

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

INTRUSIONS

LATE TO POST-KINEMATIC INTRUSIVE ROCKS

13 Pegmatite, pegmatitic granite, magnetite-biotite leucogranite

SYN-KINEMATIC INTRUSIVE ROCKS

12 Gneissic leucocranite, magnetite-microcline-biotite granite, monzonite, quartz monzonite

11 Garnetiferous biotite-granite and granodiorite

EARLY KINEMATIC INTRUSIVE ROCKS

10 Gabbro

9 Pyroxenite

SUPRACRUSTAL ROCKS

MISSI GROUP

8 Protoquartzite and siliceous paragneiss

Basalt

a) massive

b) pillowed

c) gneiss

d) amphibolite

e) felsic to intermediate heterolithic lapilli tuff and breccia

Carbonate-rich sedimentary rocks and para-amphibolite

a) massive calc-silicate gneiss and para-amphibolite

b) garnet porphyroblastic para-amphibolite

c) layered calc-silicate gneiss, garnetiferous para-amphibolite, siliceous paragneiss

d) layered garnetiferous amphibolite and siliceous paragneiss

e) garnet-dioctite amphibolite and protoquartzite

5 Sandstone, siltstone, mudstone and polymictic conglomerate

AMISK GROUP

4 Greywacke, siltstone, mudstone

a) garnet-biotite gneiss +/- staurolite +/- sillimanite

b) garnet-biotite gneiss +/- staurolite +/- sillimanite

c) garnet-biotite gneiss +/- staurolite +/- sillimanite

d) garnet-biotite gneiss +/- staurolite +/- sillimanite

e) garnet-biotite gneiss +/- staurolite +/- sillimanite

SYMBOLS

GEOLOGICAL SYMBOLS

Geological boundary

Fault

Geophysical conductor

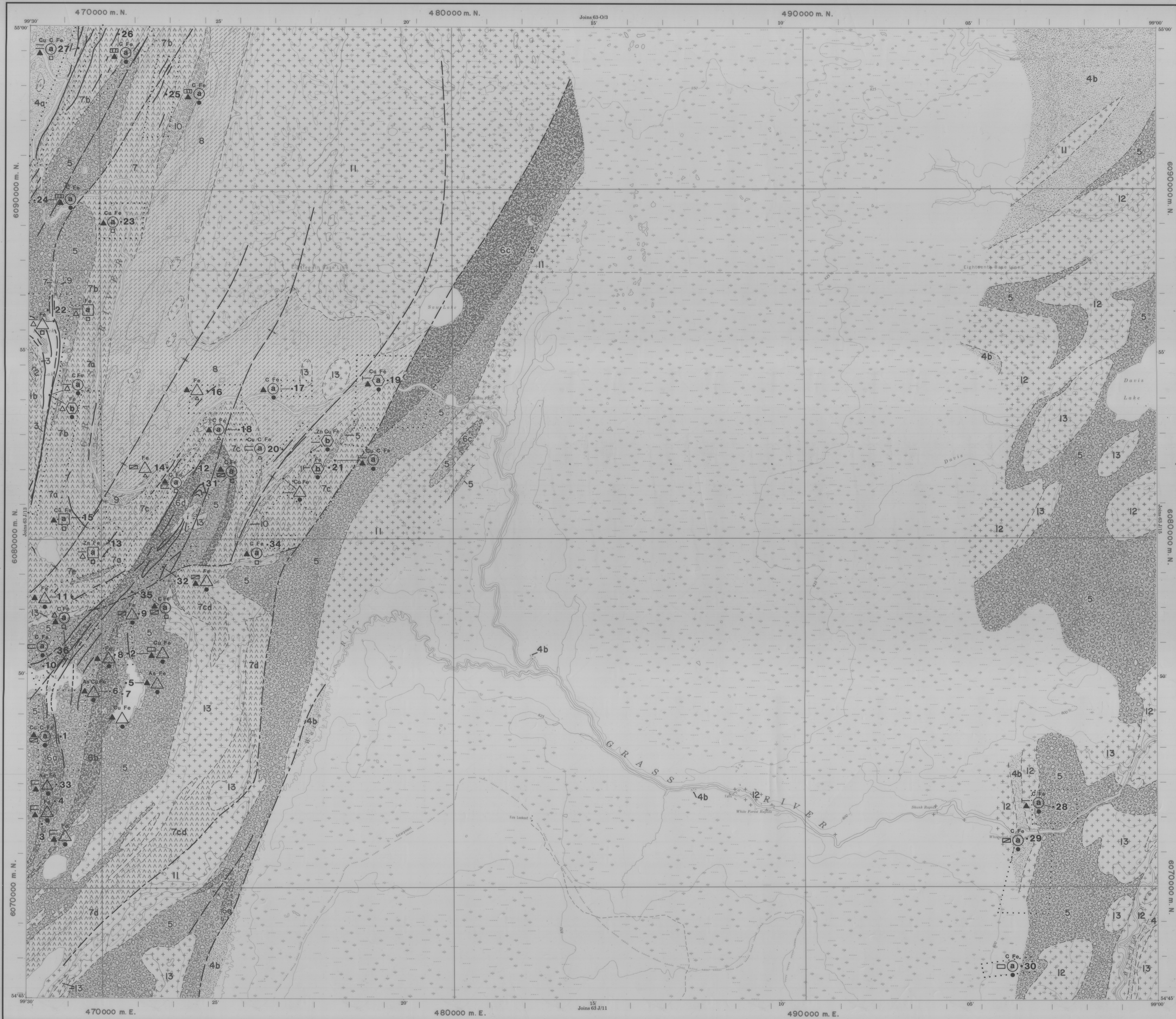
Area encompassed by Mineral Deposit File

Geological base derived from: Bates, A.H. 1985

Geology of the Saw Lake area: Manitoba Energy and Mines Geological Report GR83-2, 47 p.

U.T.M. COORDINATES FOR MINERAL 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	6075534	469198	19	6084967	478325
2	6076112	470778	20	6082586	475131
3	6071555	469292	21	6082259	476116
4	6072465	468662	22	6086606	468515
5	6075847	470483	23	6089146	470523
6	6075586	470339	24	6089992	468012
7	6075441	470378	25	6092757	471862
8	6076659	470343	26	6094468	470531
9	6077795	471060	27	6094079	469369
10	6076361	469345	28	6072319	469702
11	6078329	469184	29	6071387	469330
12	6080236	470601	30	6067743	466157
13	6079997	470222	31	6061879	473348
14	6080052	471067	32	6073453	471706
15	6080614	469476	33	6072969	468722
16	6084243	473010	34	6079844	474720
17	6084322	474422	35	6078997	470553
18	6083134	473893	36	6076748	468970



The base for this map is taken from map sheet N.T.S. Map 63J/14 - 1973. 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 8°38' East (1991) and is decreasing by 10.0' West annually.

Mineral Deposit interpretation and compilation by

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Cartography by E. Truman and L. Nguyen

Scale 1:50 000

KILOMETRES 0 1 2 3 4 5

MDS MAP NO. 12 (1991) MINERAL DEPOSITS AND OCCURRENCES IN THE SAW LAKE (63J/14) AREA, MANITOBA

To accompany Report No. 12 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) 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
- 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 (<1%)
- 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

