

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 indexed consecutively. Where the density of data warrants the publication of a 1:250 000 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

INTRUSIONS

- Felsic intrusions: granite, granodiorite, tonalite
- Mafic intrusions:
 - a) Gabro, diorite
 - b) Ultramafic

KISSEYNE GNEISS TERRAIN

- Quartzofeldspathic gneiss and migmatite

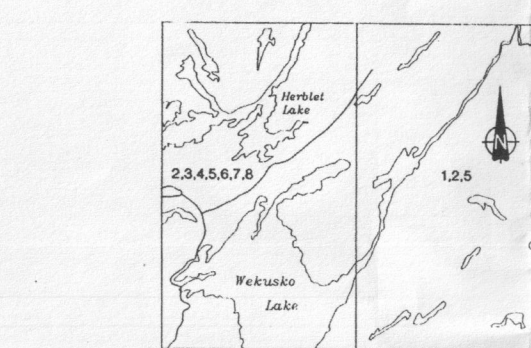
MISSI GROUP

- Sandstone and conglomerate
- a) Sandstone
- b) Conglomerate

AMISK GROUP

- Greywacke, siltstone, mudstone
- Felsic volcanic rocks
- Mafic to intermediate volcanic rocks and related sedimentary rocks:
 - a) Coarse grained (breccia)
 - b) Fine grained (tuff)
 - c) Heterolithic volcanic breccia

GEOLOGICAL MAP SOURCE



Geological base map derived or modified from:

1. Firrey, M.J. 1960. Crowduck Bay. Geological Survey of Canada, Map 987A, 1:50 000.
2. Armstrong, J.E. 1939. Wekusko, Manitoba. Geological Survey of Canada, Map 665A, 1:50 000.
3. Froese, E. and Moore, J.M. 1980. Metamorphism in the Snow Lake area, Manitoba. Geological Survey of Canada, Paper 78-27, 16 p.
4. Bales, A.H. and Galley, A.G. 1980. Geology of the Anderson Lake area, Manitoba Energy and Mines, Minerals Division, Preliminary map 1980-2, 1:5 000.
5. Gordon, T.M. and Gail, C. 1982. Metamorphism in the Crowduck Bay area, Manitoba, in Current Research, Part A, Geological Survey of Canada, Paper 82-1A, p. 197-201.
6. Bales, A.H. 1975. Geology of the Quay-Winnipeg Lakes area, Manitoba Mines, Resources and Environmental Management, Mineral Resources Division, Publication 75-2, 104 p.
7. Russell, G.A. 1957. Structural studies of the Snow Lake-Herb Lake area, Herb Lake Mining Division, Manitoba, Manitoba Mines and Natural Resources, Mines Branch, Publication 55-3, 33 p.
8. Stockwell, C.H. 1935. Herb Lake area, Manitoba. Geological Survey of Canada, Map 376A, 1:125 000.

UTM COORDINATES FOR MINERAL DEPOSITS/OCCURRENCES

MINERAL OCCURRENCE NUMBER	UTM NORTHING (METRES)	UTM EASTING (METRES)	MINERAL OCCURRENCE NUMBER	UTM NORTHING (METRES)	UTM EASTING (METRES)
1	608276N	437951E	64	607321N	436789E
2	608284N	438021E	65	607330N	436912E
3	608169N	438324E	66	607184N	451756E
4	609152N	439122E	67	607168N	450555E
5	609178N	437948E	68	607218N	454851E
6	609037N	438556E	69	606926N	449395E
7	608453N	444181E	70	607573N	448208E
8	608379N	442437E	71	607313N	449633E
9	608045N	445407E	72	607990N	451626E
10	609441N	447398E	73	606866N	448621E
11	608303N	446464E	74	607610N	456136E
12	608747N	437905E	75	607912N	436117E
13	608683N	453785E	76	607859N	439526E
14	607873N	436002E	77	607874N	442911E
15	608124N	445463E	78	607814N	438423E
16	608208N	443278E	79	607771N	440439E
17	607463N	440977E	80	606925N	453343E
18	606935N	442281E	81	607164N	451288E
19	607805N	444091E	82	607702N	446071E
20	608738N	436559E	83	607491N	439892E
21	608604N	459184E	84	607313N	439965E
22	608458N	459498E	85	607347N	452047E
23	608474N	452751E	86	609331N	456481E
24	608185N	453746E	87	607463N	438903E
25	608175N	451096E	88	608252N	446404E
26	608146N	437821E	89	608457N	446117E
27	608081N	436701E	90	608360N	447065E
28	608025N	456975E	91	608380N	446704E
29	608184N	437538E	92	608724N	444022E
30	608047N	442866E	93	608146N	452523E
31	608118N	442004E	94	608250N	441840E
32	608082N	440777E	95	608179N	442990E
33	608041N	442285E	96	608261N	445885E
34	608292N	437438E	97	608401N	447320E
35	607382N	439762E	98	608569N	446059E
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37	607565N	446756E	100	607370N	453626E
38	608462N	442374E	101	608574N	444124E
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42	607601N	436644E	105	607601N	467493E
43	608673N	452947E	106	608071N	467292E
44	607589N	439591E	107	607407N	454852E
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46	607388N	458150E	109	607332N	452921E
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51	607835N	442517E	114	607271N	452999E
52	608172N	451225E	115	607272N	452032E
53	609194N	444197E	116	607598N	457079E
54	608425N	464245E	117	607327N	452025E
55	608378N	465413E	118	607259N	452204E
56	608408N	463471E	119	607825N	452926E
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58	609227N	455288E	121	609094N	453866E
59	607577N	452820E	122	607864N	460945E
60	608066N	455815E	123	607814N	438210E
61	608278N	444253E	124	609056N	440646E
62	607326N	436462E	125	609136N	468871E
63	607281N	437899E	126	608980N	457293E

MINERAL DEPOSITS

Deposit #	Name	Tonnes/Grade	Status
67	Rev-Laguna	205 000 116.04 g/t Au	Past Producer
68	Ferro	77 000 113.97 g/t Au	Past Producer
69	Moosehorn-Ballast	<1000 139.89 g/t Au	Past Producer
70	Anderson Lake Cu	3.19 Mt 3.45% Cu	Past Producer
71	Stall Lake Cu-Zn	0.1% Zn	Producer
72	Stall Lake Cu-Zn	6.26 Mt 4.33% Cu, 0.48% Zn	Producer
73	Stall Lake Cu-Zn	23 000 15.0% Cu, 4.5% Zn	Past Producer
74	Stall Lake Cu-Zn	645 000 1.6% Cu, 2.85% Zn	Past Producer
75	Osborne Lake Cu-Zn	3.38 Mt 0.3% Cu, 1.48% Zn	Past Producer

Mineral Deposit interpretation and compilation by
M.A.F. Fedikow, P. Athayde and A.G. Galley
Cartography by E. Truman and J.C. Morales

Scale 1:50 000

KILOMETRES 1 0 1 2 3 4 5 KILOMETRES

SYMBOLS

- GEOLOGICAL SYMBOLS**
 - Geological boundary
 - Fault
 - Geophysical conductor
 - Thrust fault
 - Antiform, Synform
 - Anticline (upright, overturned)
 - Metamorphic isograds
 - Biotite-sillimanite-almandine
 - Biotite-sillimanite
 - Biotite-staurolite
- TOPOGRAPHIC SYMBOLS**
 - Marsh, swamp
 - Rock, island, reef
 - Contour
 - Road
 - Cabin

M.D.S. MAP NO. 14 (1993)

MINERAL DEPOSITS AND OCCURRENCES IN THE WEKUSKO LAKE AREA (NTS 63J/13), MANITOBA

To accompany Report No. 14 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 (Appendix 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 (Appendix 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

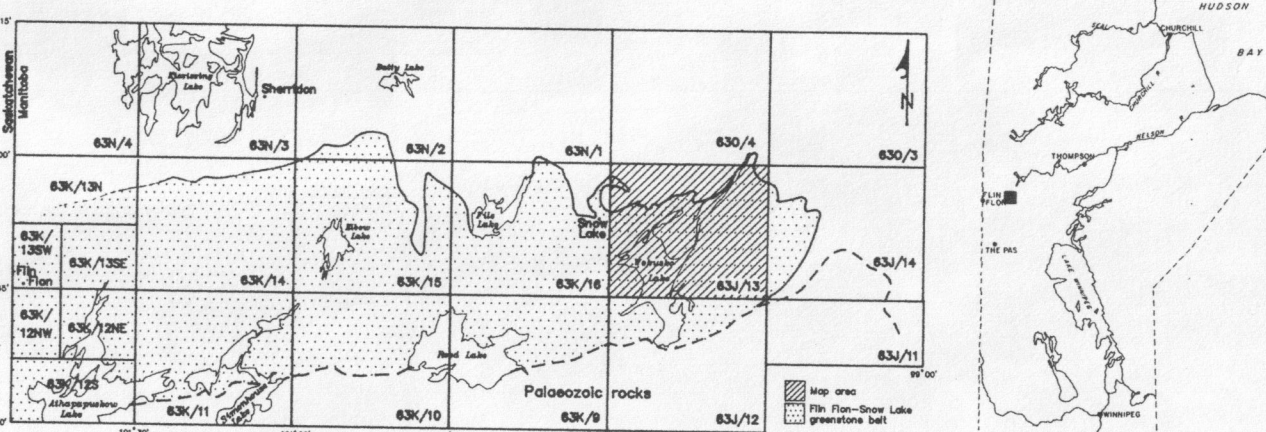
*by volume

EXPLANATION OF MINERAL DEPOSIT AND OCCURRENCE SYMBOLS

- 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 magnetic declination at the centre of the map is approximately 8° 42' East (1983) and is decreasing by 5.7' West annually.