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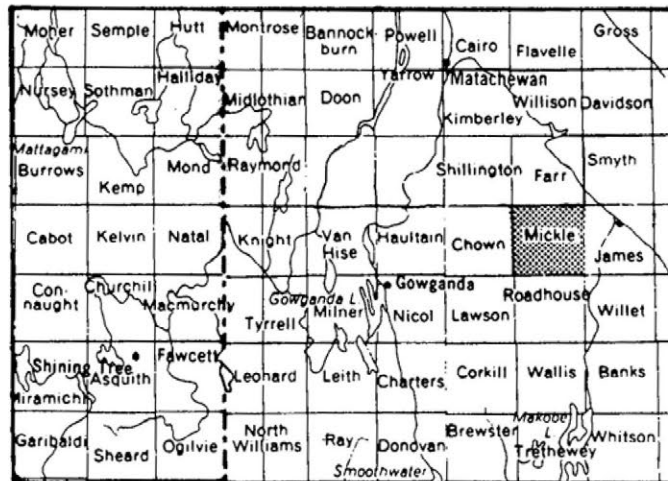
Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 498

MICKLE TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles



This project is part of the five year Canada-Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

NTS Number 41P/9 and part of 41P/10,15,16

Mining Claim Map Number: M-234

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

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Original Compilation by: Patricia Anderson, January 13, 1989

Date	Page Revised	Revised by	Date	Page Revised	Revised by

MICKLE TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
<i>SI Unit</i>	<i>Multiplied by</i>	<i>Gives</i>	<i>Imperial Unit</i>	<i>Multiplied by</i>	<i>Gives</i>
LENGTH					
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
AREA					
1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.548 090	L
MASS					
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map 1 and 2 of 3

Exploration Data Map 3 of 3

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	Yes	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM - OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. Anhydrite	△ fu. Fuchsite	▲ Ni. Nickel	△ st. Stone
△ ank. Ankerite	▲ gn. Galena	△ Nb Niobium	△ talc. Talc
△ anna. Annabergite	△ gt. Garnet	△ Pd Palladium	△ Te Tellurium
△ ap. Apatite	△ goe. Goethite	△ peat Peat	△ td. Tetrahedrite
▲ arg. Argentite	▲ Au Gold	△ pent Pentlandite	△ th. Thorite
▲ As Arsenic	△ gf. Graphite	△ Pt. Platinum	△ Th Thorium
△ asp. Arsenopyrite	△ gl. Gravel	▲ py Pyrite	△ thuc Thucholite
△ asb. Asbestos	△ gyp. Gypsum	△ pyl Pyrochlore	△ ti Titanite
△ ba. Barite	▲ hem Hematite	△ pyrl Pyrolusite	△ Ti. Titanium
△ be. Beryl	△ il Ilmenite	▲ po Pyrrhotite	△ tour Tourmaline
▲ Bi. Bismuth	▲ Fe Iron	△ q Quartz	△ trap Trap rock
▲ bn Bornite	△ IF. Iron Formation	△ qcv. Quartz carbonate vein	△ W. Tungsten
△ bran Brannerite	▲ jas Jasper	△ ra. Radioactive minerals	△ uran Uraninite
△ bruc Brucite	△ kaol Kaolinite (kaolin)	△ RE Rare Earths	△ U Uranium
△ Cd Cadmium	△ ky Kyanite	△ sd. Sand	△ verm. Vermiculite
△ calc. Calcite	▲ Pb Lead	△ sgl Sand and gravel	△ Y Yttrium
△ carb Carbonate	△ lim Limonite	△ ss Sandstone	▲ Zn Zinc
△ cel Celestite	△ Li. Lithium	△ scap Scapolite	△ zr. Zircon
△ cc. Chalcocite	△ mgst. Magnesite	△ shee Scheelite	▲ am. Amethyst
▲ cp. Chalcopyrite	▲ mag Magnetite	△ serp Serpentine	▲ hb. Hornblende
△ ch. Chert	△ mc Malachite	△ sh. Shale	▲ mal. Malachite
△ clay Clay	△ Mn Manganese	△ sid Siderite	
▲ Co Cobalt	△ mb Marble	△ si Silica	
▲ cob. Cobaltite	△ mar. Marcasite	▲ Ag Silver	
△ cb. Columbite	△ ma Marl	△ sl Slate	
▲ Cu Copper	△ mi Mica	△ sm Smaltite	
△ cor Corundum	△ ml Millerite	△ sod. Sodalite	
△ dol Dolomite	▲ mo Molybdenite	▲ spec Specularite	
△ ep. Epidote	△ Mo Molybdenum	▲ sp. Sphalerite	
△ ery Erythrite	△ mon Monazite	△ spd. Spodumene	
△ fel Feldspar	△ ne. Nephelite (nepheline)	△ staur. Staurolite	
△ fl Fluorite (flurospar)	▲ nc. Niccolite	△ stib. Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Alsof (Cameron, Mapes-Johnston)	Ag - major	T 0347	NMI 41P/09 Ag 4	OGS, 1968, GR 62, p. 41, 44 OGS, 1968, Map 2151 OGS, 1984, MP117, pp. 146-147
B.	Boland-Thomson (Vermont)	Ag-- major	T 0350	MRC 10, p. 357 NMI 41P/09 Ag 3	OGS, 1968, GR 62, p. 48 OGS, 1968, Map 2151 ODM, 1947, AR Vol 56, pt. 2, p. 106
C.	Mapes-Johnston (Claim RSC 79 or MR 423)	Ag - major Co, Ni, Cu, Bi, As - minor	T 0345	MRC 10, p. 349 NMI 41P/09 Ag 4 ODM-Ag-1433001	OGS, 1968, GR 62, pp. 41-43 OGS, 1968, Map 2151 OGS, 1981, MP 95, p. 94 OGS, 1982, MP 101, p. 106 OGS, 1983, MP 107, p. 111 OGS, 1983, MP 106, p. 87 Small amount of ore shipped in 1916 or 1917 and in 1940

MICKLE TOWNSHIP

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
D.	Mickle (McAuley and Rotondo Group)	Ag - major Cu- minor	T 0349	MRC 10, p. 357 NMI 41P/09 Ag 10	OGS, 1968, GR 62, pp. 46-47 OGS, 1968, Map 2151 1926, Small amount of ore removed ODM, 1927, AR Vol 36, pt. 1 p. 163
E.	Morrison, B.L. (Otisse)	Ag - major	T 0352	MRC 10, p. 351 NMI 41P/09 Ag 8	OGS, 1968, GR 62, p. 51 OGS, 1968, Map 2151 Past producer + reserves OBM, 1909, AR Vol 18, pt. 1, p. 127 OBM, 1910, AR Vol 19, pt. 1, p. 116
F.	Shane-Darragh (Cotley)	Ag - major Fe, Co, Ni, cp	T 0349	MRC 10, p. 352 NMI 41P/09 Ag 9	OGS, 1968, GR 62, pp. 45-46 OGS, 1968, Map 2151 Past producer of silver and cobalt, 1953-4 OBM, 1907, AR Vol 16, pt. 2, pp. 126-127

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
F. cont.	Shane-Darragh (Cotley)				ODM, 1954, AR Vol 63, pt.2, p. 132 ODM, 1956, AR Vol 65, pt. 2, p. 134, 137, 138
G.	Silverclaim Lake	Cu- major	T 0346		OGS, 1968, GR 62, pp. 43-44 OGS, 1968, Map 2151
H.	Welsh, G.S. (North American Silver Mining Co.)	Ag - major Pb - minor	T 0351	MRC 10, p. 350 ODM-AG-1433003	OGS, 1968, GR 62, pp. 49-50 OGS, 1968, Map 2151
I.	Otisse-Currie	Ag, Co, Ni, gn, cp, spec		NMI 41P/09 Ag 11 MRC 10, p. 351	ODM, 1909, AR Vol 18, pt. 1, p. 127 ODM, 1910, AR Vol 19, pt. 1, p. 116 GSC, 1913, Memoir 33, p.108 OGS, 1968, GR 62, p.49 + Map 2151
J.	Day (Downey)	Ag		NMI 41P/09 Ag 12	1913 - 10T silver ore removed from pit OBM, 1907, Vol 16, pt. 2, p. 127 OBM, 1914, Vol 23, pt. 1, p. 155

(#) Refer to enclosed property number for further data

6 MICKLE TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY				
COMPANY/AUTHOR (file number)																					
1	Consolidated Matachewan Mines, Ltd. or Matachewan Consolidated Mines, Ltd.				?																
2a	Cameron, J.A., optioned to Alsof Mines Ltd. 1962-1963			62				63 64													
2b				69 73																	
3	Alsof Mines, Ltd. (Mapes-Johnson or Cameron Mine)				63	62 63	62 63														
4	Candore Explorations, Ltd. (formerly Major-trans Oils & Mines, Ltd), Otisse claim (23)				64	64															

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
COMPANY/AUTHOR (file number)																			
5	Boyd-Campbell	NO	WORK	REPORTED															
6	Bailey				52			53											
7	Silver Lake Resources Inc. Leased to Teck Explorations Ltd., 1984 AFRO # 63.4635	79 80			80 82 83 84 85	80 82 83 84 85	83					79 80	79 80						
8	Cotley Mines, Ltd. - Shane-Darragh property Shane-Darragh (WD 904) Downey by litigation, 19?? (MR 12890) (10)							53 55 65 54											
					07 08 13														

7
cont.

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY				
COMPANY/AUTHOR (file number)																					
8 cont.	Colcourt Mines, Ltd. (1951) McWatters Gold Mines, Ltd. Cotley Mines, Ltd. -subsidiary of McWatters leased to: Silverclaim Lake Mines, Ltd., - subsidiary of Siscoe Metals Mines Cotley Mines, Ltd.			52	52																
9	Donaldson, E.T., 1964	No work		reported																	
10	Downey ⁸ (Derry Silver Cobalt Property, 1950 or part of Shane-Darragh Claims) Colcourt Mines Ltd.			07 13				07 08 13 14 50													
				52		52		61													

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
COMPANY/AUTHOR (file number)																			
11	Elk Lake Silver Mines, Ltd.																		
12	Fahrenheit Mining Co. Ltd. (Boland-Thompson Property) (13) Boland-Thompson Silver Mining Co. Fahrenheit Mining Co. Ltd. Quesnel, Fred and Desormeaux, P. Kennedy, W.S. option from Quesnel and Desormeaux Vermont Mines Ltd, 1960 (33)			09			09												
						46	46	46											
								49											
				54		54		54											
								55											
								60											

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
13	Fahrenheit Mining Co. Ltd., AF, Darry Silver Cobalt Property, Boland Lake Group Stevenson, C.B., (no log or location) Sylvanite Mines Ltd. (12)				46	48		50												
14	Hasaga Gold Mines Ltd. (J.A. Cameron Claims) John A. Cameron Matachewan Consolidated Mines Ltd., 19?? Burke, D.K. Alsof Mines Ltd. 1962-1963 (2a) Pickle Crow Gold Mines (Keevil Corp) option Quebec Metallurgical Industries Ltd. (15) Hasaga Gold Mines Ltd.		62		?	61		56												

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
15	Majortrans Oils & Mines Ltd. - optioned from D.S. Welsh (Ottise claims) (4)				62	62		62 63 64												
16	Hosking, W.J.				54	54														
17	Hyland Mickle and Farr Tps.																			
18	King, Henry			72 73																
19	Le Mans Explorations, Ltd. Ottise Claim (EB21): Ottise Mining Co.						08- 10													
	Le Mans Explorations, Ltd. & Rix Athabaska - optioned from G.S. Welsh				61- 62		61- 62	50 53 61 62												

cont.

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
		EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																					
19 cont.	Ottise-Curry Claim (MR 752): Ottise Curry Consolida- ted Silver Mines Ltd.						09														
20	Welsh Silver Mines, Ltd. 1968, formerly G.S. Welsh			71 72 73 74 75 76 77 78																	
21	North American Silver Mine -North American Silver Mining Co. Clinton & Steindler Syndicate Quesnel, 1950 Mr. Timm						10	51 62 10 08 50													
							08														
							51														

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
COMPANY/AUTHOR (file number)																			
22	Leonard, A.			53				53 54											
23	Quebec Metallurgical Industries Ltd. (14)				54														
24	Mapes-Johnston Mining Co. Ltd., 1909					19	13- 17	14 13 15 19											
25	Matachewan Consolidated Mines, Ltd.				54	54													
26	McAndrew & Bourke Claims					?		?											
27	McAuley, Howard				62														

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																				
		EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY				
COMPANY/AUTHOR (file number)																						
28	Mickle Silver Mines, Ltd. -acquired from H. Coles			25			26	34 57														
29	Northmount Mining Corporation, Ltd.							66														
30	Oliver, D.G., Cameron, J.A. Oliver, D.G. Symass Mining Syndicate lease (1940) Briggs Baird, 1942, leased dump and shipped ore Bryan Newkirk Group (Ralph Hurd) Alsof Mines						12 14 41 42	42 50 50 51 51 62														

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY				
COMPANY/AUTHOR (file number)																					
31	Silver Ore Zone Mines, Ltd.	63						63				63									
32	Stilmont Mining Co. Ltd.			58		58		59													
33	Vermont Mines, Ltd. Farr & Mickle Tp. (12) Norvalie Mines Ltd. 1962	62			62	62		60 62 62													
34	Wilkinson, G.							50													
35	York				13?	No Data Available															

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
1a	Alsof Mines, Ltd.	1	1963	157	00	-	318		
1b		2	1963	157	00	-	274		
2a	Bailey	1	1952	110	-45	2	126	hb	
		2	1952	110	-45	2	105	hb	
		3	1952	110	-45	2	132	cp, py	
		4	1952	110	-45	3	106		
		5	1952	110	-45	2	125.5		
		6	1952	080	-45	2	145.5	spec, py	
		9	1952	160	-35	2	54	hb	
3	Silver Lake Resources Inc.	80-1	1980	090	-29	18	670	cp, py, hem, mag, Ag	Ag
4	Silver Lake Resources Inc.	80-2	1980	090	-30	56+	56		
		80-3	1980	090	-28	14	980	py, mag, Ag hem, cp	Ag
5	Silver Lake Resources Inc.	80-4	1980	115	-25	22	250	py, Ag, cp	Ag
		80-5	1980	115	-55	16	150	cp	Ag
		80-6	1980	115	-25	14	425	py, cp	Ag
		80-7	1980	115	-30	40	140	cp	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name			DEGREES	DEGREES	FEET	FEET		
5 cont.	Silver Lake Resources Inc.	80-8	1980	115	-50	28	150		Ag
6	Silver Lake Resources Inc.	80-9	1980	270	-30	24	115	py	Ag
7	Silver Lake Resources Inc.	80-10	1980	090	-25	12	560	py, cp, Ag	Ag
8	Silver Lake Resources Inc.	80-11	1980	090	-35	46	323	mag, py, cp	Ag
		80-15	1980	120	-35	36	615	mag, cp, py hem	Ag
9	Silver Lake Resources Inc.	80-12	1980	090	-35	60+	60		
		80-13	1980	090	-45	104	611	py, cp, hem, mag, Co	Ag
10	Silver Lake Resources Inc.	80-14	1980	090	-35	19	755	py, cp	Ag
11	Silver Lake Resources Inc.	80-16	1980	090	-35	36	619	py, cp	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
12	Silver Lake Resources Inc.	80-17	1980	180	-45	14	215	mag, Ag, sp	Ag
13	Silver Lake Resources Inc.	80-18	1980	090	-35	14	599	mag, cp, py, Ag	Ag
14	Silver Lake Resources Inc.	82-1	1982	079	-36	20	366	mag, cp, gn, py, Ag, spec	Ag
		82-2	1982	079	-42	16	456	mag, cp, py, gn, hem	Ag
		82-3	1982	079	-48	16	526	cp, py, hem, spec	Ag
		82-4	1982	073	-38	20	377	py, hem, cp	Ag
		82-5	1982	085	-38	18	427	py, cp, mal, hem	Ag
		82-6	1982	085	-37	16	377	py, cp, hem	Ag
		82-7	1982	079	-57	16	177		Ag
15	Silver Lake Resources Inc.	82-8	1982	090	-60	16	1136	py, mag, cp, hem, spec	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
16	Silver Lake Resources Inc.	82-9	1982	090	-32	16	300	cp, py, hem, gn	Ag
		82-10	1982	090	-26	16	276		Ag
		82-11	1982	096	-30	16	305	Ag, py, cp,	Ag
		82-18	1982	073	-30	16	306	cp, py, hem	Ag
		82-33	1982	013	-30	22	508	cp, py, gn, hem, spec	Ag
17	Silver Lake Resources Inc.	82-12	1982	090	-24	24	446	cp, py	Ag
		82-39	1982	270	-25	10	476	cp, py	Ag
		82-40	1982	090	-25	10	593	cp, py, cob	Ag
18	Silver Lake Resources Inc.	82-13	1982	090	-22	16	354	py, gn, cp	Ag
		82-15	1982	090	-30	12	356	py, cp	Ag
		82-16	1982	090	-30	16	42	Ag, cp	Ag
		82-17	1982	090	-30	18	256	cp, py	Ag
19	Silver Lake Resources Inc.	82-14	1982	270	-40	15	845	py, hem, gn, cp	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
20	Silver Lake Resources Inc.	82-19	1982	090	-30	34	491	cp, Ag, gn, sp, nc	Ag
		82-21	1982	090	-35	12	407	Ag, cp, py, arg	Ag
		82-22	1982	073	-45	8	138		Ag
		82-23	1982	115	-30	11.5	336	py, cp	Ag
		82-25	1982	180	-45	10	151	cp, py	Ag
		82-26	1982	135	-40	12	207	py, cp	Ag
		82-28	1982	090	-38	10	173	py, cp, Ag	Ag
		82-29	1982	090	-32	10	157	cp, py	Ag
		82-30	1982	090	-25	30	387	cp, Ag, nc, py	Ag
		82-31	1982	090	-30	26	517	gn, py, cp	Ag, Co
		82-32	1982	090	-45				
		82-34	1982	270	-30	10	576	cp, py	Ag
		82-35	1982	090	-30	14	356	cp, py	Ag
		82-36	1982	094	-30	10	451	py, gn	Ag
82-39	1982	270	-25						
82-42	1982	090	-40	12	327	cp	Ag		
21	Silver Lake Resources Inc.	82-20	1982	160	-45	8	566	py, hem, cp	Ag
		82-24	1982	125	-35	8	417	py, cp, spec, hem	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
21 cont.	Silver Lake Resources Inc.	82-27	1982	125	-28	20	500	hem, py, cp, spec	Ag
22	Silver Lake Resources Inc.	82-37	1982	097	-40	10	127	cp	Ag
		82-38	1982	083	-40	10	127	cp	Ag
		82-41	1982	090	-30	14	586	py, cp, arg	Ag
		82-43	1982	090	-45	14	207	cp	Ag
		82-44	1982	090	-25	26	346	Ag, py, cp, cob	Ag
23	Silver Lake Resources Inc.	82-45	1982	090	-25	68	501		Ag
		82-46	1982	090	-25	16	616	cp, py, gn	Ag
		82-47	1982	090	-25	12	460	py, cp	Ag
24	Teck Explorations Ltd. (Silver Lake Resources property)	84-1	1984	086	-45		336		
		84-2	1984	085	-45		336		
25	Teck Explorations Ltd. (Silver Lake Resources property)	84-3	1984	088	-45	26	406	hem, py, po, Co	Ag
		84-4	1984	090	-45	9	406	py, cp, spec, mag	Ag
		84-5	1984	090	-45	9	406	py, cp, Zn Pb, hem	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name			DEGREES	DEGREES	FEET	FEET		
25 cont.	Teck Explorations Ltd. (Silver Lake Resources property)	84-6	1984	089	-45	5	406	Co, po, Pb, hem, py, cp, spec, Zn	Ag
26	Teck Explorations Ltd. (Silver Lake Resources property)	84-7	1984	091	-35	5	702	spec, hem, cp, py, Zn, Pb	Ag
		84-8	1984	088	-45	4	503	hem, py, cp, Pb, po, arg, Cu, Co	Ag
		84-9	1984	090	-45	7	506	hem, Cu, Pb py, cp, spec, mag	Ag
		84-10	1984	090	-45	8	506	cp, hem, Co, Ni, mag	Ag
		84-11	1984	091	-45	0	506	py, po, cp hem, Ag, arg	Ag
		84-12	1984	268	-35	11	734	cp, Ag, py, Pb, Co, arg, hem, mag	Ag
27	Teck Explorations Ltd. (Silver Lake Resources property)	84-13	1984	267	-35	16	830	py, Pb, hem, Ag, mag, cp, arg, py	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
28	Silver Lake Resources Inc.	W-85-01	1985	028	-30	9	300	mag, py, cp	Ag
		W-85-02	1985	059	-30	5	249	hem, mag, py	Ag
29	Silver Lake Resources Inc.	W-85-05A	1985	155	-45	85	498	mag, hem, py, cp, Ag	Ag
30	Silver Lake Resources Inc.	U83-1	1983	090	-11.5	-	301	py, cp	Ag
		U83-2	1983	076	+32	-	130	cp, py	Ag
		U83-3	1983	076	+10	-	123.5		Ag
		U83-4	1983	090	-11.5	-	110		Ag
		U83-5	1983	273	+33	-	698	py, gn	Ag
		U83-6	1983	273	-39	-	160	py	Ag
		U83-7	1983	291	00	-	121		Ag
		U83-8	1983	291	-29	-	206	py, gn, cp	Ag
		U83-9	1983	249	00	-	119		Ag
		U83-10	1983	249	-29	-	150		Ag
		U83-11	1983	231	00	-	124		Ag
		U83-12	1983	233	-30	-	150	cp, py	Ag
		U83-13	1983	309	00	-	138	Co	Ag
		U83-14	1983	306	+29	-	170	Co	Ag
		U83-15	1983	094	00	-	364	py, Ag, gn cob	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
30 cont.	Silver Lake Resources Inc.	U83-16	1983	105	00	-	401	py, cob	Ag
		U83-17	1983	085	00	-	357	py, cp, Co gn	Ag
31	Calcourt Mines Ltd.	No. 1	1952		-30			gn, cp	
32a	Cotley Mines Ltd.	0-1	1953		-59	15	261	nc, py	
32b		0-2	1953		-45	0	260	cp	
33	Silverclaim Lake Mines Ltd.	12	1955	067	-40	7	302	gn, arg, Fe cp	Ag
34	Quebec Metallurgical Industries Ltd.	C1	1954	268	-45	9	175		
		C2	1954	268	-45	4	118	cp	
		C10	1954	270		6	35		
		C11	1954	270		5	64.5	mo or arg	
35	Quebec Metallurgical Industries Ltd.	C3	1954	080	-30	6	346	cp	
		C4	1954	100	-45	11	180	cp	
		C5	1954	090	-45	4	303		

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
				DEGREES	DEGREES	FEET	FEET		
36	Quebec Metallurgical Industries Ltd.	C6	1954	090	-45	9	66	cp	
		C7	1954	090	-45	5	130	cp	
		C8	1954	100		5	50	cp	
		C9	1954	100		3	119	cp	
37	Burke, D.K., Cameron Property	1	1961	270	-50	0	138	cp, bn	
38	Hasaga Gold Mines Ltd.	2	1955	260	-45	9	247	py, arg,	Ag, Co
		3	1955	260	-45	4.5	274	cp, py, gn	Ag, Co
		4	1955		-45	4.5	250	gn, py, cp, Ag	Ag
		5	1955	105	-47	8.6	206	Ag	Ag
		6	1955			8.5	191	Ag	Ag
39	Pickle Crow Gold Mines	10	1964?	080	-45		57		
40	Hosking, W.J.	1	1954	283	-32	1.5	93	py, gn	Ag
		2	1954	283	-51	1.5	73	Co, Ag	Ag
		3	1954	283	-44	5	115		Ag
		4	1954	283	-32	5	52	gn, Cu, py	Ag
		5	1954	283	-51	6	60.1	gn	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name			DEGREES	DEGREES	FEET	FEET		
40 cont.	Hosking, W.J.	6	1954	283	-44	2	116	gn	Ag
		7	1954	283	-32	5	54	Co, Ag	Ag
		8	1954	283	-51	7	76	Ag, Co, gn	Ag
		9	1954	283	-44	10	99	gn, Ag	Ag
		10	1954	283	-32	9	60	gn, Cu	Ag
		11	1954	283	-51	7	71		Ag
		12	1954	283	-49.5	9	130	Ag	Ag
41	Le Mans Explorations Ltd.	1	1961	340	-30	7	376	py, cp	
		2	1961	180	-30	5	396	py, cp	
		3	1961	270	-45	3	353	py, cp	
42	Le Mans Explorations Ltd.	4	1962	000	-45	5	186	arg	
43	Le Mans Explorations Ltd.	6	1962	340	-30	5	418	Ag, arg, spec	
44	Majortrans Oil & Mines Ltd.	S62-8	1962	180	-45	12	313	py, mag, cp, arg	Ag
45	Majortrans Oil & Mines Ltd.	S62-9	1962	180	-60	6	945	py, mag, Co, hem, gn	Ag

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
46	Majortrans Oil & Mines Ltd.	S62-1	1962	197	No	logs available			
		S62-2	1962	185					
		S62-3	1962	204					
		S62-4	1962	185					
		S62-5	1962	150					
		S62-6	1962	170					
		S62-7	1962	170					
47	Matachewan Consolidated Mines Ltd.	1	1954	070	-70	9	143	hem, cp	
48	Matachewan Consolidated Mines Ltd.	2	1954	180	-45	0	142.5	py	
		3	1954	180	-60	2.6	200	cp, hem	
49	Matachewan Consolidated Mines Ltd.	4	1954	270	-60	11	200	cp, py, hem	Ag, Co
50	Matachewan Consolidated Mines Ltd.	5	1954	052	-58	8	183	py	Ag
51	Matachewan Consolidated Mines Ltd.	6	1954	070	-80	10	252	spec, cp	

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name			DEGREES	DEGREES	FEET	FEET		
52	McAuley, Howard	9	1962	250	-45	12	300	cp	
53	Vermont Mines Ltd.	1	1962	000	-45	2	143	py, hb, cp	Ag
		2	1962	000	-45	7	124	cp, mag	Ag, Au
		3	1962	000	-45	5	140.7	cp, py	Ag
54	Vermont Mines Ltd.	4	1962	340	-45	13	500	cp, jas	Ag
55	Vermont Mines Ltd.	5	1962	099	-45	13	500	gn, cp	Ag
		6	1962	100	-45	13	500	py, po, cp, gn, mag, jas, am, Ag?	Ag
56	Vermont Mines Ltd.	7	1962	250	-45	20	400	cp, po, spec	Ag

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
No data available as of January 13, 1989.					

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data available as of January 13, 1989.			

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
C.	Rb/Sr	Nipissing Diabase	MRC 10, p.349	2150 m.y.
C.	Rb/Sr	ore	MRC 10, p.349	2150 m.y.
E.	Rb/Sr	Nipissing Diabase	MRC 10, p.351	2150 m.y.
E.	Rb/Sr	ore	MRC 10, p.351	2150 m.y.
F.	Rb/Sr	Nipissing Diabase	MRC 10, p.352	2150 m.y.
F.	Rb/Sr	ore	MRC 10, p.352	2150 m.y.
H.	Rb/Sr	Nipissing Diabase	MRC 10, p.350	2150 m.y.
H.	Rb/Sr	ore	MRC 10, p.350	2150 m.y.

LANDSAT COLOUR PHOTO - NTS 31M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C ₁	136/10

on file in Cobalt office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

Alsof Mines Ltd.
Cotley Mines Ltd.
Downey Group
Hasaga Gold Mines Ltd.
Le Mans Explorations Ltd.
Northmount Mining Corp. Ltd.
Norvalie Mines Ltd.
Oliver-Cameron
Quebec Metallurgical Industries Ltd.
Rix Athabaska Uranium Mines Ltd.
Silmont Mining Co.
Silver Lake Resources Ltd.
Silver Ore Zone Mines Ltd.
Siscoe Metals of Ontario, Ltd.
Vermont Mines Ltd.

ODM GENERAL INDEX SEARCH

Words searched:

Alsof Mines Ltd.	Boland Lake
Arnoldi, Joan & Errol	Boland-Thomson Silver Mining Co.
Bailey, J.R.	Boland, Walter J.
Bailey, R.P.	Bourke
Baird, D.S.	Boyd-Campbell
Bear River	Brant Mines Ltd.
Boland, J.F.	Briggs

Index Volume	Listing:	Report Volume	Part	Page
1	<p>Bailey, R.E. Evidence by, before R.C., re: iron near Echo Lake</p> <p>Boland-Thomson Silver Mg. Co. Capital and date of charter</p> <p>Currie Silver Mine, See Otisse-Currie</p> <p>Darragh silver mine, SE of Silver lake, Mickle tp. See Shane-Darragh</p> <p>Downey, Larry. See Downey silver claims</p> <p>Downey silver claims, James and Mickle tps. Native silver Non-producing (1913) Work at</p> <p>Elk Lake Silver Mines, Ltd. Capital and date of charter</p> <p>Mapes, L.</p>	<p>*RC¹ 2</p> <p>*19</p> <p></p> <p></p> <p></p> <p></p> <p>*16</p> <p>*23</p> <p>*23</p> <p></p> <p>*16</p> <p>*17</p> <p>*18</p>	<p></p> <p>1</p> <p></p> <p></p> <p></p> <p>2</p> <p>1</p> <p>1</p> <p></p> <p>2</p> <p></p> <p>1</p>	<p>143 64</p> <p>48</p> <p></p> <p></p> <p></p> <p>127</p> <p>19</p> <p>55</p> <p></p> <p>177</p> <p>35</p> <p>127</p>
1	<p>Mapes-Johnston silver mine, Mickle tp. Capital and date of charter Officers of Prospects good Work by</p>	<p>*19</p> <p>*25</p> <p>*20</p> <p>*23</p> <p>*24</p> <p>*25</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>47</p> <p>123</p> <p>53</p> <p>155</p> <p>61,127</p> <p>123</p>

ODM GENERAL INDEX SEARCH

Words searched:

Bryan Newkirk Group	Colcourt Mines Ltd.
Burgess Creek	Coles, Harry
Burgess Lake	Consolidated Matachewan Mines Ltd.
Burke, D.K.	Consolidated Silver Mines Ltd.
Cameron, J.A.	Cotley Mines Ltd.
Candore Explorations Ltd.	Currie
Clinton & Steindler Syndicate	Darragh

Index Volume	Listing:	Report Volume	Part	Page
1	Mickle tp., Timiskaming			
	Bornite	*16	2	124
	Silver mining	*18	1	127
		*23	1	155
		*24	1	127
		*25	1	123
	See also Elk Lake silver area Mapes-Johnston silver m.			
	North American Silver Mining Co.			
	Capital and date of charter	*19	1	47
	Otisse-Currie silver mine, near Silver lake, Mickle tp.			
	Accident	*24	1	75,86
	Installing machinery	*18	1	49
	Work at (1908)	*18	1	127
	(1909)	*19	1	116
	(1913)	*23	1	155
	(1914)	*24	1	129
	(1915)	*25	1	125
	Otisse-Currie Consolidated Silver Mines Ltd.			
	Capital and date of charter	*18	1	44
	Otisse Mining Co.			
	Capital and date of charter	*18	1	44
	Shane, J.S.	*25	1	141
	Shane-Darragh silver mine, Mickle tp.			
	Notes by Knight	*16	2	126,127

ODM GENERAL INDEX SEARCH

Words searched:

Day	ENR Partnership
Derry Silver Cobalt	Fahrenheit Mining Co. Ltd.
DesOrmeaux, Paul	Hasaga Gold Mines Ltd.
Donaldson, E.T.	Henderson Lake
Downey, Larry	Hermence Lake
Echo Lake	Hilda Lake
Elk Lake Silver Mines Ltd.	

Index Volume	Listing:	Report Volume	Part	Page
1	Silver Lake, Mickle tp.			
	Calcite in veins	*16	2	124
		*19	2	159
	Claims staked	*20	1	18,20
	Huronian	*20	2	10
	Map showing location	*19	2	156
	Silver mining	*18	1	49
		*25	1	23
	See also Mapes-Johnston silver m. Otisse-Currie silver m.			
2	Brant gold mine, Mickle tp.			
	Diamond drilling	*32	4	75
	Operating	*27	1	70
	Rocks	*33	3	7
	Mapes-Johnston silver mine, Mickle tp.			
	Operations (1916)	*26		130
	Shut down	*28	1	151,152
	Mickle tp., Timiskaming			
	Silver mg. See Brant s.m. Mapes-Johnston s.m.			
	Mickle Silver Mines Ltd.			
	Capital and date of charter	35	1	59
	Morrison, Bruce L.			
	Acknowledgements to	32	6	94
		34	1	170,173
		35	1	55

ODM GENERAL INDEX SEARCH

Words searched:

Hosking, W.J.	Le Mans Explorations Ltd.
Hurd, Ralph	Leonard, A.
Hyland	Little Otisse
Johnston, A.W.	Majortrans Oils & Mines Ltd.
Johnston, E.E.	Mapes, F.L.
Kennedy, W.S.	Mapes-Johnston Mining Co. Ltd.
King, Henry	Marshy Lake

Index Volume	Listing:	Report Volume	Part	Page
2	Oliver, D.G. of Mapes-Johnston s.m.	*26		130
3	Boland, J.F. of Matachewan Consolidated Mines	49	1	78
	Boland, Walter J. of Matachewan Consolidated Mines (1933-1936) q.v.	46	1	35
	Brant Mines Ltd. Mapes-Johnston s.m. acquired by	46	1	233
	Cameron, J. Silver claim, Mickle tp.	46	1	233
	Coles, Harry of Mickle Silver Mines	36	1	163
	Mapes-Johnston silver mine, Mickle tp. Operations (1936)	46	1	233
	Producing	46	1	38
	Matachewan Consolidated Mines Ltd. Capital; officers; operations: (1933)	43	1	93
	(1934)	44	1	127
	(1935)	45	1	139
	(1936)	46	1	178
	(1937)	47	1	171
	(1938)	48	1	163
	(1939)	49	1	170
	Incorporated	43	1	39
	Profit tax (1936)	46	1	67
	(1939)	49	1	50

ODM GENERAL INDEX SEARCH

Words searched:

Matachewan Consolidated Mines Ltd.	Mickle Township
McAndrew	Morrison, B.L.
McAuley, Howard	North American Silver Mining Co.
McWatters Gold Mines Ltd.	Northmount Mining Corp. Ltd.
Mickle Creek	North Twin Lake
Mickle Silver Mines Ltd.	Norvalie Mines Ltd.
	Oliver, D.G.

Index Volume	Listing:	Report Volume	Part	Page
3	Mickle Silver Mines Ltd. Operations (1926)	36	1	163
	Mickle Tp., Timiskaming Silver mg. See Mapes-Johnston s.m. Mickle Silver Mines Oliver, D.G.			
	Oliver, D.G. Silver mg, Mickle tp.	46	1	233
4	Baird, D.S. of Symass Mg. Syndicate	50	1	164
	Fahrenheit Mining Co. Ltd. Capital; officers; operations: Incorporated	56	2	106
		56	1	45
	Mapes-Johnston silver mine, Mickle tp. Operations (1940)	50	1	64
	Matachewan Consolidated Mines Ltd. Capital; officers; operations: (1940)	50	1	93-96
	(1941)	51	1	157-160
	(1942)	52	1	157-159
	(1943)	53	1	138-140
	(1944)	54	2	71-73
	(1945)	55	2	58-60
	(1946)	56	2	66-67
	(1947)	57	2	68-70
	(1948)	58	2	58-60
	(1949)	59	2	55-57

ODM GENERAL INDEX SEARCH

Words searched: Oliver, J. Oliver, K.S. Otisse-Curry Consolidated Silver Mines Ltd. Otisse Mining Co. Ltd. Pickle Crow Gold Mines Ltd.	Quebec Metallurgical Industries Ltd. Quesnel, Fred Rix Athabaska Uranium Mines Ltd. Rotondo Rouyn Mines, Ltd. Sellers, D.J. Shane Silmont Mining Co. Ltd.
--	--

Index Volume	Listing:	Report Volume	Part	Page
4 cont.	Matachewan Consolidated Mines Ltd.			
	Dividends (to 1949)	59	1	11,16
	Profit tax (1940)	50	1A	55
	(1946)	56	1	53
	(1947)	57	1	51
	(1948)	58	1	47
	Mickle Tp., Timiskaming			
	Silver mg. (1940)	50	1	164
	(1946)	56	2	106
	Oliver-Cameron silver mine, Mickle Tp.			
	Operations (1940)	50	1	164
	Symass Mining Syndicate Ltd.			
	Capital; officers; operations: Incorporated	50 50	1 1A	164 50
5	Bailey, J.R.			
	of Cotley Mines	63	2	132
	Colcourt Mines Ltd.			
	Operating Jubilee s.m.	63	2	132
	Cotley Mines Ltd.			
	Capital; officers; operations: Incorporated	63 63	2 1	132 57
	Hasaga Gold Mines, Ltd.			
	Capital; officers; operations (1950)	60	2	26-28
	(1951)	61	2	27,28
	(1952)	62	2	26-28

ODM GENERAL INDEX SEARCH

Words searched:

Silverclaim Creek	Siscoe Gold Mines Ltd.
Silverclaim Lake	Siscoe Metal of Ontario, Ltd.
Silverclaim Lake Mines Ltd.	South Twin Lake
Silverclaim Lake Resources Ltd.	Steindler
Silver Lake	Sylvanite Mines Ltd.
Silver Lake Resources Ltd.	Symass Mining Syndicate Ltd.
Silver Ore Zones Mines Ltd.	Teck Explorations Ltd.

Index Volume	Listing:	Report Volume	Part	Page
5	Hosking, W.J. of Cotley Mines	63	2	132
	Johnston, A.W. of Cotley Mines	63	2	132
	Matachewan Consolidated Mines, Ltd. Capital; officers; operations: (1950)	60	2	52-54
	(1951)	61	2	54-56
	(1952)	62	2	56-58
	(1953)	63	2	66-68
	Dividends (to 1954)	64	1	31,36
	Profit tax (1951)	61	1	51
	Mickle Tp., Timiskaming Silver mining (1953)	63	2	132
	prospect	63	2	68
	Rix Athabaska Uranium Mines, Ltd. Incorporated	60	1	45
	Rotondo Rouyn Mines, Ltd. Incorporated	60	1	45
	Silverclaim Lake Mines Ltd. Incorporated	64	1	58
	6	Alsof Mines Ltd. Incorporated	67	1

ODM GENERAL INDEX SEARCH

Words searched:

Thomson	Willars, J.G.
Thomson Lake	York
Timm	
Vermont Mines Ltd.	
Welsh, G.S.	
Welsh Silver Mines Ltd.	
Wilkinson, G.	

Index Volume	Listing:	Report Volume	Part	Page
6	Bailey, R.P. of Quebec Metallurgical Industries	69	2	128
	Candore Explorations, Ltd. Change of name	66	1	36
	Cotley silver mine, Mickle tp. Leesees; operations:(1955)	65	2	134
	Majortrans Oil & Mines, Ltd. Change of name	67	1	35
	Matachewan Consolidated Mines, Ltd. Dividends paid by	66	1	15
	Mickle Tp., Timiskaming Silver mining	65	2	134
	Norvalie Mines, Ltd. Change of name	65	1	38
	Quebec Metallurgical Industries, Ltd. Capital; officers; operations:(1955)	65	2	151
	(1956)	66	2	159
	(1957)	67	2	171
	(1958)	68	2	136
	(1959)	69	2	128
	Silverclaim Lake Mines, Ltd. Officers; operations:	65	2	134

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Words searched:

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7	Otisse silver claim, Mickle twp. Operations: (1961) (1962) (1963)	71 72 73		124 132 125
	Rix Athabaska Uranium Mines, Ltd. Capital; officers; operations: (1960) (1961) (1962) (1963)	70 71 72 73		116 127 136 137
	Siscoe Metals of Ontario, Ltd. Capital; officers; operations: (1960) (1961) (1962) (1963)	70 71 72 73		119 130-132 141-143 145-147
	Vermont Mines Ltd. Capital; officers; operations: (1961)			
8	Alsof Mines Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		21, 41- 45
	Boland-Thomson Silver Mining Co. Ltd. Mickle Tp., Timiskaming District	GR 62		14, 41 42, 46, 48
	Brant Mines Ltd. Mickle Tp., Timiskaming District	GR 62		42

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Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Burgess Lake Mickle Tp., Timiskaming District	GR 62		18
	Clinton & Steindler Syn. Claims Mickle Tp., Timiskaming District	GR 62		49
	Colcourt Mines, Ltd. Mickle Tp., Timiskaming District	GR 62		45
	Cotley Mines Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62 MRC 10		45-46 352
	Currie-Otisse Consolidated Silver Mines, Ltd. see Otisse-Currie Consolidated Silver Mines Ltd.			
	Darragh-Shane Claim see Shane-Darragh claim			
	Elk Lake Silver Mines Ltd. Elk Lake area, Timiskaming District	GR 62		39,45
	Fahrenheit Mining Co. Ltd. Mickle Tp., Timiskaming District	GR 62		48
	Hasaga Mines, ltd. Mickle Tp., Timiskaming District	GR 62		44

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Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Henderson Lake Mickle Tp., Timiskaming District	GR 62		17
	Hermence Lake Mickle Tp., Timiskaming District	GR 62		10
	McAuley & Rotondo Group Mickle Tp., Timiskaming District mining properties, report on	GR 62		46-47
	Majortrans Oil & Mines Ltd. Mickle Tp., Timiskaming District	GR 62		51
	Mapes-Johnston Mining Co. Ltd. Mickle Tp., Timiskaming District	GR 62		42
	Matachewan Consolidated Mines Ltd. Matachewan area, Timiskaming District mining properties, report on	GR 51		23,32- 36,49
	Mickle Silver Mines, Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		50
	Mickle Tp., Timiskaming District Geology of the Elk Lake area lead	GR 62 GR 62		50

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Words searched:

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8 cont.	Mickle Tp., Timiskaming District silver	74		131	
		75		133	
		76		156	
		78		121-122	
		79		119-120	
		80		103-104	
		GR 62		41-51	
		silver/cobalt	MRC 10		349-352, 357
		Morrison, B.L. Mickle Tp., Timiskaming District mining property, report on	MRC 10		351
		North American Silver Mining Co. Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		49-50
	Oliver, K.S. Mickle Tp., Timiskaming District mining property, report on	MRC 10		349	
	Otisse-Currie Consolidated Silver Mines Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		50	

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Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Otisse Mine Mickle Tp., Timiskaming District	74 75 76 78 79 80 MP 25 MP 35 MP 46		131 133 156 121-122 119-120 103-104 4 4 35
	Otisse Mining Co. Mickle Tp., Timiskaming District mining property, report on	GR 62		51
	Pickle Crow Gold Mines, Ltd. Mickle Tp., Timiskaming District	GR 62		44
	Rotondo & McAuley Group Mickle Tp., Timiskaming District mining properties, report on	GR 62		46-47
	Sellers, Donald J. Mickle Tp., Timiskaming District	GR 62		42
	Shane-Darragh Claim Elk Lake area, Timiskaming District	GR 62		45
	Silver Ore Zone Mines, Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		47-48

ODM GENERAL INDEX SEARCH

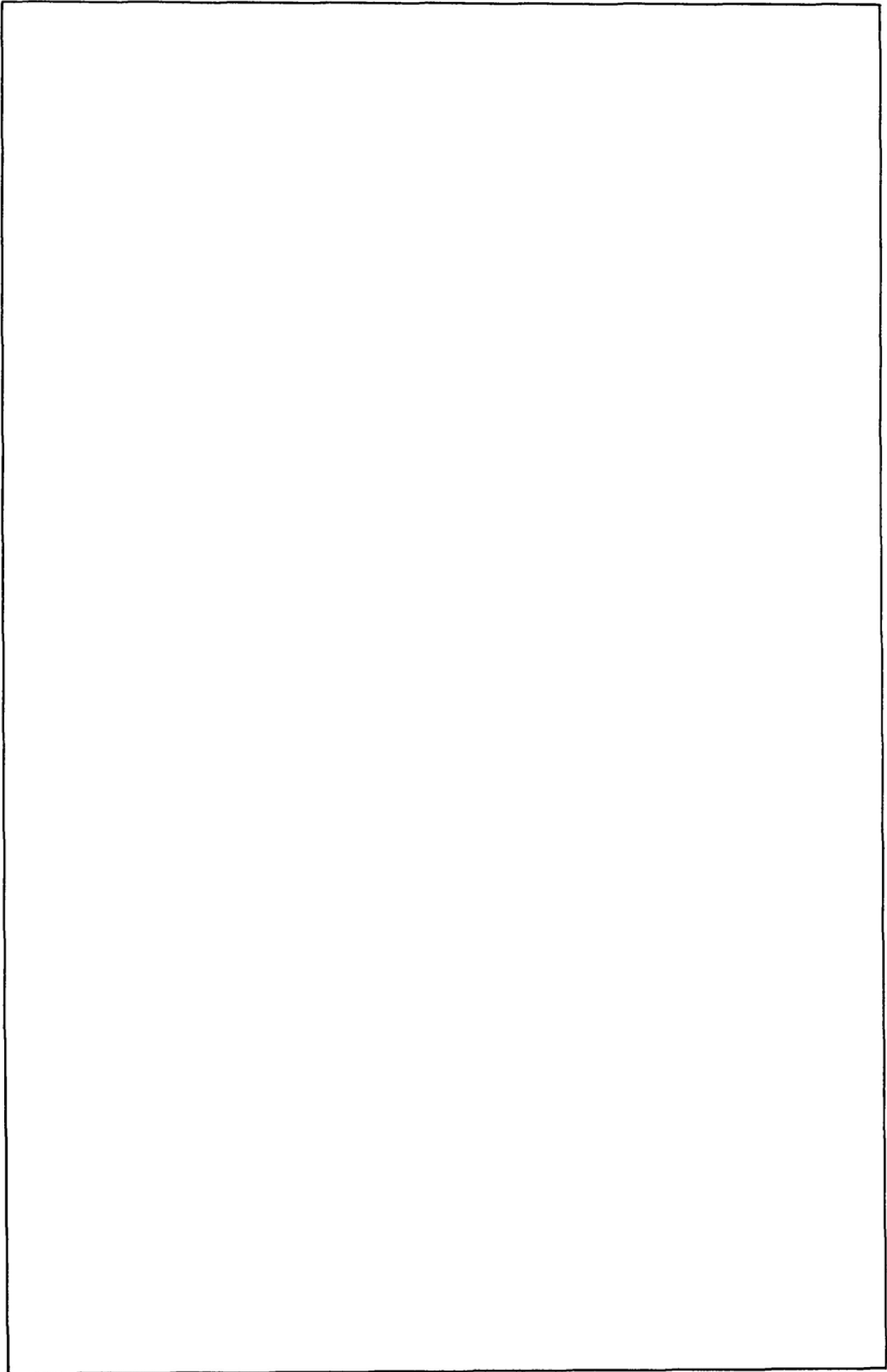
Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Silverclaim Lake Mickle Tp., Timiskaming District	GR 62		10, 15, 41-49 passim
	Silverclaim Lake Mines Ltd. Mickle Tp., Timiskaming District	GR 62		46
	South Twin Lake Chown & Mickle Tps., Timiskaming District	GR 62		8
	Steindler & Clinton Syn. Claims See Clinton & Steindler Claims			
	Symass Mining Syn. Mickle Tp., Timiskaming District	GR 62		42
	Vermont Mines, Ltd. Mickle Tp., Timiskaming District mining property, report on	GR 62		48
	Welsh, G.S. Elk Lake area, Timiskaming District	GR 62 MRC 10		38-40, 49, 51 348, 350

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	<p>Welsh Silver Mines, Ltd. Elk Lake area, Timiskaming District report on Otisse Mine</p>	78 79 80 MP 25 MP 35 MP 46		121-122 119-120 103-104 4 4 35
	<p>York Claim Mickle Tp., Timiskaming District mining property, report on</p>	GR 62		42-43
9	<p>Elk Lake-Englehart Areas, Timiskaming District summary of field work (gravity/ magnetic), 1977 by V.G. Gupta & D.R. Wadge</p>	MP 75		172-173
	<p>Elk Lake-Cowganda, Timiskaming District mining & exploration activity</p>	MP 64		78
	<p>* Out of Print</p>			
	<p>1 - Report of the Royal Commission on the Mineral Resources of Ontario, 1890</p>			



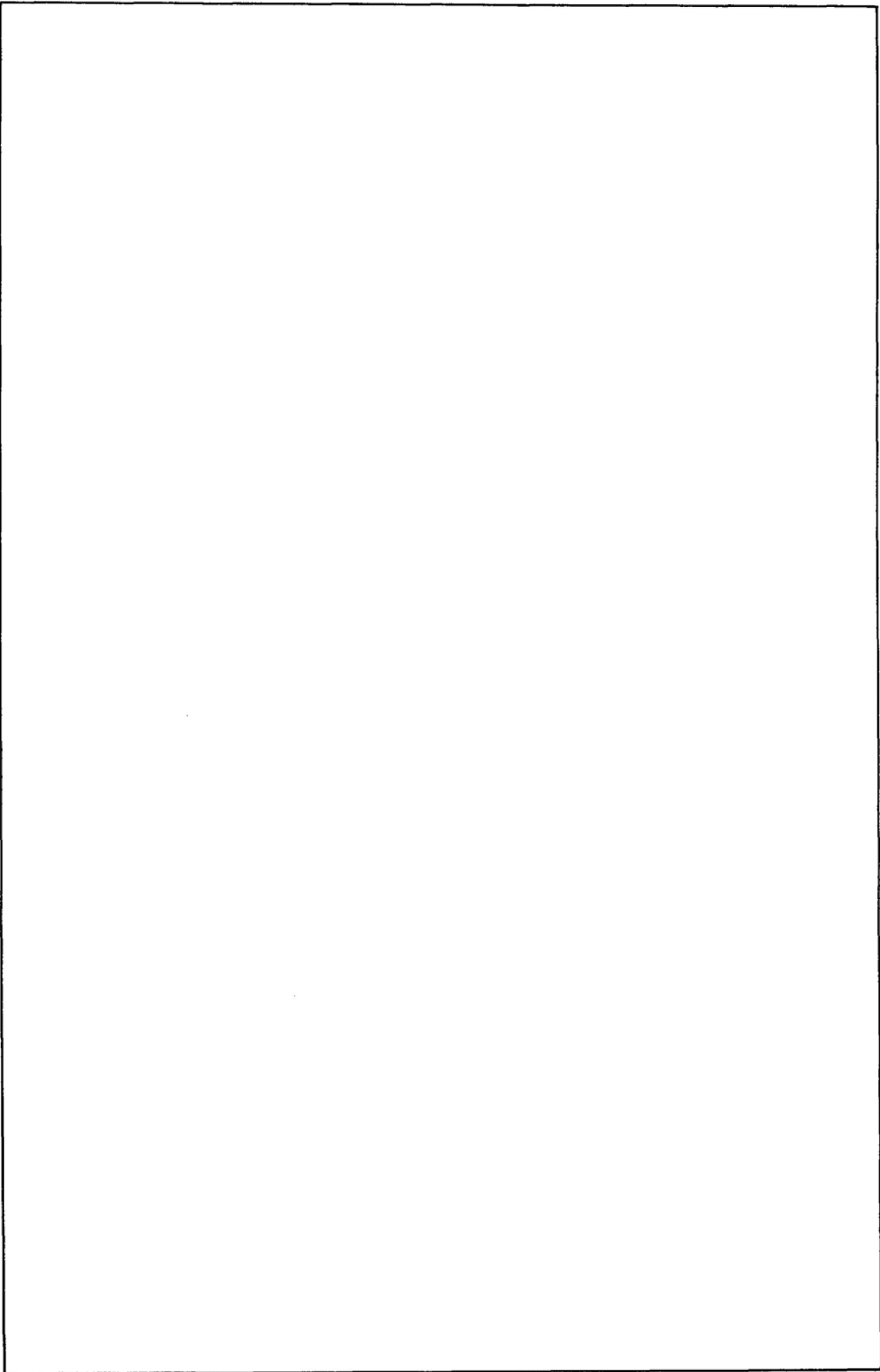
Author	Date	SELECTED REFERENCES		Map Scales and/or Report Pages
		Title	Reference	
Andrews, A.J.	1986	Silver vein deposits: summary of recent research	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp. 1459-1462
Andrews, A.J., Masliwec, A., Morris, W.A., Owsiacki, L. and York, D.	1986	The Silver Deposits at Cobalt and Gowganda Ontario. II; An experiment in age determinations employing radiometric and paleomagnetic measurements.	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp.1507-1518
Andrews, A.J., Owsiacki, L., Kerrich, R. and Strong, D.F.	1986	The Silver Deposits at Cobalt and Gowganda Ontario. I: Geology, petrography and whole-rock geochemistry.	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp.1480-1506
Card, K.D. et al	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario.	ODMNA Map 2188	1:253 440
Card, K.D. Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury + AL5 Districts, Ontario, Geological Compilation Series	ODM Map 2361	1:253 440
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	*GSC Separate Report 1075 *GSC Map 1076	1:63 360
Collins, W.H.	1909	Montreal River District, Ontario	*GSC Summary Report 1908	pp. 115-120
Collins, W.H.	1911	Montreal River District, Ontario	*GSC Summary Report 1910	pp. 196-202

Author	Date	SELECTED REFERENCES		Map Scales and/or Report Pages
		Title	Reference	
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Map 64A	1:63 360
Cooke, H.C.	1918	Montreal River District, Northern Ontario	*GSC Summary Report 1917, Part E	pp. 16-18
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury & Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
Goodz, M.D. Watkinson, D.H., Smejkal, V. and Pertold, Z.	1986	Sulphur-isotope geochemistry of silver - sulpharsenide vein mineralization, Cobalt, Ontario	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp. 1551-1567
GSC	1956	Aeromagnetic Map, Elk Lake, Ontario	GSC Map 283G	1:63 360
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Timiskaming & Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Gupta, V.K. Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Timiskaming + 2AL Districts, Ontario	OGS Map P.2296	1:100 000
Hunter & Associates Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/2 + 41P/E, Timiskaming + 2 other Districts	OGS OFR 5486	3 Volumes
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kerrich, R. Strong, D. F. Andrews, A.J. and Owsiacki, L.	1986	The Silver Deposits at Cobalt and Gowganda, Ontario. III: Hydrothermal regimes and source reservoirs - evidence from H, O, C, and SR isotopes and fluid inclusions	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp. 1519-1550

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Knight, C.W.	1913	The Outlying Cobalt-Silver Areas, Montreal River and Temagami Forest Reserve, Ontario		OBM AR, 1910, Vol 19, pt. 2	pp. 155-164
Kretschmar, U. Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 410, 41P, 42A, 42B, Timiskaming + 2AL Districts		OGS OFR 5310	
Kretschmar, U. Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Timiskaming & Cochrane Districts		OGS Study 28	
Kutina, Jan & Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi area of the Canadian Shield		GSP Paper 71-9	36 pp.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W + 41P, Ontario		OGS OFR 5508	
Long, D.G.F. Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern margin of the Cobalt Embayment, Ontario, with Comments on Associated Concentrations of Silver and Copper		OGS OFR 5608	
Mackean, B.E.	1964	Mickle Township, District of Timiskaming, Ontario		ODM Map P.240	1:15 840
Mackean, B.E.	1967	Geology of the Elk Lake Area, District of Timiskaming, Ontario		ODM OFR 5006	
Mackean, B.E.	1968	Geology of the Elk Lake Area, District of Timiskaming, Ontario		ODM GR 62	
Mackean, B.E.	1968	Mickle and James Townships, Timiskaming District, Ontario		ODM Map 2151	1:31 680

Author	Date	SELECTED REFERENCES		Map Scales and/or Report Pages
		Title	Reference	
Mansinha, L. Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ontario	OGS OFR 5440	
MNR	1982	Ontario Basic Map Sheets, Mickle Township	OBM Maps 20 17 5400 52800 20 17 5300 52800 20 17 5400 52700 20 17 5300 52700	1:20 000
MNR		Mickle Township Claim Map	MNR Map Plan No. M.234	1" = 40 ch.
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904, Vol XVI, pt. A	pp. 198-225
Pyke, D.R. Ayres, L.D. Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury & Timiskaming Districts, Ontario	ODM Map 2205	1:253 440
Redman, J.D. Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
Reid, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario	ODM Bulletin No. 134	
Roed, M.A.	1980	Elk Lake Area, NTS 41P/NE, Timiskaming District, Ontario	NOEGTS 83	
Roed, M.A. Hallett, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Timiskaming District, Ontario	OGS Map 5020	1:100 000

Author	Date	SELECTED REFERENCES		Map Scales and/or Report Pages
		Title	Reference	
Savage, W.S. Thomson, R. Fenwick, K.G.	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ontario	ODM Map P.159	1:126 720
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet + part of Ville Marie Sheet, NTS 41P, 31MW, Timiskaming & Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
Surveys & Mapping Branch, EMR	1976	Elk Lake	NTS 41P/9	1:50 000
Surveys & Mapping Branch, EMR	1976	Gowganda, Ontario	NTS 41P/10	1:50 000
Surveys & Mapping Branch, EMR	1976	Matachewan, Ontario	NTS 41P/15	1:50 000
Surveys & Mapping Branch, EMR	1976	Charlton, Ontario	NTS 41P/16	1:50 000
Symons, D.T.A. Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	
Thorpe, R.I., Goodz, M.D., Jonasson, I.R. and Blenkinsop, J.	1986	Lead-isotope study of mineralization in the Cobalt District, Ontario	Canadian Journal of Earth Sciences, Vol 23, No. 10	pp. 1568-1575
		* Out of Print		



NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

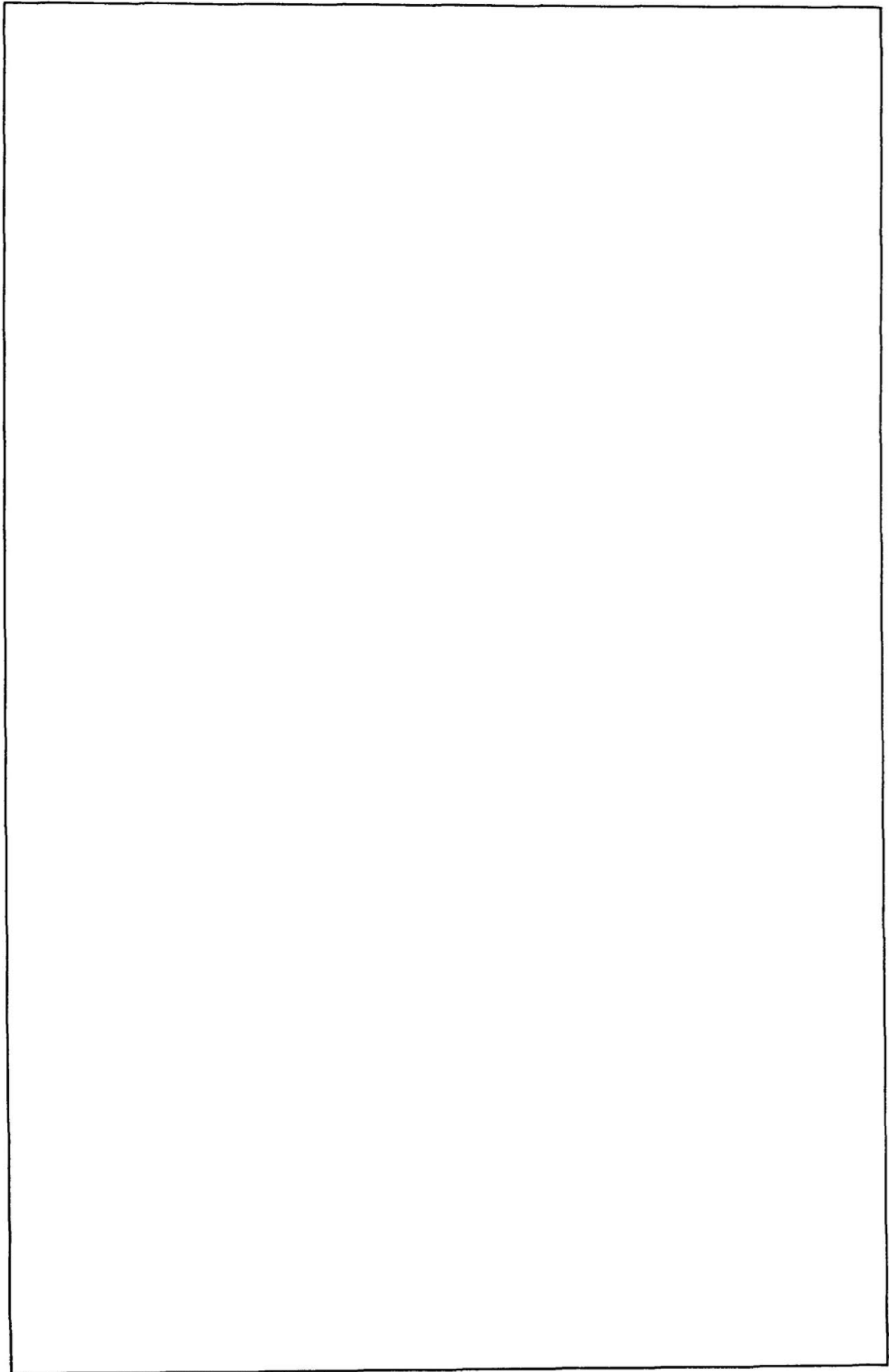
Two mines produced silver in the past and two others shipped small amounts of silver.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

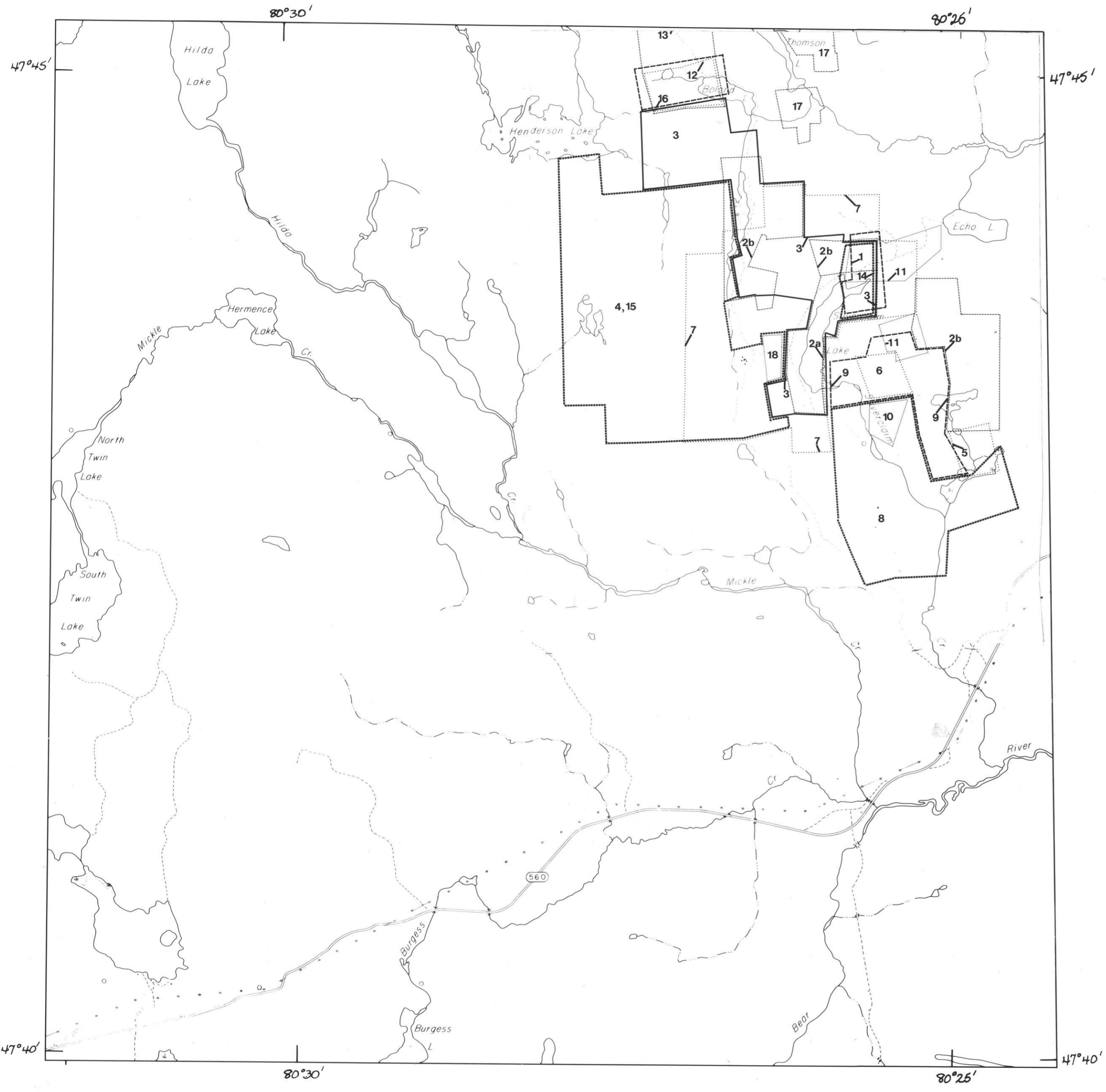
AIR PHOTOS - on File in Cobalt

1" = 1/4 mile for 1946, 1959, 1978-1.

Air photos are also available for viewing or purchase from the Public Service Centre, Room 1640, Whitney Block.



MICKLE TOWNSHIP

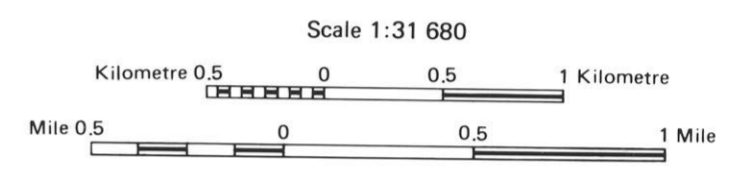


Ministry of
Northern Development
and Mines

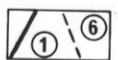
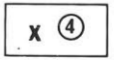

Mines and
Minerals
Division

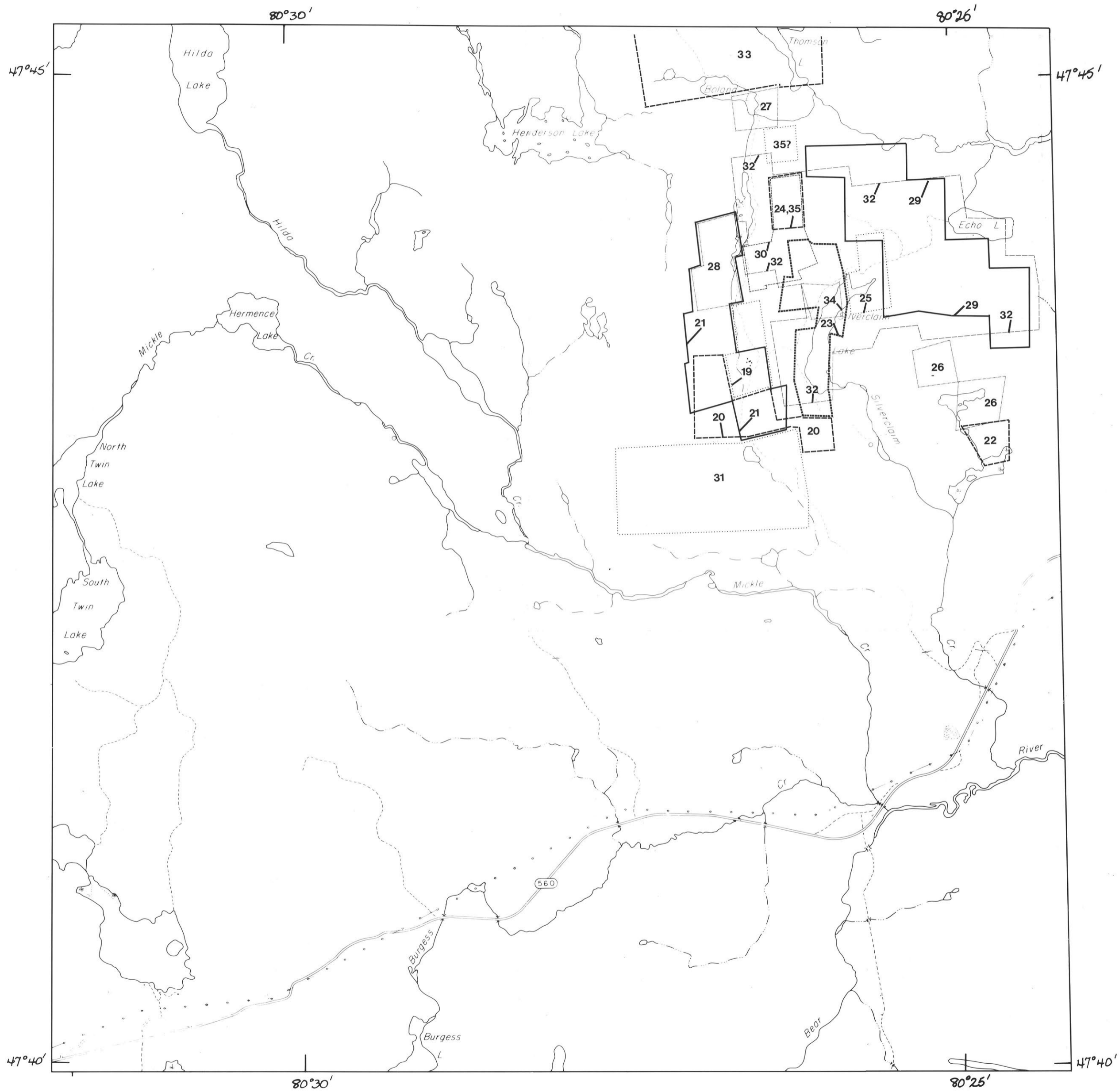
ONTARIO GEOLOGICAL SURVEY
PROPERTY LOCATION MAP
GEOLOGICAL DATA INVENTORY FOLIO 498
(Map of 3)

MICKLE TOWNSHIP



EXPLORATION DATA FILE AREAS

- 
 Reference number is always inside work area outlined.
See listing in text pages.
- 
 Small area of exploration
- 
 File covers whole township or area

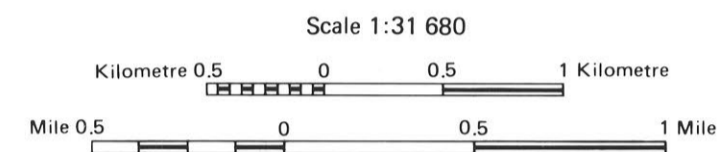


Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY
PROPERTY LOCATION MAP
GEOLOGICAL DATA INVENTORY FOLIO 498
(Map 2 of 3)

MICKLE TOWNSHIP






EXPLORATION DATA FILE AREAS









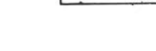


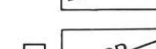

- Reference number is always inside work area outlined.
See listing in text pages.
- Small area of exploration
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP







GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

-  Geochemical sample site, with reference number
-  Area of geochemical sampling, with reference number
-  Age dating material sampling site, with reference letter

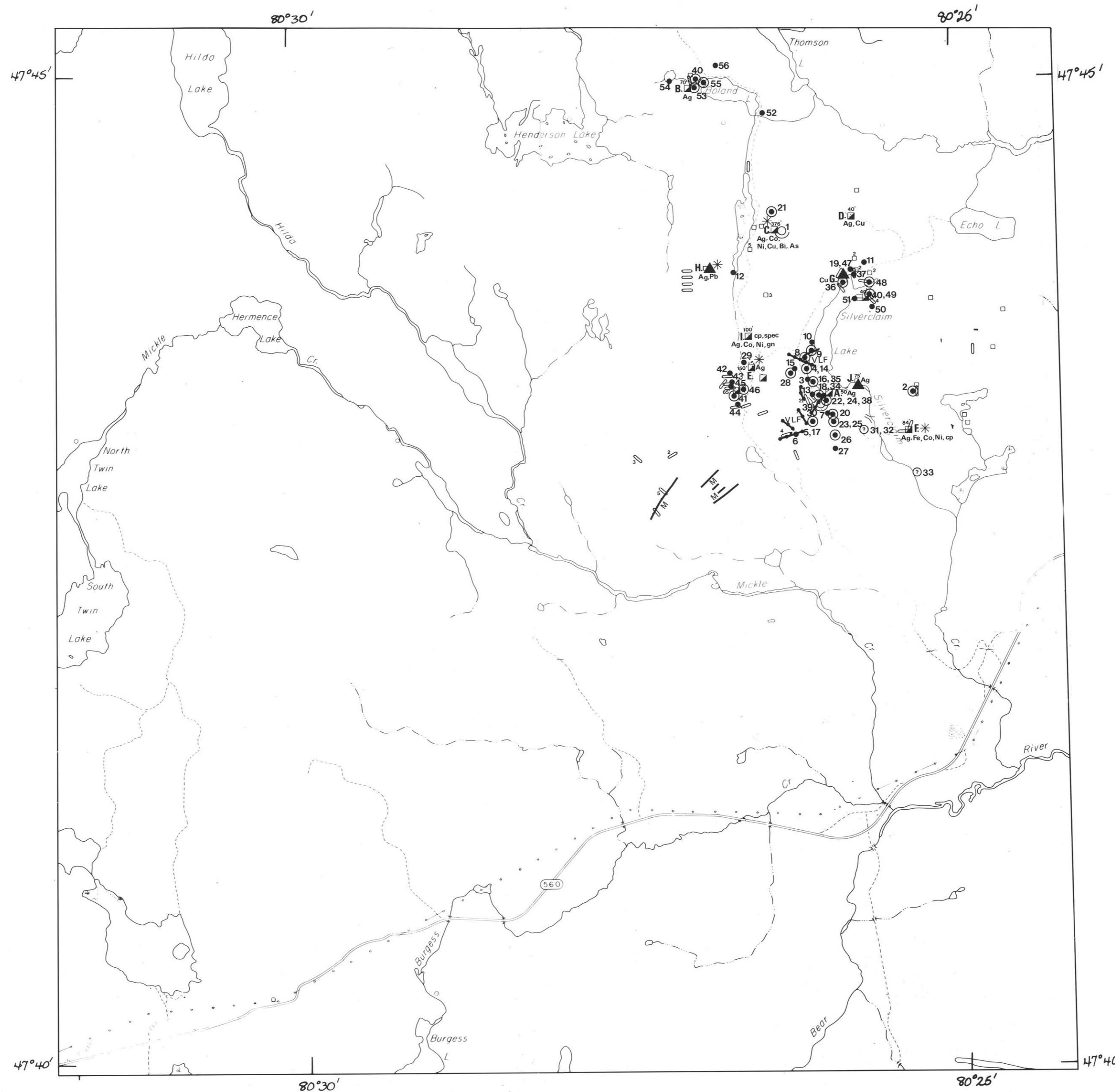
GEOPHYSICAL ANOMALIES

-  Airborne magnetic anomaly
-  Airborne electromagnetic anomaly
Length of anomaly along flight line
-  Airborne electromagnetic anomaly
Location of anomaly along flight line
-  Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
-  Airborne radiometric anomaly
-  Ground magnetic anomaly
-  Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop
VLF - Very low freq.; Turam; JEM -
Crone Em - 16)
-  Ground radiometric anomaly
-  Induced polarization anomaly
-  Self potential anomaly
-  Audio-frequency magnetic anomaly
(total intensity)
-  Resistivity anomaly
-  Gravity anomaly

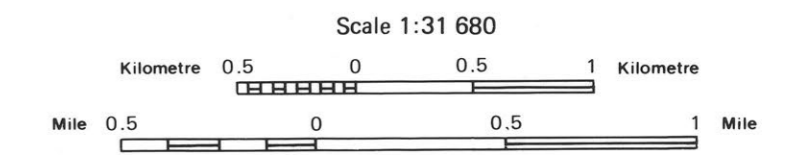
MISCELLANEOUS DATA

-  Trenching, pit
-  Adit
-  Open pit
-  Rock quarry
-  Sand and/or gravel pit
-  Number of trenches or pits in a small area

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.





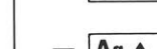


MICKLE TOWNSHIP









GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

-  Mineral occurrence at surface, with reference letter
-  Mineral occurrence with shaft, depth given with reference letter
-  Mineral occurrence reported but exact location uncertain, with reference letter
-  Mineralized float with reference letter
-  Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

-  Location of single drillhole, with reference number
-  Location of closely spaced group of drillholes, with reference number
-  Drillhole, exact location uncertain, with reference number
-  Property with underground drillholes in this general area with reference number
-  Property with drillholes which have not been plotted on map, with reference number
-  Reverse circulation drillhole; churn drilling, with reference number