



MANITOBA MINERAL DEPOSIT SERIES

The Mineral Deposit Series is designed to provide the explorationist 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 explorationists 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 graphic 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 explorationist 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

- 7

Mafic plutonic rocks
- 6

Felsic hypabyssal intrusive rocks
- 5

Felsic to intermediate intrusive rocks
- 4

Manigotagan gneisses
a) Migmatitic and oegmatitic paragneisses
b) Felsic to intermediate gneissic rocks
- 3

SAN ANTONIO FORMATION
Sedimentary rocks, chiefly composed of conglomerates and arkoses
- 2

RICE LAKE GROUP
Sedimentary rocks, composed of conglomerates, sandstones and mudstones
- 1

Felsic volcanic rocks
a) Pyroclastic
b) Flow
c) Tuff

SYMBOLS

- Geological boundary

Fault

Geophysical conductor

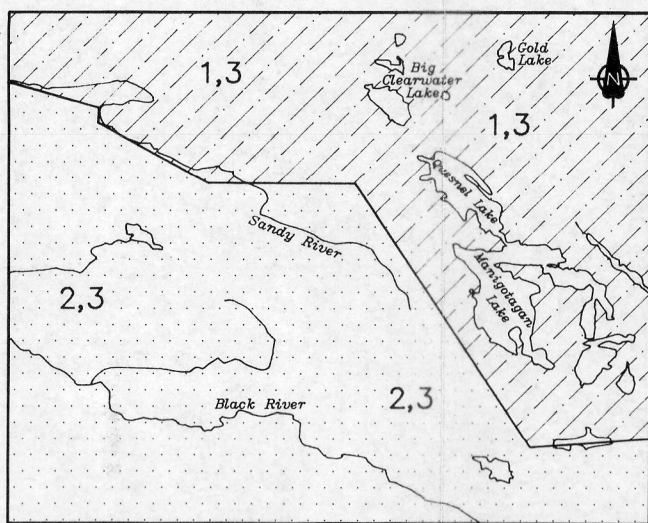
Area encompassed by Mineral Deposit File
- Marsh, swamp

Rock, island, reef

Contour

Road

GEOLOGICAL MAP SOURCE



- Geological base map derived or modified after:
- Weber, W.
1971: Geology of the Winnipeg River - Manigotagan River region; Map 71-1/4, 1:63,360. In Geology and Geophysics of the Rice Lake region, southeastern Manitoba (Project Pioneer), W.D. McFiche and W. Weber, eds. Manitoba Mines Branch, Publication 71-1.
 - McFiche, W.D.
1969: Black River (East); Manitoba Mines Branch, Preliminary Map 1969 F-2, 1:50,000.
 - Manitoba Energy and Mines
1987: Bedrock Geology Compilation Map Series, Preliminary Edition, Pointe du Bois, NTS 52L, 1:250 000

U.T.M. ZONE 15 COORDINATES FOR MINERAL DEPOSITS/OCCURRENCES

MINERAL OCCURRENCE NUMBER	U.T.M. NORTHING (METRES)	U.T.M. EASTING (METRES)	MINERAL OCCURRENCE NUMBER	U.T.M. NORTHING (METRES)	U.T.M. EASTING (METRES)
1	5650120	314180	24	5652075	313960
2	5650330	310192	25	5652000	313920
3	5648643	317064	26	5652160	315040
4	5640788	315810	27	5652340	314120
5	5653020	309210	28	5651880	314640
6	5652340	311350	29	5652000	314400
7	5652800	311900	30	5652720	314750
8	5652055	314540	31	5651800	315120
9	5651375	315640	32	5651880	315280
10	5650190	31210	33	5651600	315240
11	5640190	316860	34	5651440	315320
12	5652490	314075	35	5652730	316180
13	5652420	314065	36	5652020	316040
14	5649436	313665	37	5650530	316400
15	5652020	311970	38	5650350	316480
16	5651105	313300	39	5641500	315840
17	5652860	315700	40	5649050	314630
18	5652920	313800	41	5638200	315450
19	5652460	314240	42	5649880	309050
20	5652290	314400	43	5648500	315950
21	5652380	314100	44	5650180	315108
22	5652180	314020	45	5651180	314000
23	5652280	314000	46	5650980	312020

MINERAL DEPOSITS

Deposit #	Name	Tonnes/Grade	Status
2	Packback Mine	21 800/12.3g Au (Probable ore)	Exploration shaft (Caved in)
3	Moose	16 800/34.3g Au	2 exploration shafts (Caved in)
4	Gold Pan Gold Seal Mine	7.49kg Au (Total production)	4 exploration shafts (Caved in)

The magnetic declination at the centre of the map is approximately 4°48' East (1989) and is decreasing by 7.9' West annually.

This base for this map is taken from map sheet N.T.S. Map 52L/13-1986, Her Majesty the Queen in Right of Canada with permission of Energy, Mines and Resources Canada.

Mineral Deposit Interpretation and compilation by
P. Theyer and P.H. Yamada
Cartography by E. Graveley

Scale 1:50 000

KILOMETRES 0 1 2 3 4 5 KILOMETRES

MINERAL DEPOSITS AND OCCURRENCES IN THE MANIGOTAGAN LAKE AREA (52L/13), MANITOBA

To accompany Report No. 4 of the Mineral Deposit Series

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 METACLASTIC ROCKS

- a) Disseminated
b) Layered
c) Not 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

Basaltic volcanic rocks

Intermediate 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%) 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)

MINERAL DEPOSIT MAP SERIES

