Manitoba
Energy and Mines

MDS MAP NO. 16 (1996)

MINERAL DEPOSITS AND OCCURRENCES IN THE CRANBERRY PORTAGE AREA (63K/11), MANITOBA

To accompany Report No. 33 of the Mineral Deposit Series

MANITOBA MINERAL DEPOSIT SERIES

The Mineral Deposit Series is designed to provide the exploratorist 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 gold 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 of 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 1:20 000 map sheet (e.g. 63K/13E), location numbers may not be consecutive and intervening numbers will be found on the remaining portions of that NTS map sheet (e.g. 63K/13W). Where the density of data warrants the publication of a 1:100 000 map sheet (e.g. 64B/3), location numbers are consecutive within each 1:50 000 area.

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

Limestone, dolomite, dolomitic limestone

PRECAMBRIAN

INTRUSIVE ROCKS

Felsic to intermediate plutonic rocks
- a) biotite granite, minor aloskite
- b) syenodiorite, syenite, and syenite gneiss
- c) granodiorite, quartz diorite, and diorite

Mafic plutonic rocks
- a) gabbro, norite, hornblendite
- b) spessartite dyke complex

Epidote–biotite granite gneiss, and epidote–hornblende–biotite granite gneiss; derived in part from volcanic and sedimentary rocks

Felsic hypabyssal intrusive rocks; quartz eye granite, quartz porphyry, and feldspar porphyry; minor quartz diorite, quartz gabbro, and gabbro gneiss

Gabbro and diorite

AMISK GROUP

Felsic volcanic rocks

Mafic to intermediate volcanic rocks

SYMBOLS

- Geological contact
- Fault
- Mine
- Power transmission line
- Marsh, swamp
- Rock, island, reef
- Roads (gravel, trail)
- Railway

GEOLOGICAL MAP SOURCE

Geological base map derived or modified from:

Podolsky, T. 1951: Cranberry Portage (east half), Manitoba; Geological Survey of Canada, Preliminary Map 51–17, scale 1:40 000.

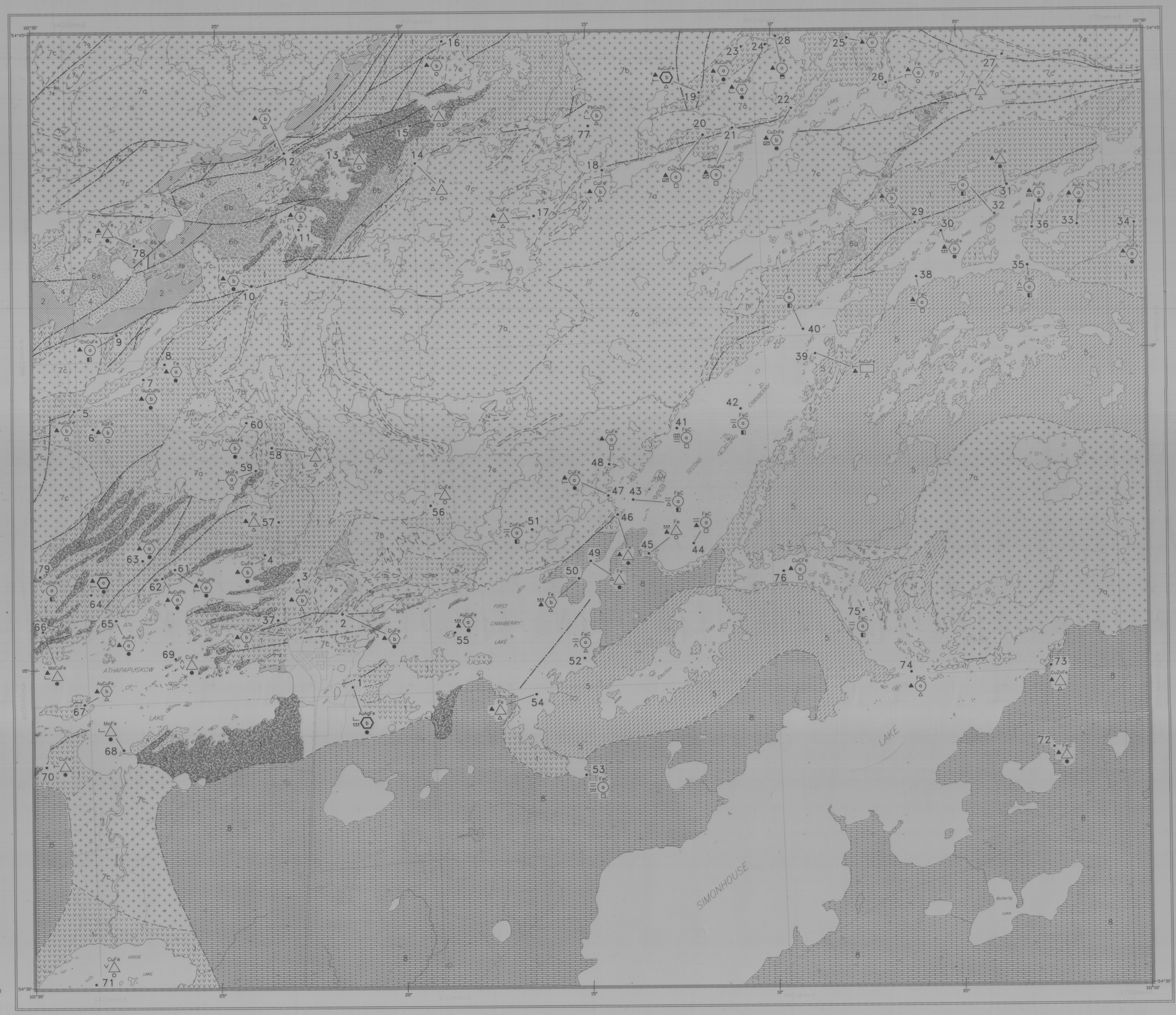
Podolsky, T. 1958: Cranberry Portage (west half), Manitoba; Geological Survey of Canada, Preliminary Map 29–1957, scale 1:63 360.

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	6050242	347677	41	6057432	357376
2	6052380	347461	42	6057934	359243
3	6053421	346225	43	6055397	356025
4	6054195	345282	44	6054059	357728
5	6058598	339920	45	6053809	356417
6	6058050	340439	46	6054976	355559
7	6059443	341959	47	6055545	355310
8	6059860	342588	48	6056453	355372
9	6060766	341230	49	6053656	354723
10	6061966	345023	50	6053158	354384
11	6063635	346650	51	6054638	353063
12	6065876	346315	52	6050832	354439
13	6065614	347922	53	6047423	354333
14	6065441	350104	54	6049829	352994
15	6068545	350005	55	6051719	350699
16	6068972	351025	56	6055445	350146
17	6063775	353477	57	6055136	345722
18	6065032	355512	58	6057308	345611
19	6067188	358410	59	6056658	345122
20	6065953	358472	60	6058067	344902
21	6066129	359334	61	6053866	342653
22	6066539	361057	62	6053620	342272
23	6068486	359889	63	6054159	341727
24	6068526	360397	64	6053222	340189
25	6068758	360701	65	6052442	340889
26	6067285	363835	66	6052196	338742
27	6067883	367233	67	6050024	339870
28	6068451	362762	68	6048656	340939
29	6063166	364498	69	6051287	342529
30	6062901	365245	70	6048246	338678
31	6064184	367203	71	6041863	339854
32	6063347	366812	72	6047744	367922
33	6062959	369188	73	6050120	367933
34	6062842	370840	74	6050074	363886
35	6061811	367103	75	6051927	362572
36	6062912	367880	76	6053162	360311
37	6059275	345588	77	6066340	355160
38	6061593	364477	78	6063350	341850
39	6059465	361452	79	6062300	338700
40	6060185	361135			

MINERAL DEPOSIT

Deposit Number	Name	Tonnes/Grade	Status
1	Gold Hill	120/25.7 g/t Au	Exploration
19	Gurney	92 000/8.5 g/t Au/24.2 g/t Ag	Post Producer (1937–39)
64	Kelsey	64.1/17.53 g/t Au	Exploration



The base for this map is taken from map sheet N.T.S. Map 63K/11, 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 1.3°47' East (1989) and is decreasing by 15.4' annually.

Mineral Deposit interpretation and compilation by
G. Gale and L. Norquay
Cartography by C.D. Cuddy

Scale 1:50 000

KILOMETRES 1 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
- Intermediate host rock to mineralization
- Type of mineralization
- AuCuZn Elements present (in order of increasing abundance)

MINERAL DEPOSIT MAP SERIES INDEX MAP

Map area