  
Locations of surveyed claims and diamond drillholes are  
approximate.  
L Leased claim, mining rights only.  
P Patented claim.

**ABBREVIATIONS**

- Ag Arsenopyrite  
asp Gold  
gn Galena  
mo Molybdenite  
pent Pentlandite  
sp Sphalerite

Scale 1:50,000



**SOURCES OF INFORMATION**

Base map derived from Maps 53 F/14 and 53 F/15 of the  
National Topographic System  
Stull Lake-Sachigo River Area, District of Kenora (Patricia Por-  
tion), Ontario Department of Mines, Map 46c, scale 1:126 720  
or 1 inch to 2 miles. Accompanies report by J. Satterly, 1936:  
Geology of the Stull Lake Area, Ontario Department of Mines,  
Annual Report, Volume 46, Part 4, p.1-31, 1937.  
Seeber Lake, Kenora and Winnipeg Districts, Department of  
Mines and Natural Resources, Manitoba, Department of Mines  
and Technical Surveys, Canada, Ontario Department of Mines,  
Map 3665G, scale 1:63 360 or 1 inch to 1 mile, 1966.  
Pullan Lake, Kenora District, Department of Mines and Techni-  
cal Surveys, Canada, Ontario Department of Mines, Map  
3673G, scale 1:63 360 or 1 inch to 1 mile, 1966.  
Data has been obtained from unpublished maps in assessment  
records on file at the Assessment Files Research Office,  
Ontario Geological Survey, Toronto, and at the Resident Geolo-  
gist's Office, Ontario Ministry of Northern Development and  
Mines, Red Lake, particularly, the geological maps, aeromag-  
netic maps, and diamond drillhole logs of Effie Johnson, Inter-  
national Minerals and Chemical Corporation (Canada) Limited,  
Keneco Exploration (Canada) Limited, and Silverco Mines Lim-  
ited.  
Mineral Deposits records on file at the Geoscience Data Cen-  
tre, Ontario Geological Survey, Toronto.  
Data has been obtained from unpublished geological maps of  
Amoco Canada Petroleum Company Limited.  
Geology is not tied to surveyed lines.  
Magnetic declination at 93°00'00" West Longitude,  
53°52'30" North Latitude in January, 1982: 2°10'2" East,  
annual change: -11.4' (Division of Geomagnetism, Department  
of Energy, Mines and Resources, Canada).

**ACKNOWLEDGMENTS**

Digital scanning and output were provided by Canada Land  
Data System, Lands Directorate, Environment Canada.

**CREDITS**

Geology by B.C. Wilson, C.C. Pelletier, and D. Pakunc, 1981.  
Cartography by T.W. Watkins, Scientific Review Office, Ontario  
Geological Survey, 1987.  
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  
issued 1987.  
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:  
Wilson, B. C., Pelletier, C. C., and Pakunc, D.  
1987: Lingman Lake Area, District of Kenora (Patricia Portion),  
Ontario Geological Survey, Map 2511, Precambrian  
Geology Series, scale 1:50 000. Geology 1981.