1992

MANITOBA ENERGY and MINES

Map No. OF92-2-2

GEOLOGY OF THE BATTY LAKE AREA

(NTS 63N/2 and part of 63N/1)

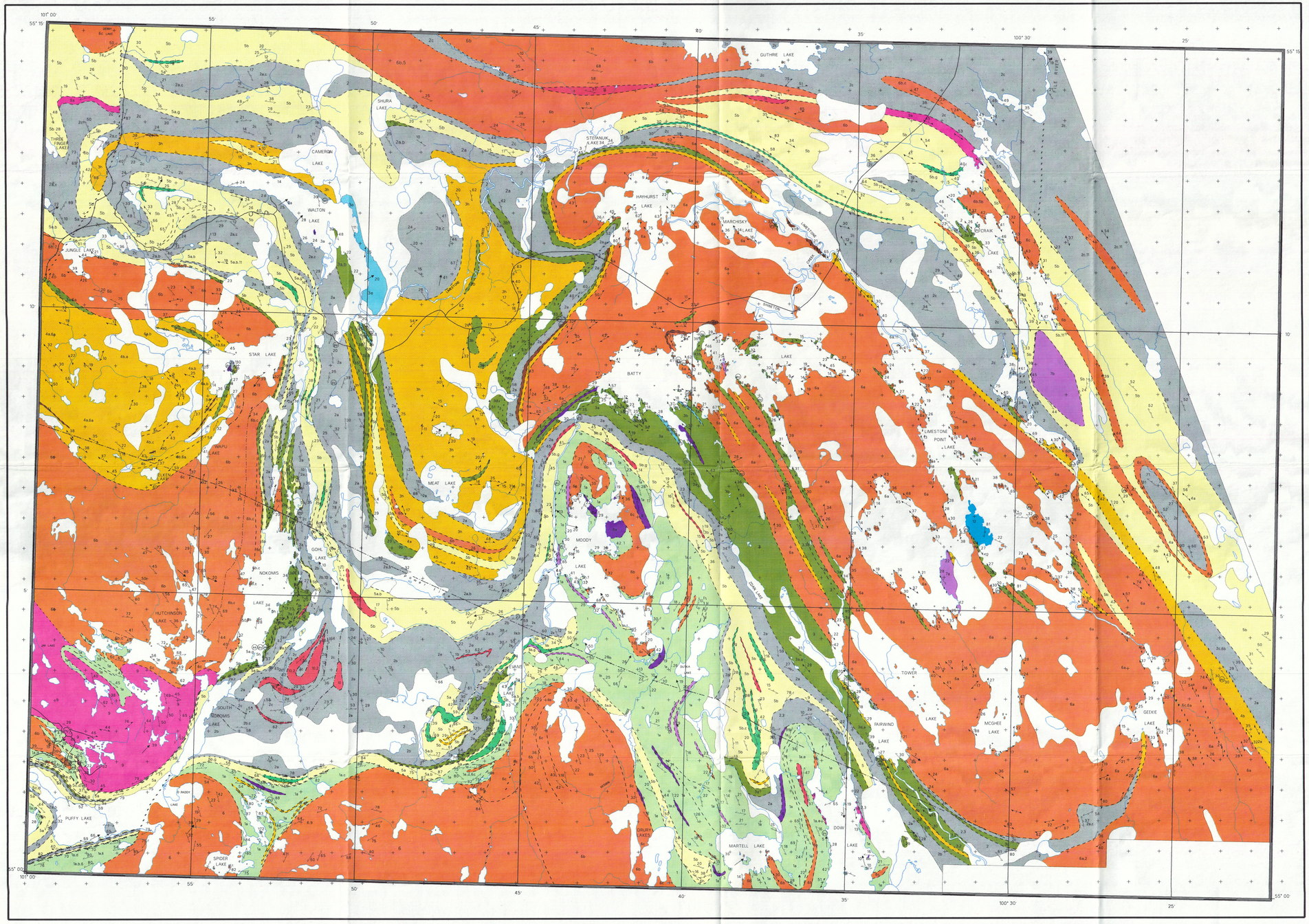
To accompany Open File OF92-2

Supersedes Preliminary Map 1988K-2

Scale 1:50 000

Kilometres

km 1 0 1 2 3 4 5 km



LEGEND

PHANEROZOIC
Ordovician
- Dolomite

PRECAMBRIAN
Early Proterozoic
INTRUSIVE ROCKS, ORTHOGNEISSES
- Pink granitic pegmatite
- Two-mica leucogranite
- Biotite leucogranite, pegmatite
- Foliated monzogranite and granodiorite
- Layered granitic gneiss
- Coarse grained amphibolite, metagabbro
- Hornblendite, metagabbro
- Ultramafic rock
- Quartz diorite, gabbro
- Mesocratic hornblende-biotite gneiss
- Quartz diorite
- Tonalite
- Quartz-rich tonalitic orthogneiss
- Tonalitic to granodioritic gneiss
- Granodioritic to granitic gneiss
- Plagioclase porphyry

MISSI GROUP
- Undivided paragneiss +/- magnetite, migmatite
- Quartz-feldspar-hornblende-biotite gneiss
- Quartz-rich paragneiss
- Meta-arkose
- Varicoloured paragneiss
- Pink felsic gneiss, felsic volcanic rocks
- Metaconglomerate and metasandstone
- Amphibolite, mafic volcanic and intrusive rocks
- Basal metaconglomerate, ribbon gneiss

SHERRIDON SUITE
- Quartz-rich gneiss +/- garnet
- Quartz-garnet gneiss +/- amphibole
- Amphibolite and intermediate gneiss
- Calc-silicate rock
- ×Calcareous gneiss, marble
- Cordierite-anthophyllite rock
- ×Garnet-biotite gneiss +/- hornblende
- ×Massive amphibolite
- ×Quartz-rich garnet-cordierite-biotite gneiss

UNNAMED GNEISSES
- Undivided, amphibolite predominant
- Diopside-bearing amphibolite
- Uniform amphibolite
- Garnetiferous amphibolite
- Intermediate gneiss
- Felsic gneiss, protoquartzite
- Rusty biotite-plagioclase-quartz gneiss
- Garnet-hornblende-biotite-graphite gneiss
- Garnet-biotite gneiss +/- cordierite+/- sillimanite

BURNTWOOD SUITE
- Undivided, metagreywacke, migmatite
- Garnet-biotite gneiss, metagreywacke
- Biotite gneiss, metagreywacke
- Metatexite derived from greywacke
- Diatexite derived from greywacke
- Muscovite-biotite gneiss, metagreywacke
- ×Garnet-biotite gneiss +/- sillimanite-staurolite

AMISK GROUP
- Undivided, predominantly amphibolite
- Amphibolite, metabasalt, metagabbro
- Amphibolite derived from pillow basalt
- Felsic gneiss, metadacite
- Felsic gneiss, metarhyolite
- Biotite gneiss +/- hornblende +/- garnet

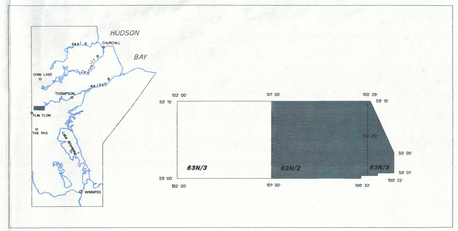
Note: Units and Symbols preceded by a × do not appear on this map sheet.

STRATIGRAPHIC NOTES: The Burntwood Suite (units 2-2f) overlies or is an age equivalent to the Amisk Group (units 1-1e). The relative ages of unit 3-3h and 4a-4i are uncertain; they may be equivalent to the Amisk Group. The Missi Suite (units 5-5h) unconformably overlies the Amisk Group, Burntwood Suite and some intrusive rocks of unit 6-6c and 9. Units 7-9 can be either pre- or post-Missi intrusions. Units 10-11 are post-Missi.

SYMBOLS

- Schistosity (Dip unknown, vertical, inclined)
- Schistosity and layering
- Gneissosity (Dip unknown, vertical, inclined)
- Cataclastic foliation
- Spaced cleavage
- Mineral/Stretching lineation
- Fault zone with slivers of various rock types
- Geological contact (approximate, assumed, gradational)
- Fault (approximate, assumed)
- Area of no outcrop, swamp
- Mineral occurances: py - pyrrhotite; sp - sphalerite; cp - chalcopyrite; as - arsenopyrite; au - gold
- ×Trench with sulfides

INDEX MAP



This is a preliminary product of the Shield-Margin project, a co-operative geoscience project operated within NATMAP, Canada's national mapping program. Map production was funded in part through the Canada-Manitoba Partnership Agreement on Mineral Development (PAMD).

The map was digitized and produced by the GIS Laboratory, Department of Geology, University of New Brunswick, Fredericton, New Brunswick.

Geology by H. V. Zwanzig and D. C. Schledewitz, includes geological data of P. G. Lenton and from GSC Paper 81-21.