Manitoba
Energy and Mines

MDS MAP NO. 22 (1994)

MINERAL DEPOSITS AND OCCURRENCES IN THE FLINTSTONE LAKE AREA (52L/11) MANITOBA

To accompany Report No. 22 of the Mineral Deposit Series

MANITOBA MINERAL DEPOSIT SERIES

The Mineral Deposit Series is designed to provide the exploratorist with an up-to-date reference and accurate geographic locations for known mineralization within the Province. A descriptive classification of the mineralization into *deposit types* will assist mineral exploratorists in the formulation of exploration strategies.

Mineral *occurrences* with known tonnage and metal grades are designated as *deposits* and are highlighted with bold deposit type symbols. Where more than one deposit type is known to occur at a locality, the deposit type with the greatest economic potential is indicated. For example, a 30 cm thick solid sulphide layer of the massive sulphide deposit type is indicated instead of a 2 m thick graphitic sulphide layer of the chemical sediment deposit type at the same locality. Mineral occurrence data not displayed on the map are referenced in a companion report to enable the exploratorist to modify the classifications in keeping with new developments or concepts.

The basic publication unit for the Mineral Deposit Series will be the 1:50 000 NTS sheet, on which deposits and occurrences are indexed consecutively. Where the density of data warrants the publication of a 1:20 000 map sheet (e.g. 63K/13SE), location numbers may not be consecutive and intervening numbers will be found on the remaining portions of that NTS map sheet (e.g. 63K/13SW).

The accompanying report contains a synthesis of known information for each locality on: Exploration History, Geological Setting, Mineralization, Deposit Type and References. The reports contain detailed maps that include precise locations, drill hole and trench locations and wherever possible detailed geological maps of the property. The data base used to derive the reports will reside in active mineral deposit files in the possession of the mineral deposit geologists at the Geological Services Branch.

This Mineral Deposit Series will be updated periodically as new information becomes available. Consequently, any errors, omissions or suggestions for improvement should be brought to the attention of the Director, Geological Services Branch.

GEOLOGICAL LEGEND

BLACK RIVER GRANITIC SUITE

10 — Granite, granodiorite

MASKWA LAKE PLUTON

9 — Tonalite, granodiorite

BIRD RIVER GREENSTONE BELT

Gabbro, peridotite

Basalt

MANIGOTAGAN GNEISS BELT

6 — Gneissic tonalite

5 — Felsic to intermediate gneissic rocks, migmatitic paragneiss

RICE LAKE GREENSTONE BELT

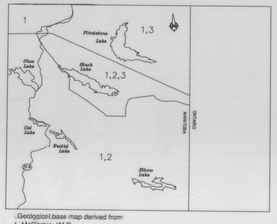
4 — Felsic to intermediate intrusive rocks

3 — Greywacke, argillite, sandstone, conglomerate

2 — Intermediate to mafic volcanogenic sedimentary rocks

1 — Felsic volcanic rocks

GEOLOGICAL MAP SOURCE



Geological base map derived from

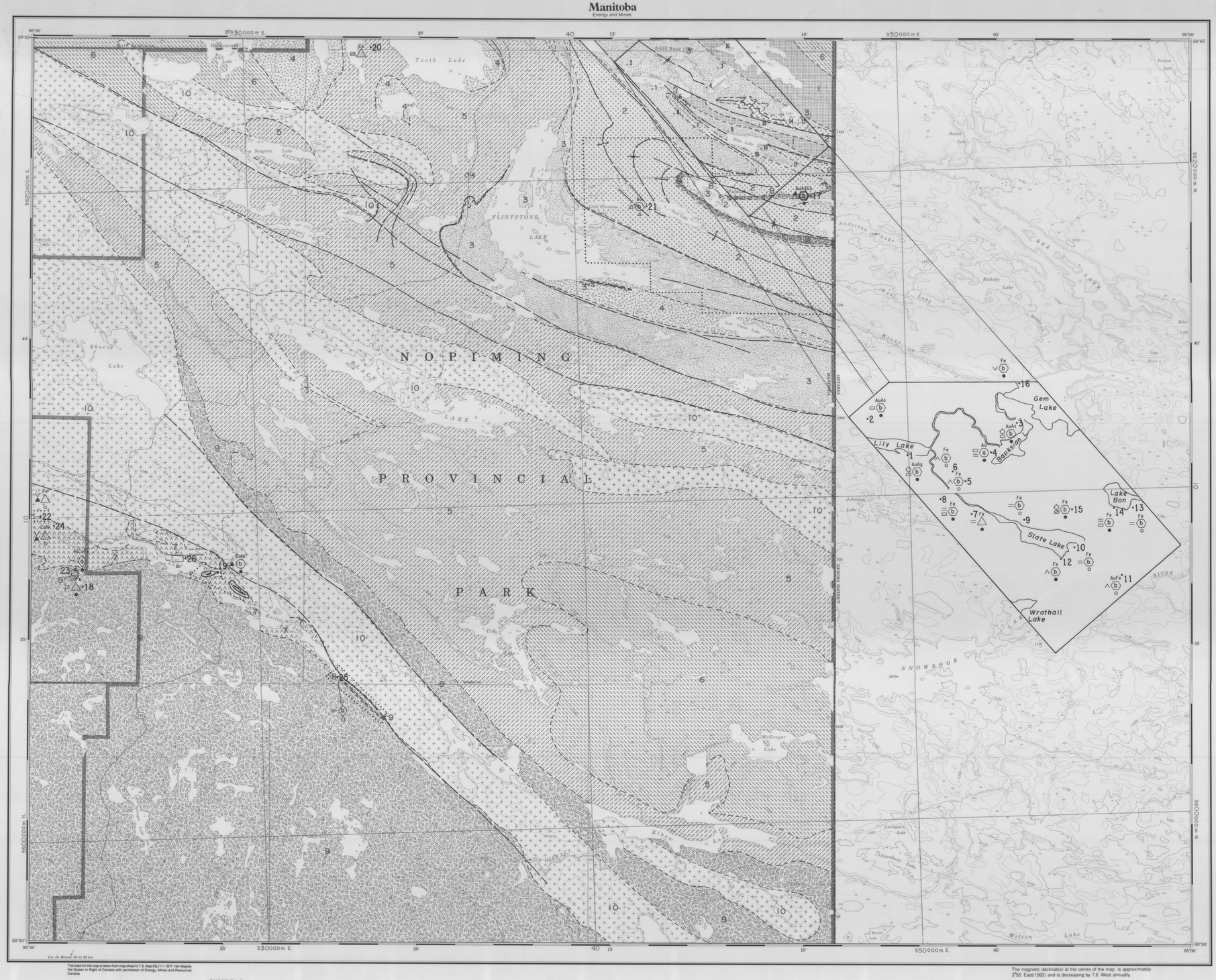
1. McRitchie, W.D.
   1971: Geology of the Wanipigow-Winnipeg Rivers region, SE Manitoba; in Geology and geophysics of the Rice Lake region, southeastern Manitoba (W.D. McRitchie and W. Weber, eds.); Manitoba Mines and Natural Resources, Mines Branch, Publication 71-1, Geological Map 71/1, 1:253 440.
2. Cerny, P., Trueman, D.L., Ziehlke, D.V., Goad, B.E. and Paul, B.J.
   1981: Geology of the Cat Lake – Winnipeg River pegmatite field; Geological Map ER80-1-1, 1:100 000; in The Cat Lake – Winnipeg River and Wekusko Lake pegmatite fields, Manitoba; Manitoba Energy and Mines, Economic Geology Report ER80-1.
3. McRitchie, W.D. and Weber, W.
   1971: Flintstone Lake; in Geology and geophysics of the Rice Lake region, southeastern Manitoba (W.D. McRitchie and W. Weber, eds.); Manitoba Mines and Natural Resources, Mines Branch, Publication 71-1, Geological Map 69-4, 1:31 680.

U.T.M. COORDINATES FOR MINERAL DEPOSITS/OCCURRENCES

MINERAL OCCURRENCE NUMBER	U.T.M. NORTHING (METRES)	U.T.M. EASTING (METRES)
1	5622708	342516
2	5623475	341752
3	5623300	344552
4	5622705	344156
5	5622156	343649
6	5622358	343457
7	5621490	343748
8	5621933	343159
9	5621342	344787
10	5620759	345781
11	5620212	346688
12	5620535	345511
13	5621516	346955
14	5621530	346576
15	5621509	345767
16	5624093	344741
17	5619286	347262
18	5607872	324633
19	5608185	328768
20	5624225	333955
21	5619097	342213
22	5610070	323426
23	5608375	324398
24	5609780	323816
25	5604846	332339
26	5608656	327802

MINERAL DEPOSITS

Deposit #	Name	Tonnes/Grade	Status
21	Diana Mine	24 799/12.5 g/t Au	Closed



The base for this map is taken from map sheet N.T.S. Map 52L/11-1977. Her Majesty the Queen in Right of Canada with permission of Energy, Mines and Resources Canada.

The magnetic declination at the centre of the map is approximately 3°55' East(1992) and is decreasing by 7.6' West annually.

SYMBOLS

GEOLOGICAL SYMBOLS

- Geological boundary
- Fault
- Anticline
- Syncline
- Geophysical conductor
- Magnetic anomaly
- Area encompassed by Mineral Deposit File

TOPOGRAPHIC SYMBOLS

- Marsh, swamp
- Rock, island reef
- Contour
- Road

Mineral Deposit interpretation and compilation by

P. Theyer

Scale 1:50 000

KILOMETRES 1 0 1 2 3 4 5 KILOMETRES

MINERAL DEPOSIT TYPE

STRATABOUND MASSIVE SULPHIDE TYPE DEPOSITS
- a) Volcanic rock — associated
- b) Sedimentary rock — associated
- c) Alteration zone associated with a or b

CHEMICAL-SEDIMENT TYPE DEPOSITS
- a) Sulphide facies Iron Formation
- b) Oxide facies Iron Formation
- c) Carbonate facies Iron Formation
- d) Silicate facies Iron Formation
- e) Other chemical sediments

VEIN TYPE DEPOSITS
- a) Single vein
- b) Multiple veins or lenses
- c) Stockwork

MAGMATOGENIC TYPE DEPOSITS ASSOCIATED WITH MAFIC/ULTRAMAFIC ROCKS
- a) Disseminated
- b) Layered
- c) Net textured
- d) Podiform

DEPOSITS WITH PORPHYRY AFFINITIES

PEGMATITE TYPE DEPOSITS

CLASTIC SEDIMENT TYPE DEPOSITS

REPLACEMENT TYPE DEPOSITS

DISSEMINATED MINERALIZATION — NOT CLASSIFIED

IMMEDIATE HOST ROCK* TO MINERALIZATION

(Appendage in the 9 o'clock position)

- Rhyolitic volcanic rocks
- Dacitic volcanic rocks
- Intermediate volcanic rocks
- Basaltic volcanic rocks
- Ultramafic volcanic rocks
- Chert, cherty rocks
- Sericitic schist
- Chloritic schist
- Shale, slate, phyllite
- Sandstone, arkose
- Greywacke
- Quartzite
- Calc-silicate-rich rocks (limestone, dolomite)
- Chemical sediments
- Breccia
- Conglomerate
- Felsic intrusive rocks
- Intermediate intrusive rocks
- Mafic intrusive rocks
- Ultramafic intrusive rocks

*or metamorphic equivalent

TYPE OF MINERALIZATION

(Appendage in the 6 o'clock position)

- Trace (<1%*)
- Minor (1-10%*)
- Moderate (10 - 50%*)
- Near solid (50-75%*) to solid (>75%*)
- Near solid to solid stratified
- Near solid to solid zoned

*by volume

EXPLANATION OF MINERAL DEPOSIT AND OCCURRENCE SYMBOLS

AuCuZn ·1 — Occurrence location* and reference number

Mineral deposit

Mineral occurrence

Immediate host rock to mineralization

Type of mineralization

AuCuZn — Elements present (in order of increasing abundance)

*Exact locations indicated by a dot or outline of mineralization in solid black. Approximate locations indicated by an x.

MINERAL DEPOSIT MAP SERIES