Manitoba
Energy and Mines

MDS MAP NO. 15 (1991)

MINERAL DEPOSITS AND OCCURRENCES IN THE AIKENS LAKE (52M/3) AREA, MANITOBA

To accompany Report No. 15 of the Mineral Deposit Series

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 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 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.

6 Mafic intrusive rocks

5 Felsic to intermediate intrusive rocks
a) Wanipigow River plutonic complex
b) Ross River Pluton
c) Aikens Lake pluton, Black River metasomatic suite

Hornblende-quartz-plagioclase gneiss and schist

3 Greywacke, sandstone, conglomerate

2 Felsic volcanic rocks

Mafic to intermediate volcanic and related sedimentary rocks

SYMBOLS

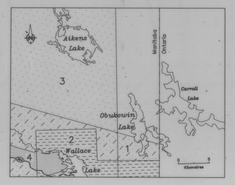
GEOLOGICAL SYMBOLS

- Geological boundary
- Fault
- Formational conductor/magnetic high (oxide facies iron formation)
- Geophysical conductor
- Area encompassed by Mineral Deposit File

TOPOGRAPHIC SYMBOL

- Road

GEOLOGICAL MAP SOURCE



Geology base map derived or modified from:

1. Gaboury, D. and Weber, W.
1984: Wallace Lake west (part of 52M/3); Manitoba Energy and Mines, Mineral Resources, Preliminary Map 1984R-1, 1:20 000.

2. McRitchie, W.D.
1971: Geology of the Wallace Lake-Siderock Lake area; in Geology and geophysics of the Rice Lake region, southeastern Manitoba, (W.D. McRitchie and W. Weber, ed.); Manitoba Mines and Natural Resources, Mines Branch, Publication 71-1, Geological Map 71-1/6, 1:31 680.

3. Russell, G.A.
1948: Wallace Lake area south-eastern Manitoba; Manitoba Mines and Natural Resources, Mines Branch, Preliminary Geological Map 47-1, 1:63 360.

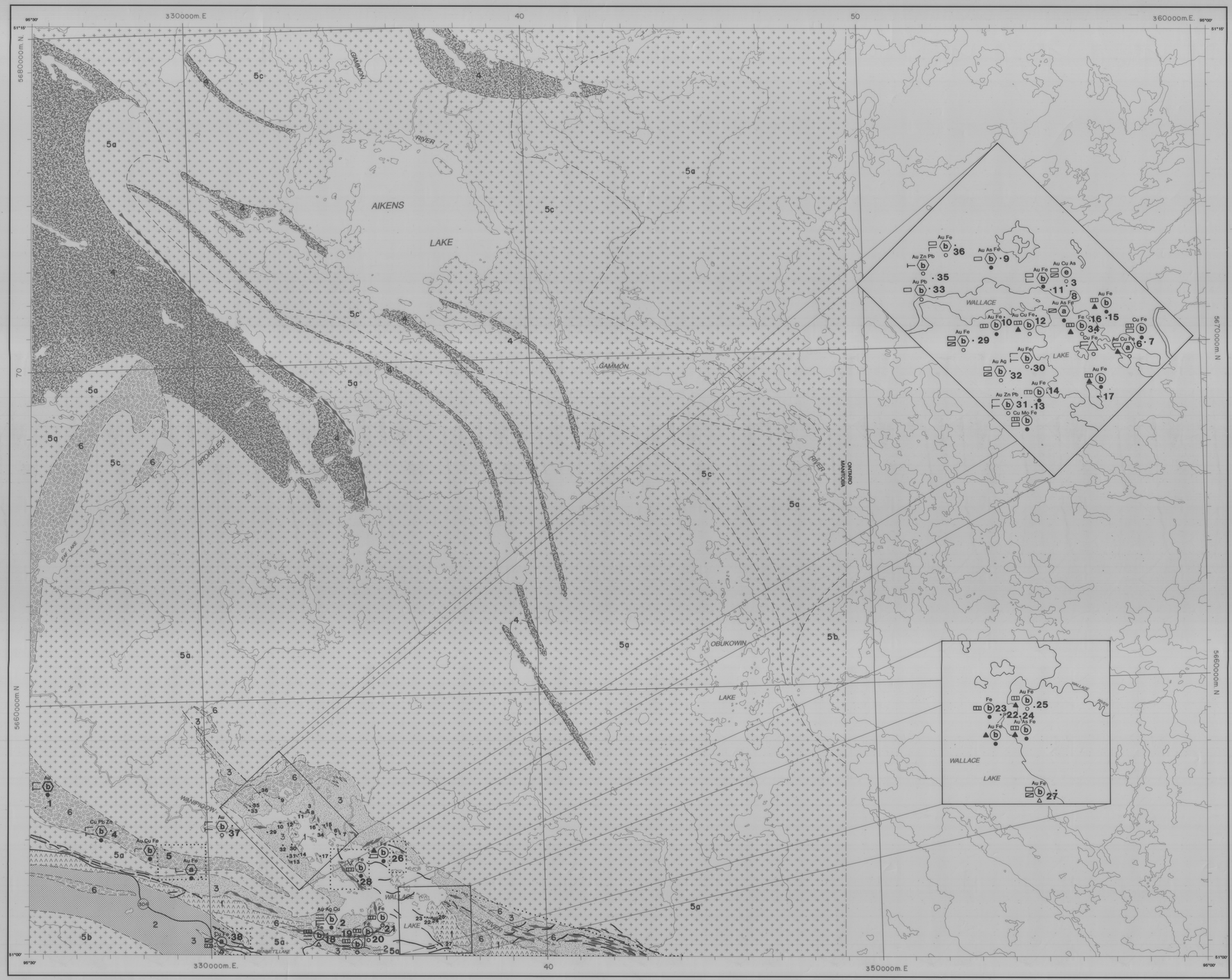
4. Weber, W.
1971: Geology of the Wanipigow River-Manigotagan River region; in Geology and geophysics of the Rice Lake region, southeastern Manitoba (W.D. McRitchie and W. Weber, ed.); Manitoba Mines and Natural Resources, Mines Branch, Publication 71-1, Geological Map 71-1/4, 1:63 360.

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	5656956	325217	20	5652984	334940
2	5653083	333835	21	5653046	335067
3	5656663	333002	22	5653343	336472
4	5656211	327141	23	5653342	336399
5	5655589	328714	24	5653331	336604
6	5655903	333822	25	5653448	336805
7	5655921	333952	26	5655319	335517
8	5656598	333092	27	5652400	337066
9	5657038	332176	28	5654492	334422
10	5656303	332191	29	5656023	331795
11	5656615	332793	30	5655638	332509
12	5656306	332600	31	5655282	332377
13	5655123	332497	32	5655686	332245
14	5655333	332702	33	5656696	331265
15	5656193	333495	34	5656860	333336
16	5656218	333272	35	5656820	331303
17	5655263	333343	36	5657244	331632
18	5652936	333481	37	5656259	330759
19	5652864	333862	38	5652901	330560

MINERAL DEPOSITS

Deposit #	Name	Tonnes/Grade	Status
1	Jeep Mine	1631/9/26.6 g/t Au	Past producer (1947-50)



The base for this map is taken from map sheet N.T.S. Map 52M/3 © 1976. 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 10°14' East (1991) and is decreasing by 10.0' West annually.

Mineral Deposit interpretation and compilation by

P. Theyer

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

Scale 1:50 000

KILOMETRES 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 AuCuZn ·1

·1 Occurrence location* and reference number

Mineral deposit

Mineral occurrence

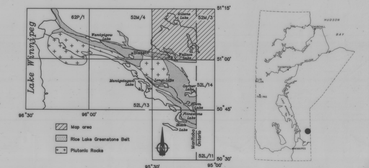
Immediate host rock to mineralization

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



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