

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

PALEOZOIC

7 Dolomitic limestone

PRECAMBRIAN

- 6 Felsic intrusions, with inclusions of supracrustal rocks
 - a) Porphyritic
- 5 Mafic intrusions
- 4 Conglomerate
- 3 Greywacke, siltstone, mudstone
- 2 Felsic volcanic rocks
- 1 Mafic to intermediate volcanic rocks and related sediments

SYMBOLS

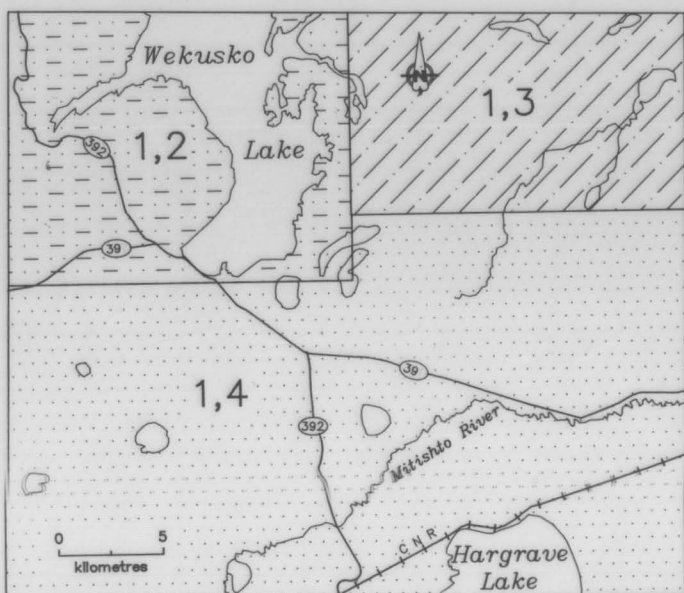
GEOLOGICAL SYMBOLS

- Geological boundary
- Fault
- Antiform
- Synform
- Geophysical conductor
- Area encompassed by Mineral Deposit File

TOPOGRAPHIC SYMBOLS

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

GEOLOGICAL MAP SOURCE



Geology base map derived or modified from:

1. Bell, C.K. 1978. Geology, Wekusko Lake Map - Area, Manitoba; Geological Survey of Canada, Map 1423A, 1:250 000.
2. Armstrong, J.E. 1941. Wekusko, Manitoba; Geological Survey of Canada, Map 665A, 1:63360.
3. Frarey, M.J. 1948. Crowduck Bay, Manitoba; Geological Survey of Canada, Map 987A, 1:63360.
4. McGregor, C.R., Bezys, R.K. and McCabe, H.R. 1990. Subsurface Precambrian structure of the Grand Rapids and Wekusko Lake map sheets (NTS 63J and 63J); Manitoba Energy and Mines, Minerals Division, Preliminary Map 1990M-2, 1:250 000.

U.T.M. 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	6061749	452263	19	6050393	438478
2	6059667	451880	20	6048321	436830
3	6061705	460985	21	6046467	437663
4	6058551	443189	22	6043435	439011
5	6064471	465550	23	6052804	449675
6	6041807	448735	24	6043407	446134
7	6060229	451265	25	6045812	444661
8	6060608	437611	26	6046492	446663
9	6062317	437203	27	6043984	450174
10	6060890	440421	28	6040771	450116
11	6057942	438013	29	6047913	445320
12	6066128	448022	30	6049940	457186
13	6054670	437541	31	6054996	465984
14	6056698	442346	32	6057272	456460
15	6055370	444691	33	6056758	457353
16	6056627	444412	34	6051555	461934
17	6056271	449038	35	6063706	448113
18	6052514	442214			

MINERAL DEPOSITS

Deposit #	Name	Tonnage/Grade	Status
4	Copper-Man	221 308/2.63% Cu, 4.46% Zn	Exploration

MINERAL DEPOSITS AND OCCURRENCES IN THE BUZZ LAKE (63J/12) AREA, MANITOBA

To accompany Report No. 21 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 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

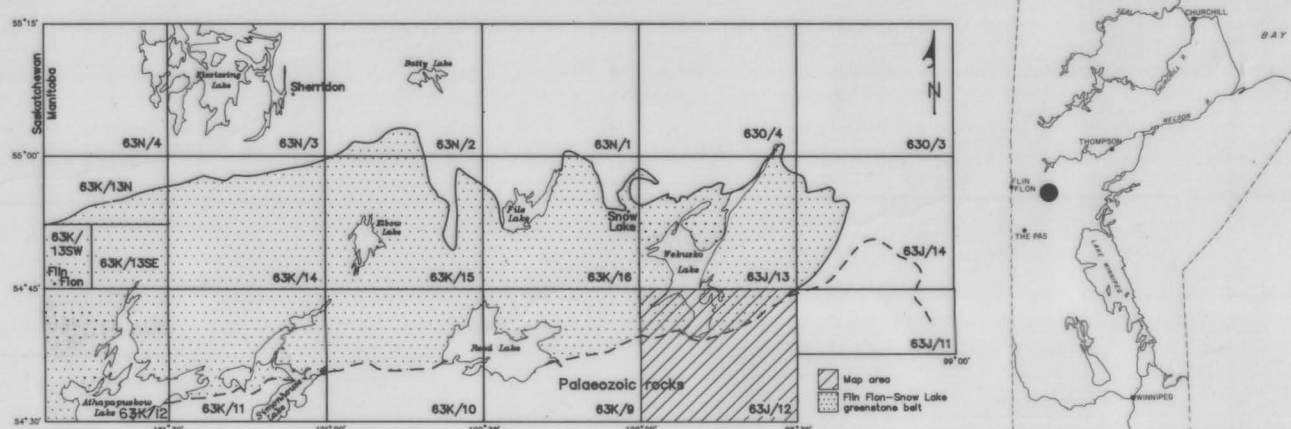
*by volume

EXPLANATION OF MINERAL DEPOSIT AND OCCURRENCE SYMBOLS

- AuCuZn 1
- AuCuZn 1
- 1 Occurrence location and reference number
- Mineral deposit
- Mineral occurrence
- Immediate host rock to mineralization
- Type of mineralization
- 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



The base for this map is taken from map sheet N.T.S. Map 63J/12 © 1991. 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 9°01' East (1991) and is decreasing by 9.6' West annually.

Mineral Deposit interpretation and compilation by

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Cartography by N. Barton, E. Truman and M. Carvalho

Scale 1:50 000

KILOMETRES 1 0 1 2 3 4 5 KILOMETRES