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Ministry of
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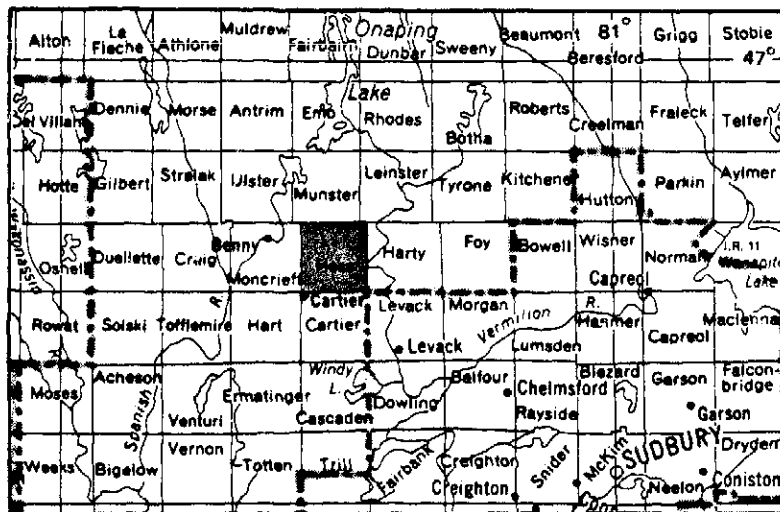
ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 244

HESS TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

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

NTS Number 41 I/11

Mining Claim Map Number M 930

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Ontario Geological Survey

1985: Hess Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 244, compiled by the staff of the Resident Geologist's Office, Sudbury, 26p. and 2 maps.

Original Compilation by: de Gagne, Ronn March 8, 1985

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

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

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	4.546 090	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.

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

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.	.....Thorstite
△ 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.	.....Branerite	△ 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	▲ S.	.....Sulphide
▲ cp.	.....Chalcopyrite	▲ mag.	.....Magnetite	△ serp.	.....Serpentine	▲ Hg.	.....Mercury
△ ch.	.....Chert	△ mc.	.....Malachite	△ sh.	.....Shale		
△ 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 (fluor spar)	△ nc.	.....Niccolite	△ stib.	.....Stibnite		

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

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	Hess Township Molybdenum Occurrence	Mo	Mo 2	O.D.M. MRC7, p.68	O.D.M. Vol.38, pt.7, p.67 O.D.M. Map 38H O.D.M. Map P.405 O.D.M. Map P.287	
B	Sterling Occurrence	Cu, Ni	Cu 3		O.D.M. Vol.38, pt.7, pp.66,67	
C	Rivers Occurrence	Cu		O.D.M. MRC12, p.277		
D	Hess Township, Iron Occurrence	Fe		O.D.M. MRC11, p.340	O.D.M. Vol.38, pt.7, p.67	
E	Geneva Lake Mine	asp, sp, gn, py, mag, Zn, Pb, Ag, Cu		O.D.M. MRC12, p.248 O.D.M. MRC2, p.97	O.D.M. Vol.38, pt.7, p.67 CIMM Vol.1.1, p.590-6 O.D.M. Map 2190 O.D.M. Map P.287	
F	Hess Lake Prospect	Fe, Cu		O.D.M. MRC11, p.339		
G	Hess Township Occurrence	gn, sp, py, cp				
H	Eams Occurrence	py, po, mag, cp	Cu 2	O.D.M. MRC12, p.277	O.D.M. Vol.38, pt.7, p.67-68	
I	Hess Lake Magnetite Occurrence	mag		O.D.M. MRC11, p.339-40	O.D.M. Map 38H	
J	Hess Township Pyrite Occurrence, Lot 10, Con.6	py			O.G.S. Rept.206, Chart B	
K	Hess Township Pyrite Occurrence, Lot 5, Con.6	py			O.G.S. Rept.206, Chart B	

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			
L	Central Hess Township	mag			O.C.S. Rept. 206, Chart B O.D.M. Map P. 1108
M	North West Hess Township Sulphide Occurrence	S			

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 SUDBURY	COMPANY/AUTHOR (file number)	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	GRAVIMETRIC	PRODUCTION	SHAFT SINKING	
		78	75 76	75 76	75	76	77	77	75	73	75	73	74	73	78	81			78		28 29 30 31 37
1	Bardswich, L. J.				75	76						74									
2	Chevron Standard Ltd. (Tex Explorations Ltd.)	78	75 76									76									
3	Cominco Ltd. (Hollinger Mines Ltd.)				77	77						81	81		81						
4	Descarreux, J. and Assocs.									73											
5	Dome Exploration Canada Ltd.								75		75										
6	Geneva Metals Inc. (Geneva Lake Mines Ltd.)			24 25 26 27	26 ² 27 ² 50 ² 51 ²		43	73				73	73								37 41 42 43 44
7	Hollinger Mines Ltd.			77	77																
8	INCO Ltd.				66 67																
	1 Shaft deepened to 300 feet 2 No Data																				

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 SUBBURY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROJECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	GRAVIMETRIC	PRODUCTION	SHAFT SINKING
		81		82								82	82	82		83 82				
9	Jasperson, J. K. (Bonzano Exploration Ltd.)											82	82							
10	Kidd Creek Mines Ltd.											83	83							
11	Landry, C. J.				67							67								
12	Jaybee Landry Exploration and Mining Co. Ltd.	66			69	66		66												
13	Mining Endeavor Co. Ltd.	57			57															
14	Moncrieff Syndicate (Benner, R. I.)				68															
15	Moncrieff Uranium Mines Ltd.	70						70												
16	New Kelore Mines Ltd. (Mid North Engineering Services Ltd.)				68															
17	Rio Tinto Canadian Explora- tion Ltd.	81							81	81										

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.															
	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
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY																
COMPANY/AUTHOR (file number)																
18 St. Joseph's Exploration Ltd.										74						
19 Southern Union Oil Ltd.											59					
20 Tex Sol Explorations Ltd.								73								

DRILLHOLE SUMMARY		Company Name	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										
1	Bardswich, L. J.	PE-19	1975	N10E	35	-	139	mag, py, cp	mag-Fe	
1a		PE-20	1975	0	90	-	57	mag	mag-Fe	
1b		PE-17	1975	0	45	-	118	mag, py, cp	mag-Fe	
1c		PE-18	1975	S7W	55	-	101	mag, py	mag-Fe	
2		PE-10	1975	180	45	-	92	cp, mag	mag-Fe	
2a	PE-11	1975	0	45	-	97	mag, py, cp	mag-Fe		
2b	PE-12	1975	0	90	-	80	cp, mag	mag-Fe		
3	PE-13	1975	180	50	-	78	mag, py	mag-Fe		
3a	PE-14	1975	0	35	-	65	mag, cp, py	mag-Fe		
3b	PE-15	1975	0	90	-	136	mag, py, cp	mag-Fe		
4	PE-21	1975	S35E	45	-	132	mag, py, cp	mag-Fe		
5	HE3-3-77	1977	151	60	3	327	py	Ni-Ag-Au-Pb Hg-Cu-Zn		
6	Cominco Ltd. and Hollinger Mines Ltd. Hollinger Mines Ltd.	HE3-2-77	1977	294	45	3	180	py, cp, gn	-	
7		HE3-1-77	1977	151	45	3.5	120	py, cp	Cu-Pb-Zn-Ag-Au	
8		HE1-77	1977	58	45	12	296	py, cp, po	-	
9	INCO Ltd.	33314	1967	180	45	65	255	-	-	
10		33301	1967	180	50	25	559	-	-	
10a		33305	1967	180	50	15	550	-	-	
10b		33307	1967	180	50	17	741	-	-	
10c		31900	1966	180	45	27	410	-	-	
10d		33310	1967	180	50	9	552	-	-	
10e		33309	1967	180	50	19	613	-	-	
10f		33311	1967	180	45	19.7	394	-	-	
10g		24485	1967	180	45	35	359	S	-	
10h		33308	1967	180	40	32	151	-	-	
17	33303	1967	180	45	10	207	-	-		
17a	33302	1967	180	45	8	193	-	-		
17b	33304	1967	180	45	10	202	cp,	-		
18	24490	1967	180	45	3	350	-	-		
18a	24489	1967	180	45	19	167	po	-		
18b	24487	1967	180	45	4	254	-	-		

DRILLHOLE SUMMARY		Company Name	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										
18c	INCO Ltd.	24488	1967	180	45	32	155	-	-	
18d		24486	1967	180	45	17	153	po	-	
18e		31895	1966	180	45	6	365.5	-	-	
18f		31896	1966	180	45	4	277.5	po,cp	-	
18g		31894	1966	160	45	5	201	-	-	
18h		31898	1966	180	45	12	260	-	-	
18i		31897	1966	180	45	5	268	po,cp	-	
18j		31890	1966	135	45	7	129	-	-	
18k		31899	1966	180	40	7	179	-	-	
18l		31891	1966	160	45	5.7	129	S	-	
18m		31889	1966	160	45	6	123	S	-	
25		33306	1967	180	45	6	350	-	-	
26		1	?	?	N25W	50	-	35	-	-
26a		2	?	?	N40W	34	-	62	mag,py,cp	-
26b		3	?	?	S40E	50	-	35	mag,mc	-
26c		4	?	?	N40W	82.5	-	59	mag,mc	-
26d		8	?	?	N35W	40	-	105	cp,mg,py,Fe	-
26e		9	1969	1969	S50E	50	5	36	mag	-
27	5	?	?	N40W	83	-	76	mag,mc,py	-	
27a	7	?	?	S35E	68	-	26	mg,py,po,Fe	-	
28	6	?	?	S20E	70	-	126	hem,py,mag	-	
29	1	1967	1967	-	-	-	35	-	-	
29a	2	1967	1967	-	-	-	-	-	-	
29b	3	1967	1967	S45E	50	-	33.5	-	Fe,Cu	
29c	4	1967	1967	N45W	83	-	45	-	Fe,Cu	
30	5	1967	1967	N45W	83	-	76	-	Fe,Cu	
30a	7	1967	1967	S35E	68	-	26	-	Fe,Cu	
30b	8	1967	1967	N35W	40	-	105	-	Fe,Cu	
30c	6	1967	1967	S20E	70	-	111	-	Fe,Cu	
31	1	1957	1957	-	90	-	39	py,cp	Cu,Ni	
31a	2	1957	1957	-	90	-	48	py,cp	Cu,Ni	
31b	3	1957	1957	-	90	-	46	py,cp	Cu,Ni	

GDIF FORM NO. 3

DRILLHOLE SUMMARY		Map Drilling Location Number	Company Name	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
		31c	Mining Endeavor Co. Ltd.	4	1957	-	90	-	42	py, cp	Cu, Ni
		31d		5	1957	-	90	-	37	cp, py	Cu, Ni
		32	Moncrieff Syndicate	M-3	1968	-	45	14	941	py	-
		33		M-4	1968	-	90	-	743	py	-
		34		M-5	1968	-	90	14	1428	py	-
		35	New Kelore Mines Ltd.	NK-1	1968	135	85	28	1478	py	-
		36		NK-2	1968	345	60	8	1120	py	-

AIRBORNE GEOPHYSICAL SURVEY DATA

By For		Type of Survey	Flight Altitude Feet	Flight Line Direction	Flight Line Spacing
20	Questor Surveys Ltd. Tex Sol Explorations Ltd.	Airborne Electromagnetic	150	Normal S	1/8 mi.
5	Geotrex Dome Explorations (Canada) Ltd.	Airborne Magnetic Airborne Radiometric	150-200	NE-SW	1/8 mi.
17	Aerodat Ltd. Rio Tinto Can. Exploration Ltd.	Airborne Electromagnetic Airborne Magnetic	125-175	N-S	200 metres
4	? J. Descarreaux and Assoc.	Airborne Electromagnetic	?	?	?

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

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.

Bardswich, J. and Associates Northern Miner	Dec.28, 1965
Chevron Standard Ltd. Northern Miner	July 1, 1976
Geneva Metals Inc. Northern Miner	Sept.21, 1972
Irvington Mines Ltd. Northern Miner	Jan.12, 1967
Mattagami Lake Mines Northern Miner	Feb.14, 1974 Feb.15, 1974 June 13, 1974 Dec.5, 1974
New Kelore Mines Ltd. Northern Miner	May 9, 1968 Dec.19, 1968
Nickel Rim Mines Ltd. Northern Miner	Feb.23, 1967 Dec.21, 1967 Jan.5, 1968 Jan.18, 1968 Jan.27, 1974 Dec.1, 1975
Tex Sol Explorations Ltd. Northern Miner	Feb.17, 1973

ODM GENERAL INDEX SEARCH

Words searched: BABSON, G. L. CANADIAN NICKEL CO. CAN. LTD.
 BARDSWICH, J. AND ASSOCIATES CHEVRON STANDARD LTD.
 BENNER, R. COLLINS, J. H.
 BENNY AREA COMINCO LTD.
 BIGWOOD KIRKLAND GOLD MINES CONFEDERATION MINING CO.
 BLANCHARD, E. AND HAYSTEAD, W. DESCARREAU, J. AND ASSOC.
 BONZANO EXPLORATION LTD. GENEVA LAKE, HESS TWP.

Index Volume	Listing:	Report Volume	Part	Page		
6	BARDSWICH, J. AND ASSOCIATES of Falconbridge nickel mines	68	2	82		
		69	2	81		
7	BARDSWICH, J. AND ASSOCIATES of Falconbridge nickel mines	70		84,85		
		71		91		
		72		90,01		
		73		88,89		
5	BENNER, R. of Silver Banner silver mine	60	2	93		
		61	2	98		
		62	2	108		
3	BENNY LAKE AREA summary of Field Work, 1973 summary of Field Work, 1974	MP56		111-117		
		MP59		132-138		
3	BIGWOOD KIRKLAND GOLD MINES Capital; officers; operations (1933) (1934) (1935) (1936) (1937) (1938) (1939) Incorporated	43	1	63		
		44	1	73		
		45	1	82		
		46	1	102		
		47	1	92		
		48	1	14,83		
		49	1	15,82		
		43	1	39		
		5	BIGWOOD KIRKLAND GOLD MINES Capital; officers; operations (1940) (1941) (1942) (1943) (1944) (1945) (1946) (1947) (1948) (1949)	50	1	9-12
				51	1	73-76
52	1			77-80		
53	1			77-79		
54	1			10-13		
55	1			9,10		
56	2			10-12		
57	2			9-11		
58	2			8,9		
59	2	5,6				
3	CANADIAN NICKEL CO. CANADA LTD. Incorporated	41	1	59		

ODM GENERAL INDEX SEARCH

Words searched: GENEVA LAKE DEPOSIT HESS LAKE PROSPECT
 GENEVA LAKE MINES LTD. HESS TOWNSHIP
 GENEVA MINES INC. HOLLINGER MINES LTD.
 GENEX MINES LTD. INCO LTD.
 GETTY MINES IRVING MINING COMPANY
 GREEN, G. IRVINGTON MINES LTD.
 GREENSTONE JASPERSON, J.K.

Index Volume	Listing:	Report Volume	Part	Page
3	COLLINS, J. H. Lake Geneva lead-zinc claims staked by	38	7	61
1	GENEVA LAKE, HESS TWP. Glacial striae Gravel plain Iron ore Lacustrine deposits Rocks Quartzite	10 14 10 18 13 10	3 1 1	211 106 187 287 222 154
3	GENEVA LAKE, Hess Twp. Fault Specularite	38 38	7 7	54,55 67
9	GENEVA LAKE DEPOSIT Hess Township, Sudbury Dist.	MP64 MPBP3		106 169
4	GENEVA LAKE MINES LTD. Incorporated	59	1	44
5	GENEVA LAKE MINES LTD. Capital; officers; operations	62	2	90
6	GENEVA LAKE MINES LTD. Name changed	66	1	36
7	GENEVA LAKE MINES LTD. Report lead-zinc mine, Hess Twp. (1951)	MRC1		52
8	GENEVA LAKE MINES LTD. Hess Twp., Sudbury District	GR65		33
7	GENEX MINES LTD. Report on lead-zinc mine, Hess Twp.	MRC2		92
8	GENEX MINES LTD. Hess Twp., Sudbury District	GR65		33
1	GREENSTONE Sudbury District	22	2	134
8	HESS LAKE PROSPECT Report on mining property, Hess Twp., Sudbury District	MRC11		339-340

ODM GENERAL INDEX SEARCH

Words searched: JAYBEE LANDRY EXPLORATION AND MINING COMPANY
 KIDD CREEK MINES LTD.
 LAKE GENEVA LEAD-ZINC MINE
 LAKE GENEVA MINING CO.
 MACPHERSON, A. C. AND CO.
 MATTAGAMI LAKE MINES LTD.

MID NORTH ENGINEERING SERVICES LTD.
 MONCRIEFF SYNDICATE
 MONCRIEFF URANIUM MINES LTD.
 NEW KELORE MINES LTD.
 NICKEL RIM MINES LTD.
 PROGRESS ENGINEERING
 RIO TINTO (CAN.) EXPLORATIONS LTD.

Index Volume	Listing:	Report Volume	Part	Page
3	HESS TOWNSHIP			
	Notes on mineral deposits	38	7	66,67
	Rocks	38	7	54,55
5	HESS TOWNSHIP			
	Lead-zinc mining	62	2	91
8	HESS TOWNSHIP			
	Iron	MRC11		339-340
	Lead-zinc	MRC12		248-249
9	HESS TOWNSHIP			
	Galena	MP70		163-164
	Quaternary Geology of the Sudbury Area	GR181		
	Pyrite	MP70		302
	Sphalerite	MP70		370
3	LAKE GENEVA LEAD-ZINC MINE			
	Report	38	7	61,62
	Closed down	48	10	23,25
		40	1	104
8	LAKE GENEVA LEAD-ZINC MINE			
	Hess Township, Sudbury District	MP56		111-112, 114
		MP59		133,136
		MP60		173,176
		MRC12		248-249
3	LAKE GENEVA MINING CO.			
	Capital; officers; operations; (1928)	38	1	158
	(1929)	39	1	136
	(1931)	41	1	104
	(1937)	47	1	35,232
	Licensed	38	1	57
4	LAKE GENEVA MINING CO.			
	Capital: officers; operations (1941)	51	1	221,222
	(1942)	52	1	210
	(1943)	53	1	175,176
	(1944)	54	2	103
5	NEW KELORE MINES LTD.			
	Change of name	63	1	60
6	NEW KELORE MINES LTD.			
	Historical Notes	65	5	45

ODM GENERAL INDEX SEARCH

Words searched:
 ST. JOSEPH EXPLORATIONS LTD.
 SOUTH UNION MINES
 TEX SOL EXPLORATIONS LTD.
 TOWAGAMAK EXPLORATION CO.

Index Volume	Listing:	Report Volume	Part	Page
5	NICKEL RIM MINES LTD. Capital; officers; operations	64	2	118
6	NICKEL RIM MINES LTD. Capital; officers; operations (1955)	65	2	119,128
	(1956)	66	2	118
	(1957)	67	2	122
	(1958)	68	2	89,90
3	TOWAGAMAK EXPLORATION CO. Capital; officers; Licensed	38 39	1 1	49 60
6	TOWAGAMAK EXPLORATION CO. Licensed	66	1	36

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES			
Author	Date	Title	Reference
		REGIONAL GEOLOGICAL COMPILATION MAPS	
Card, K. D.	1965	Cartier Sheet	O.D.M. Map 287
	1976	Benny Area - Geneva-Munster Lake Sheets	O.D.M. Map P.1108
	1966-67	Sudbury Mining Area, Sudbury District	O.D.M. Map 2170
Card, K. D. and Innes, D. G.	1976	Benny Area, Cartier-Carhess Lake Sheet	Map P.1111
	1980	Geneva Lake	O.G.S. Map 2435
	1974	Benny Area, Hess Lake Sheet	Map P.949
	1974	Benny Area, Moncrieff Creek Sheet	Map P.948
	1974-75	Sudbury-Cobalt Sheet	O.G.S. Map 2361
Card, K. D. and Lumbers, S. B. Dressler, B. O.	1984	Sudbury Geological Compilation	O.G.S. Map P.2491
		GEOPHYSICAL MAPS	
	1980	Bouguer Gravity and Generalized Geology Sudbury-Onaping Lake Area	P.2482
Gupta, V. K. and Wadge, D. R.			1:100,000
O.D.M.-G.S.C.	1965	Aeromagnetic Map Sudbury, Ontario	Map 7067G
			1"=2 miles
			1"=1/4 mile
			1"=1 mile
			1"=1/4 mile
			1"=1/4 mile
			1"=1/4 mile
			1"=1/4 mile
			1"=4 miles
			1:50,000
			1:100,000
			1"=4 miles

		SELECTED REFERENCES		Map Scales and/or Report Pages
Author	Date	Title	Reference	Map Scales and/or Report Pages
O.G.S.-G.S.C.	1960	Aeromagnetic Maps Cartier Sheet Chelmsford Sheet Pogamasing Sheet Venetian Lake Sheet	Map 1524G Map 1518G Map 1525G Map 1519G	1"=1 mile 1"=1 mile 1"=1 mile 1"=1 mile
	1978	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey Sudbury Sheet	Map P.1610	1:250,000
Burwasser, G. J.	1979	SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING Quaternary Geology of the Sudbury Basin Area, Sudbury, Ontario	O.G.S. Rept.181	
Dept. of Energy, Mines and Resources	1971	Sudbury (RM) Quaternary Geology	O.G.S. Map 2397	1:50,000
	1975	Topographic Maps Cartier Sheet Chelmsford Sheet Pogamasing Sheet Venetian Lake Sheet		1:50,000 1:50,000 1:50,000 1:50,000
		MINERAL POTENTIAL MAPS		
Burwasser, G. J.	1972	Quaternary Geology and Industrial Mineral Resources of the Sudbury Area (Western Part)	O.D.M. Map P.751	1:50,000
Innes, D. G. and Jost, M.	1977	Nickel Deposits of Ontario (East Central Sheet)	O.G.S. Map 1062	1"=16 miles
Meyn, H. D. and Howarth, J. R.	1977	Molybdenum Deposits of Ontario East Central Sheet	O.G.S. Map 5327	1"=16 miles

SELECTED REFERENCES		Date	Author	Title	Reference	Map Scales and/or Report Pages
Author	Date					
O.G.S. and Mineral Resources Bank	1982	Springer, J.	Mineral Potential Map of Ontario East Central Sheet	OFR5327	1"=16 miles	
	1977		Ontario Mineral Potential Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000	
			GEOCHEMICAL None as of March 8, 1985			
			GEOLOGICAL REPORTS AND MAPS			
Adlington, R.	1981		Sudbury Data Series, Hess Twp.	O.G.S. Map P.2143	1"=1/4 mile	
Burrows, A. G. and Rickaby, H. C.	1929		Sudbury Basin Area	O.D.M. A.R. V.38, pt.3, Map 38G	p.1- 51 1"=1 1/2 miles	
Burwasser, G. J.	1976		Quaternary Geology and Granular Resources of the Sudbury Basin Area, Sudbury, Ontario	O.G.S. OFR5185 Map Chelmsford B	p.96 1:50,000	
Card, K. D. and Innes, D. G.	1978		Geology of the Benny Area District of Sudbury	OFR5256		
	1981		Geology of the Benny Area District of Sudbury	O.G.S. GR206 Maps 2434,2435	1"=1/2 mile	
Fairbairn, H. W.	1941		The Relations of the Sudbury Series to the Bruce Series in the Vicinity of Sudbury	O.D.M. A.R.50, pt.6	p.1-13	
Geoscience Data Centre	1976		Index to Geoscience Data Recorded in Assessment Work and M.E.A.P. Reports	O.D.M. OFR5210		

SELECTED REFERENCES		Date	Author	Reference		Map Scales and/or Report Pages
				Title		
1968	Johnston, F. J.			Molybdenum Deposits of Ontario	O.D.M. MRC7	p.68
1977	Kustra, C. R.			Annual Report of the Regional and Resident Geologists, 1976	O.G.S. MP71	
1974	Milne, V. G., Hewitt, D. F. and Card, K. D.			Summary of Field Work, 1974	O.D.M. MP59	p.132-138
1980	Milne, V. G., White, O. L., Barlow, R. B., Robertson, J. A. and Colvine, A.			Summary of Field Work, 1980	MP96	p.136, 137
1929	Osborne, F. F.			The Cartier-Stralak Area, District of Sudbury	O.D.M. AR38, pt.7, Map 38H	p.52-68 1"=1 mile
1939	Phemister, T. C.			Notes on Several Properties in the District of Sudbury	O.D.M. AR48, pt.10	p.16-28
1969	Shklanka, R.			Copper, Nickel, Lead, and Zinc Deposits of Ontario	O.D.M. MRC12	P.277
1968				Iron Deposits of Ontario	O.D.M. MRC11	p.340
1957	Thomson, J. E. et al			Cu,Ni,Pb and Zn Deposits in Ontario	O.D.M. MRC2	
1960	Thomson, J. E.			Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	O.D.M. GRI	
1983	Vos, M. A., Abolins, T., McKnight, R. and Smith, V.			Industrial Minerals of Northern Ontario. Part 1	OFR5386	

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
Boyle, R. W.	1976	JOURNAL ARTICLES, THESES, TECHNICAL REPORTS Mineralization Processes in Archean Greenstone and Sedimentary Belts	G.S.C. Sudbury File 2-3	p.29-31
Guthrie, A. E.	1974	A Lead-Zinc Copper Deposit in the Espanola Formation, Hess Township. Parts 1 and 2. H.B.Sc. LU.	Sudbury Theses File	p.2
Guthrie, A. E.	1980	Volcanic Stratigraphy of the Geneva Lake Greenstone Belt, Ontario. M.Sc. Western	Ontario Theses File	
Holmes, T. C.	1936	Geology of Hart Township, Ontario, and Adjacent Areas. Ph.D., UC	MP2	p.25
Thomson, J. E.	1960	Massive Sulphide Occurrences in Ontario	C.I.M.M. Vol.63	p.77-81
Tuck, R.	1930	The Geology and Origin of a Lead-Zinc Deposit at Geneva Lake, Ontario. Ph.D. Cor.	MP2	p.45

SELECTED REFERENCES Title		Reference	Map Scales and/or Report Pages
		Date	Author

NOTES AND ADDENDA

Index to Aerial Photographs

Scale 1"= $\frac{1}{4}$ mile

Year	Roll	Line	Number
1977	22	4630	84
1973	25	4634	241-247
	25	4633	179-185
	25	4632	72-77
1959	6	4631	67-70
	6	4630	26-29



Ministry of
Northern Affairs
and Mines

René Fontaine
Minister
David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

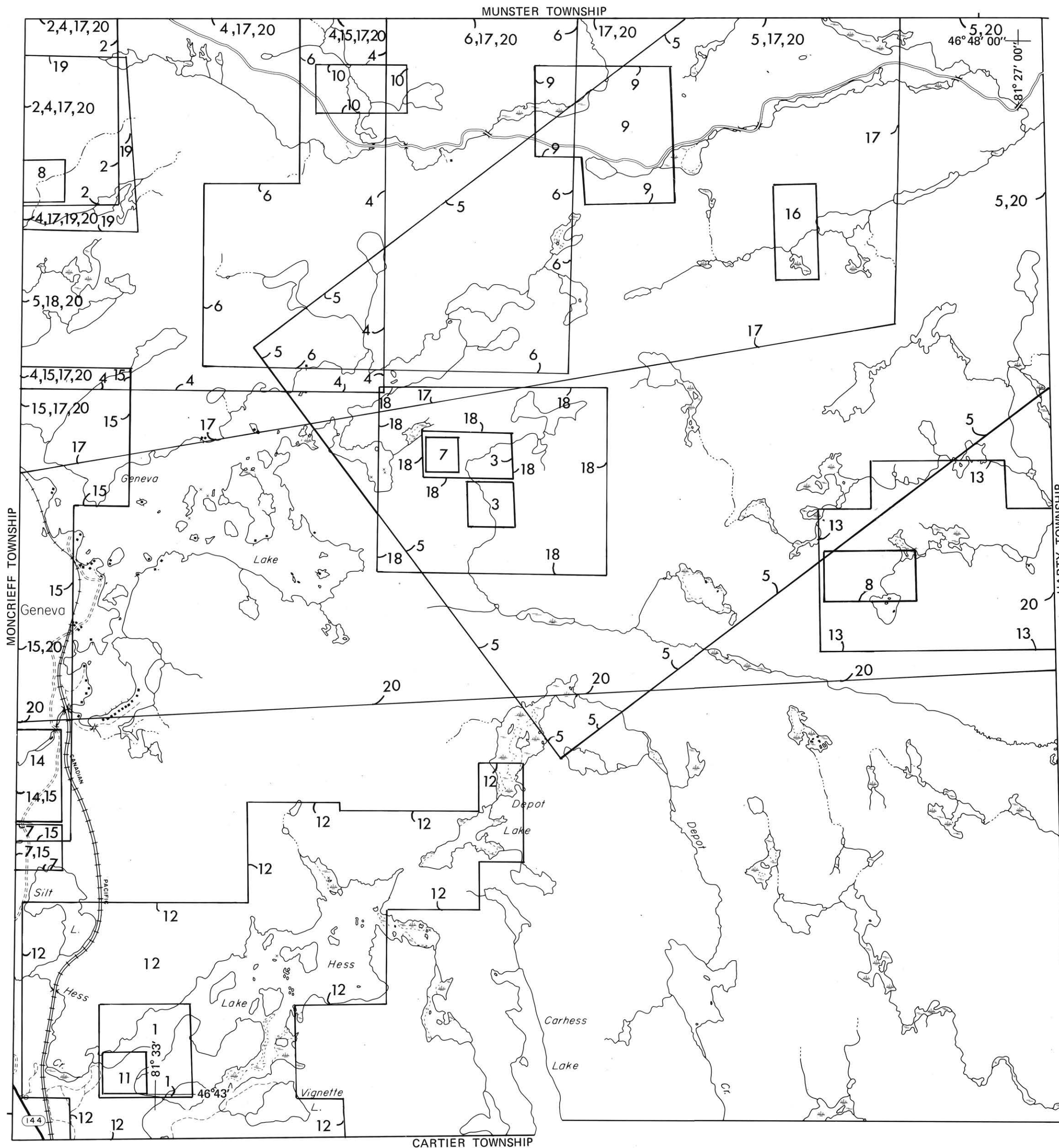
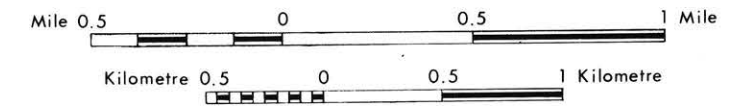
GEOLOGICAL DATA INVENTORY FOLIO 244

(Map 1 of 2)

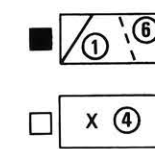
HESS TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680



EXPLORATION DATA FILE AREAS



Reference number is always inside work area outlined.
See listing in text pages.

Small area of exploration.



Ministry of
Northern Affairs
and Mines

René Fontaine
Minister
David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

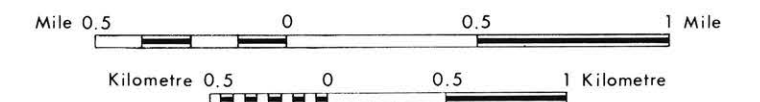
GEOLOGICAL DATA INVENTORY FOLIO 244

(Map 2 of 2)

HESS TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. Mineral occurrence at surface, with reference letter
- Au A. 84'. Mineral occurrence with shaft, depth given with reference letter
- Ag A. Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. Mineralized Float with reference letter

DRILL HOLES

- 2. Location of single drill hole, with reference number
- 2. Location of closely spaced group of drill holes, with reference number
- ? 2. Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- 2. Property with drill holes which have not been plotted on map, with reference number
- + 2. Reverse Circulation Drill Hole; Churn drilling, with reference number

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- 3. Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- 2. Age dating material sampling site, with reference number
- GC. Geochemical Anomaly

GEOPHYSICAL ANOMALIES

- AM. Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ARA. Airborne Radiometric Anomaly
- M. Ground Magnetometer Anomaly
- VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16) Ground Electromagnetometer Anomaly
- RA. Ground Radiometric Anomaly
- IP. Induced Polarization Anomaly
- SP. Self Potential Anomaly
- AFMAG. Audio-frequency magnetometer anomaly (total intensity)
- R. Resistivity Anomaly
- GR. Gravity Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit

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

