PRELIMINARY SERIES

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

SHEET 53

LEGEND

Weighted legend blocks indicate map-units that appear on this map

SEDIMENTARY AND VOLCANIC ROCKS

PALAEOZOIC AND MESOZOIC

- 12 — Sedimentary rocks undivided

PROTEROZOIC

- 11 — Undifferentiated 9 and 10
- 10 — Mainly volcanic and derived metamorphic rocks
- 9 — Mainly sedimentary and derived metamorphic rocks

ARCHAEAN

- 7 — Undifferentiated 5 and 6
- 6 — Volcanic and derived metamorphic rocks, mostly andesite, basalt, dacite, and pyroclastic rocks; minor sediments and intrusions
- 5 — Sedimentary and derived metamorphic rocks, mostly greywacke, slate, and argillite; minor lava and pyroclastics

8 — Undivided 1 to 10, granite and granitoid rocks

INTRUSIVE ROCKS
(Relative age uncertain)

- 4 — Alkaline ring complexes and intrusions
- 3 — Basic intrusions, gabbro, diabase, diorite; may include undifferentiated ultrabasic rocks
- 2 — Peridotite, dunite, serpentinite; may include minor amounts of 1 and 3
- 1A — Anorthositic rocks

Geological boundary
Small isolated occurrence

IRON DEPOSITS

IRON FORMATIONS

Cherty iron-formation and derived metamorphic equivalents; granular or oolitic texture; associated with Proterozoic volcanic and sedimentary rocks; deposited in shallow restricted basins or in a continental shelf environment; sedimentary facies not distinguished

Cherty iron-formation and derived metamorphic equivalents, mostly banded magnetite and hematite jasper beds directly associated with Archaean volcanic and sedimentary rocks; sedimentary facies not distinguished

Iron-formation of uncertain location or extent, or inferred from magnetic data

Iron-formations selected for production of iron ore produced by concentration and beneficiation of quartz-magnetite and siderite-pyrite beds

Hematite and goethite ores forming stratigraphic units. (Steep Rock Range)

DEPOSITS ASSOCIATED WITH PLUTONIC ROCKS AND REPLACEMENT MASSES

Magnetite in skarn or contact metasomatic zones, or disseminated in schist or shear zones

Magnetite in alkaline, basic and ultrabasic rocks

Magnetite and titaniferous iron deposits in basic, ultrabasic, and anorthositic rocks

Ilmenite and Titanium rich magnetite deposits

OTHER TYPES OF IRON DEPOSITS

Veins and open space fillings

Iron-rich sand and gravel; placer deposits

Bog iron

Unclassified deposits

Iron recovered as a byproduct from treatment of other ores

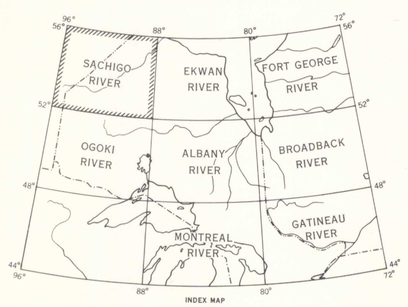
Geology compiled by G. A. Gross, 1963

Geology generalized from the following sources: Publications of the Geological Survey of Canada, the Department of Mines, Ontario and the Department of Mines and Natural Resources, Manitoba. Records of assessment work and files of the provincial departments concerned. Field investigations and personal communications from mining and exploration companies.

Roads
Other roads
Railway
Abandoned railway
Trading post
Mine
Lookout tower
International boundary
Interprovincial boundary
Intermittent lake
Marsh or swamp
Contours
Height in feet above mean sea-level

Base-map by the Surveys and Mapping Branch

Cartography by the Geological Survey of Canada, 1963



INDEX MAP

PUBLISHED, 1963
COPIES OF THIS MAP MAY BE OBTAINED FROM THE DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

PRINTED BY THE SURVEYS AND MAPPING BRANCH

MAP 20-1963
DISTRIBUTION OF IRON DEPOSITS
SACHIGO RIVER
SUPERIOR STRUCTURAL PROVINCE
ONTARIO AND MANITOBA

Scale: One Inch to 15.78 Miles = $\frac{1}{1{,}000{,}000}$

Miles
10 0 10 20 30 40 50

MAP 20-1963
SACHIGO RIVER
ONTARIO AND MANITOBA
SHEET 53