

LEGEND<sup>1</sup>

- 22 Red River Formation: Mottled dolomitic limestone
- EARLY PROTEROZOIC**
- Intrusive Rocks<sup>2</sup>**
- LATE- TO POST-KINEMATIC INTRUSIVE ROCKS
- 21 Garnet hornblende
- 20 Felsic pegmatite, pegmatitic granite
- 19 Magnetiferous biotite leucogranite
- a) massive magnetiferous biotite leucogranite and pegmatitic leucogranite
- b) weakly foliated biotite leucogranite, commonly magnetiferous, locally pegmatitic
- c) gneissic magnetiferous hornblende leucogranite, rarely pegmatitic
- d) quartz-phryic magnetiferous leucogranite
- SYN-KINEMATIC INTRUSIVE ROCKS**
- 18 Gneissic leucomonzogranite with xenoblasts of garnet and cordierite
- 17 Gneissic magnetiferous microcline-augen biotite granite and biotite-hornblende granite
- a) massive to slightly foliated microcline-porphyrific biotite granodiorite
- 16 Gneissic magnetiferous microcline-augen hornblende-biotite-monzoniorite, monzonite, quartz monzoniorite and quartz monzonite
- 15 Enderbite
- 14 Kanisota Falls granodiorite/granite: gneissic biotite granodiorite and granite, commonly magnetiferous; minor gneissic hornblende biotite tonalite, commonly magnetiferous
- a) gneissic biotite granite

GEOPHYSICAL ANOMALIES

- Ground electromagnetic anomalies, includes loop frame and terrain surveys
- Airborne electromagnetic anomalies

MINERAL OCCURRENCES, EXPLORATION ACTIVITY

- Mineral occurrence (>5% < 5%)
- py - pyrite
- po - pyrrhotite
- cpy - chalcopyrite
- ss - arsenopyrite
- s - undivided sulphides
- Iron oxide stain (strong, weak)
- Diamond drillhole with reference number keyed to Appendix B
- Trench

GENERAL SYMBOLS

- Rock outcrop, area of outcrop
- Geological boundary (defined, approximate, assumed)
- Fault (defined, approximate, assumed)
- Falls, rapids
- Swamp
- Buildings
- Power line
- Highway
- Railroad

STRATIGRAPHIC RELATIONS

Units 1 to 3 are of uncertain age. They are included in the Amisk Group, but could belong to the Missi Group. Their age relative to unit 4 is not known.

Units 4 to 9 are in approximate stratigraphic order. Unit 9 may be post-Missi.

Units 12 to 18 are listed in approximate order for the western half (units 12 to 14) and the eastern half (units 15 to 18) of the map area. Unit 12 predates M<sub>1</sub> metamorphism, units 13, 14, 16 and 17 are early-M<sub>2</sub>, and unit 18 is syn-M<sub>2</sub> anatectic.

Unit 19 cross cuts foliated, folded intrusions of units 16 and 17. Unit 20 cross cuts unit 12.

Unit 21 is a post-M<sub>2</sub> intrusion of unknown age.

INDEX TO AERIAL PHOTOGRAPHS

Aerial photographs numbered:

A 19729: 4-32

A 19729: 113-142

A 19736: 2-29

A 20169: 57-63, 90-115

A 20170: 106-132, 136-163

A 20173: 110-137

A 20174: 2-32

A 20175: 58-86

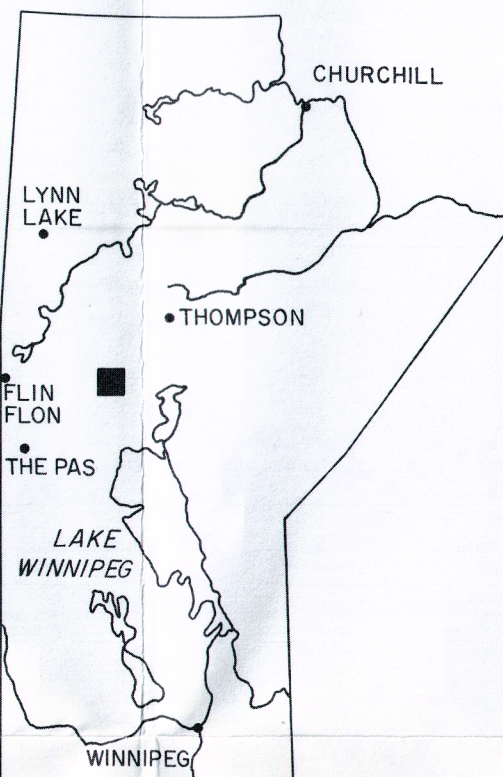
A 20184: 173-188

A 20806: 119-145

provide complete coverage at 1:15 840 (1 inch = 1320 feet), and may be obtained from the National Air Photo Library, Ottawa

INDEX MAP

The corresponding sheet of the National Topographic System is 63J-14 and part of 63J-11



NOTES

- Both supracrustal and intrusive rocks are exposed in a series of fault slices. Consequently stratigraphic relations could not always be accurately determined and are only approximate.
- Intrusive rocks are classified according to the IUGS sanctioned scheme presented in Streckeisen (1978).
- To the north, unit 4b correlates directly with exposures of the Burntwood River Metamorphic Suite (Lenton, 1981).

Geology by  
A.H. BAILES and J. MALYON, 1976

Cartography by  
C. SANDY

Geological Services Branch, Mineral Resources Division, Winnipeg  
To accompany MRD Geological Report GR63-2

The approximate magnetic declination at the east edge of the map-area is 12°28' East (1981) and is decreasing by 1.1 annually.

Printed 1985

FIGURE 27: Summary of exploration work in open assessment files (December, 1982), Saw Lake area.

Scale 1:50 000

KILOMETRES 0 1 2 3 4 5 6 7 8 9 10