

# MINERAL DEPOSITS AND OCCURRENCES IN THE NAOSAP LAKE (63K/14) AREA, MANITOBA

To accompany Report No. 20 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
- Serpentite schist
- Chloritic schist
- Slate, 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
- AuCuZn

\*1 Occurrence location and reference number

Mineral deposit

Mineral occurrence

Immediate host rock to mineralization

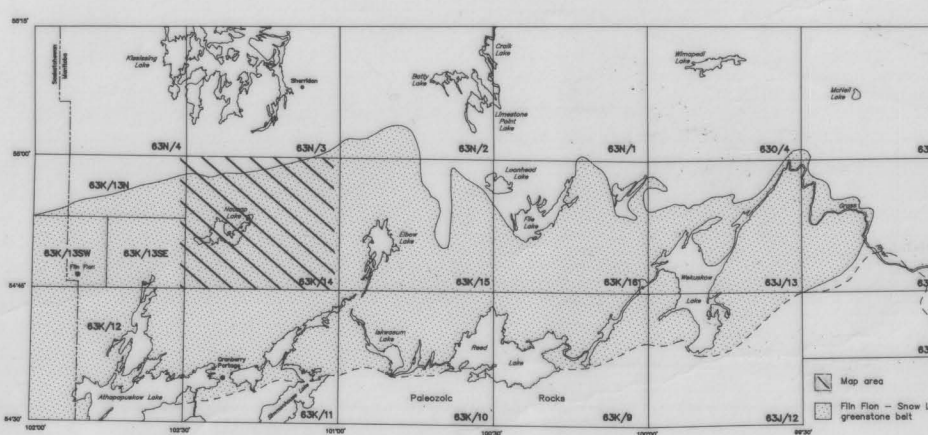
Type of mineralization

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



## MANITOBA MINERAL DEPOSIT SERIES

The Mineral Deposit Series is designed to provide the explorationist with an up-to-date reference with accurate geographic locations of 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 is the 1:50 000 NTS sheet, on which deposits and occurrences are indicated 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 resides 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

### INTRUSIVE ROCKS

- Gabbroic to dioritic rocks
- Granodiorite
- Gneissic biotite granodiorite; some gneissic hornblende granodiorite
- Massive biotite granodiorite and granite
- Porphyritic biotite granodiorite
- Intermediate intrusive rocks
- Gneissic hornblende-biotite-quartz diorite to hornblende granodiorite, some biotite granodiorite
- Gneissic hornblende diorite
- Gneissic diorite to monzonite

### QUARTZDIOGENIC GNEISS (ORTHOGNEISS)

### MISSI METAMORPHIC SUITE

- Amphibolite
- Metasandstones (quartz rich gneiss, quartzofeldspathic gneiss, hornblende-biotite gneiss and metaconglomerate)
- Metaconglomerate
- Felsic gneiss (metavolcanic)

### BURNTHOOD RIVER METAMORPHIC SUITE

### BIOTITE-GARNET GNEISS

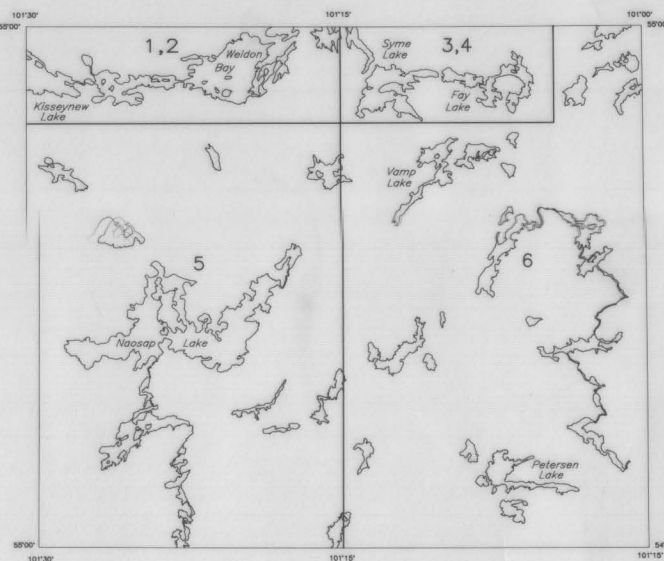
### AMISK GROUP

- Metasedimentary rocks
- Biotite-garnet schist
- Greywacke, siltstone, mudstone
- Amphibolite, calc-silicate rocks and felsic volcanic rocks
- Felsic volcanic rocks
- Mafic to intermediate volcanic rocks
- Amphibolite derived from (1a)

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

MINERAL OCCURRENCE NUMBER	U.T.M. NORTHING (METRES)	U.T.M. EASTING (METRES)
1	6093394	348672
2	6093680	346013
3	6094010	353838
4	6092757	351252
5	6093735	352547
6	6092236	348940
7	6095839	343001
8	6097107	342115
9	6090918	345404
10	6076507	344483
11	6079456	347389
12	6064311	340427
13	6086177	344761
14	6080338	353353
15	6084128	352717
16	6082728	345150
17	6082547	346086
18	6089814	361070
19	6092596	364650
20	6092905	366309
21	6071604	363636
22	6089881	361320
23	6080223	360836
24	6070710	362120
25	6092543	342359
26	6075387	342546
27	6076686	371033
28	6080157	363374
29	6089999	361022
30	6075987	339457
31	6092298	365057
32	6083211	341858
33	6088117	358479

## GEOLOGICAL MAP SOURCE



## Geological base derived from:

- From: E. and Gail G. 1981. Geology of the eastern vicinity of Kisseynew Lake, Manitoba. In Geological Survey of Canada, Current Research, Part A, Paper 81-1A, p. 311-313.
- Zwarg, H.V. and Senneker, D. 1984. Lobstick Narrows-Cleburn Lake, Manitoba Energy and Mines, Mineral Resources, Preliminary Map 1984K-1, 1:20 000.
- Schledewitz, D.C.P. 1990. Wapiti Lake - Ray Lake (NTS 63/15) In Manitoba Energy and Mines, Minerals Division, Report of Activities, 1990, p. 58-61.
- Parbery, D. 1988. Mineral occurrence studies - Flin Flon area, In Manitoba Energy and Mines, Minerals Division, Report of Field Activities, 1988, p. 49-55.
- Kalkowski, J. 1952. Wapiti Bay map area, Manitoba. Geological Survey of Canada, Memoir 270, 80p.
- McGlynn, J.C. 1959. Elbow-Heming lakes area, Manitoba. Geological Survey of Canada, Memoir 305, 72 p.

Deposit #	Name	Tonnes/Grade	Status
18	Vamp Lake	5 739 560/ 1.26% Cu, 1.9% Zn, 3.98 g/t Au, 13.7 g/t Ag	Exploration

## Mineral deposit interpretation and compilation by

G.H. Gale and L.I. Norquay

Cartography by C. Cuddy

Scale 1:50 000

KILOMETRES 1 2 3 4 5 KILOMETRES

## GEOLOGICAL SYMBOLS

- Geological contact, known
- approximate, assumed
- Fault
- Geophysical conductor

## TOPOGRAPHIC SYMBOLS

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