



Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY

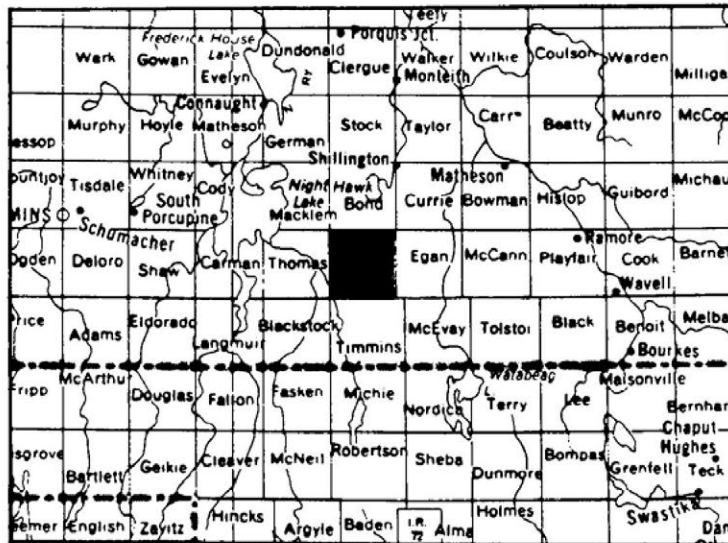
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 402

SHERATON TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the Staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP

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

NTS Number 42A/07

Mining Claim Map Number

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

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:

Ontario Geological Survey
1987: Sheraton Township, District of Cochrane;
Ontario Geological Survey, Geological
Data Inventory Folio 402, compiled by
the staff of the Resident Geologist's
Office, Kirkland Lake, 30p, and 2 maps.

Original Compilation by: Uttam Kalicharran

Date	Page Revised	Revised by	Date	Page Revised	Revised by

SHERATON TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map 1

Exploration Data Map 1

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

METALS AND MINERALS REFERENCES LIST

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

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

MINERAL OCCURRENCES		Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Card Lake Copper Mines Ltd. (T-213)	-	Resident Geologist Assessment Files Timmins	DDH #2 (1) * 0.01oz/T Au over 1 ft.
B	Roy, J.P.	C0236	Resident Geologist Assessment Files Timmins ODM 1940, vol.49, pt.4 pg.12 ODM 1969, OFR 5037 p.52 OGS 1971, MRC 13 pg.136 NMI File, 42A/07 ZN 1	Grab sample 0.37oz/T Au Grab sample 0.069oz/T Au Grab sample 0.13oz/T Au Mafic volcanic rocks and fragmental rocks are cut by porphyry dikes and by diabase. Quartz stringers and adjacent wallrock are mineralized with pyrite and a picked sample assayed 0.32oz/T Au.
C	Selco Explorations Co. Ltd. (T-1339)	-	Resident Geologist Assessment Files Timmins	DDH #9 (31) 0.01oz/T Au over 6 ft.
D	Armont Occurrence	-	ODM 1940, vol.49, pt.4, p.11 ODM 1969, OFR 5037 p.52 OGS 1971, MRC 13 p.136 (pages 7-9)	Quartz vein in Keewatin basalts and fragmental rocks is up to 1 foot wide and extends for 700 feet. 1935 - Some drilling by Goward Gold Mines Ltd. 1936 - Held by Armont Gold Mines Ltd.

* Number in brackets from Drillhole Summary sheets

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 TIMMINS	COMPANY/AUTHOR (file number)	TYPE OF WORK																
		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	PLUGGER
1	Bellechasse Mining Corp. Ltd. (T-704)	68		68							68	68						
2	Butler Claims (T-185)	47																
3	Card Lake Copper Mines Limited (T-213)			72														
4	Cominco Limited (T-341)				71													
5	Cominco Limited (T-650)				74						71	73	71					
6	Johns Manville Canada Inc. (T-1856)	84									81	81	84				83	
7	Ingamar Exploration Ltd. (T-1878)																	
8	Jarvi, Reino Property (T-664)																	
9	Johns-Manville Canada Inc. (T-2542)										81							

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 TIMMINS	COMPANY/AUTHOR (file number)	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
10	Kam-Kotia Mines Limited (T-1010)				64 65 67	67					65 66 67						
11	Lac Minerals (T-3002)				85 86						85 86						
12	Noranda Exploration Co. Ltd. (T-1816)										77						
13	Ontario Paper Co. Ltd. & Geomont Exploration Co. Ltd. (T-1745)	75									75			75			
14	Papont Resources Inc. (T-2820)	83									83						
15	Republic Ores & Mining Corp. Ltd. (T-400)																
16	Roy, J.P. (T-753)																
17	Selco Exploration Co. Ltd. (T-1339)	38															

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">TYPE OF WORK</p>		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Numbers below represent the year in which the work was done; e.g., 68 for 1968.</p>	
<p>EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE TIMMINS</p>	<p>COMPANY/AUTHOR (file number)</p>		
<p>18 Stairs Claims (T-179)</p>	<p>19 Sumach Resources Inc. (T-3018)</p>	<p>DRILLING 60 61</p>	
		<p>TRENCHING, STRIPPING</p>	
		<p>GEOLOGICAL</p>	
		<p>GEOCHEMICAL</p>	
		<p>UNDERGROUND WORK</p>	
		<p>ASSAY DATA</p>	
		<p>PROSPECTUS, NOTES, CORRESPONDENCE</p>	
		<p>AIRBORNE MAGNETOMETER</p>	<p>85</p>
		<p>AIRBORNE ELECTROMAGNETIC</p>	<p>85</p>
		<p>AIRBORNE RADIOMETRIC</p>	
		<p>GROUND MAGNETOMETER</p>	
		<p>GROUND ELECTROMAGNETIC</p>	
		<p>GROUND RADIOMETRIC</p>	
		<p>INDUCED POLARIZATION</p>	
		<p>SELF POTENTIAL</p>	
		<p>RESISTIVITY</p>	

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	Card Lake Copper Mines Ltd. (T-213)	2	9/72	220°	-50°	125'	452'	qcv,py,po,q	Au,Cu,Zn	
2	"	1	7/72	-	-90°	86'	102'	py,po,cp	-	
3	Cominco Limited (T-341)	R-1	8/71	360°	-45°	188'	505'	py,gf	-	
4	Cominco Limited (T-650)	RA-2	7/74	-	-130°	244'	244'	abandoned	-	
5	"	RA-2A	7/74	-	-115°	220'	553'	py,gf,qcv carb,cp	-	
6	Jarvi, Reino Property (T-664)	2	9/72	270°	-50°	125'	201'	qcv,py,po,q	-	
7	Kam-Kotia Mines Ltd. (T-1010)	S-1	12/64	8°	-50°	4'	249'	py,cp	-	
8	"	S-2	12/64	354°	-50°	3'	380'	py,q,calc po,qcv,cp	-	
9	"	S-3	1/65	30°	-50°	130'	303'	py,po,cp	-	
10	"	S-4	1/65	30°	-50°	27'	262'	py,carb,po qcv,cp	-	
11	"	S-5	1/65	30°	-50°	24'	187'	cp,qcv,py	-	
12	"	S-6-1	1/65	30°	-50°	30'	70'	cp	-	
13	"	S-6-2	1/65	30°	-50°	68'	68'	abandoned	-	

* - Length of overburden down drillhole † - Core stored at Svestika Core Storage Library

? - Location unknown xx - No date

** - No drill logs ** - From till heavy mineral concentrates

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										
14		Kam-Kotia Mines Ltd. (T-1010)	S-7	1/65	30°	-50°	16'	238'	py, po, cp carb	-
15		"	S-8	2/65	-	-90°	4'	57'	-	-
16		"	S-9	2/65	30°	-50°	14'	302'	py, qcv	-
17		"	S-10	2/65	30°	-50°	10'	35'	-	-
18		"	S-11	2/65	354°	-50°	3'	307'	py, cp	-
19		"	S-12	2/65	30°	-50°	152'	162'	-	-
20		"	S-13	3/65	30°	-50°	100'	350'	qcv	-
21		"	S-14	7/65	30°	-45°	31'	400'	qcv, py, carb	-
22		"	S-15	7/65	210°	-45°	-	184'	carb, py	-
23		"	2	3/67	90°	-50°	123'	424'	py, mag, sp cp, qcv	Au, Ag, Cu Ni, Zn
24		"	1	2/67	270°	-50°	149'	606'	cp, carb, py gf, mag, qcv, q	Au, Ag, Cu Ni, Zn
25		Lac Minerals (T-3002)	Sh-5-A	11/85	-	-90°	180'	626'	mag, carb py, q, qcv	-
26		"	Sh-3-B	1/86	-	-90°	218'	687'	mag, q	-
27		"	Sh-14-A	2/86	270°	-65°	156'	807'	py, calc, q qcv, hem	-

* - Length of overburden down drillhole † - Core stored at Swastika Core Storage Library

? - Location unknown xx - No date

** - No drill logs ++ - From till heavy mineral concentrates

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										
28	Lac Minerals (T-3002)	Sh-4-A	11/85	270°	-65°	252'	757'	py,qcv,carb calc	-	
29	" "	Sh-Tr-1	1/86	360°	-65°	392'	987'	calc,q	-	
30	Republic Ores & Mining Corp. Ltd. (T-400)	72-6	4/72	-	-60°	65'	576'	py,serp,qcv	-	
31	Selco Exploration Co. Ltd. (T-1339)	9	1966	330°	-50°	135'	357'	py,cp	Au,Ag	
32	Stairs Claims (T-179)	1	11/60	310°	-90°	12'	454'	py,q	-	
33	" "	2	12/60	310°	-50°	21'	502'	py,cp qcv,q	-	
34	" "	3	12/60	310°	-50°	29'	407'	qcv,py mag,q	-	
35	" "	4	12/60	310°	-50°	24'	403'	qcv,py,q	-	
36	" "	5	1/61	310°	-54°	48'	400'	py,qcv q,cp	-	

* - Length of overburden down drillhole † - Core stored at Svastika Core Storage Library
 ? - Location unknown xx - No date
 ** - No drill logs ++ - From till heavy mineral concentrates

AIRBORNE GEOPHYSICAL SURVEY DATA

By For		Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	Digham Ltd. Cominco Ltd. (T-341)	Magnetic	200'	N-S	1/8 & 1/4 mi.
5	Digham Ltd. Cominco Ltd. (T-650)	Magnetic	200 plane 170 bird	N-S	1/8 mi.
		Electromagnetic	140'		
	Geoterrex Ltd. Cominco Ltd. (T-650)	Magnetic Electromagnetic	150'	N-S	1/8 mi.
7	Ingamar Exploration Ltd. (T-1878) Ingamar Exploration Ltd.	Radiometric	200'	N-S	1/8 mi.
19	H. Ferderber Geophysics Sumach Resources Inc.	Magnetic Electromagnetic	250'	N-S	1/12 mi.

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Aerial Photographs

Black and White scale 1:1/4 mile
scale 1:1 mile

Landsat Data scale 1:500,000

Band 3 , 9/5/83
Band 4 , 31/2/83
Bands 1+2+4 , 2/10/83
Bands 1+2+4 , 9/5/83

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.

Kirkland Lake

Bellechase Mining Corp.

Nov 14, ?

QC Explorations

The Northern Miner

Jun 06, 1975

Jun 06, 1975

ODM GENERAL INDEX SEARCH

Words searched:

Sheraton Township

Index Volume	Listing:	Report Volume	Part	Page
2	Sheraton Tp., Coch. Agricultural area; character of country Gold discoveries Map Geological see also map 31d with	31 31 34 31	7 1 7 7	6,28 52 4
3	Sheraton Tp., Coch. Gold m.g. properties Photo frontis Rocks, notes and photo Timber	49 49 49 49	4 4 4 4	11,28,18 4,5,7,8 3
9	Sheraton Tp., Coch. Copper float Gravity Survey of Tim-Matheson area	MDC 017 GR 135		77

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES		Date	Author	Reference		Map Scales and/or Report Pages
				Title		
				REGIONAL GEOLOGICAL COMPILATION MAPS		
	Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1970		Ontario Geological Map	ODMNA Map 2196	1:1 013 760
	Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1971		Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1:1 013 760
	Boissoneau, A.N.	1965		Algoma-Cochrane Surficial Geology, Ontario	ODL & F Map S365	1:506 880
	Card, K.D. Sanford, B.V.	1983		Geology of the Timmins Map Sheet (NM-17)	GSC OF 956	1:1 000 000
	Easton, R.M.	1986		Geochronology Compilation Map for Ontario: Sheet 3: East-Central Ontario, All Isotopic Systems	OGS Map P.2842	1:1 013 760
	Ginn, R.M.	1964		Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253 440
	Gordon, J.B.	1977		Gold Deposits of Ontario, East Central Sheet	OGS Map P.1228	1:1 013 760
	Gordon, J.B.	1980		Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760
	Guillet, G.R.	1977		Clay and Shale Deposits of Ontario	OGS Map 2358 (MDC 15)	1:200 000

SELECTED REFERENCES		Date	Author	Title	Reference	Map Scales and/or Report Pages
	Jost, M.	1977		Nickel Deposits of Ontario, East Central Sheet	OGS Map P.1062	1:1 013 760
	Lumbers, S.B. Milne, V.G.	1979		Ontario Geological Map, Explanatory Text, Legend and Diagrams of Major Lithologies, Structures and Zones of Metamorphism	OGS Map 2391	1:1 013 760
	Lumbers, S.B. Milne, V.G.	1979		Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
	McCrank, G.F. Brown, P.A. Misiura, J.D.	1980		Plutonic Rocks in Ontario, with map.	GSC OFR 706	
	MERQ-OGS	1984		Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
	Meyn, H.D. Howarth, J.R.	1977		Molybdenum Deposits of Ontario, East Central Sheet	OGS Map P.1246	1:1 013 760
	Meyn, H.D. Robertson, J.A.	1975		Iron Deposits of Ontario, East Central Sheet, Districts of Thunder Bay, Algoma, Cochrane, Sudbury, Timiskaming and Nipissing	ODM Map P.1043	1:1 013 760
	Ministry of Natural Resources	1985		Ontario Mineral Map	ODM Map 2472	1:1 584 000
	Minnes, D.G. Masham, J.S. Scott, D.W. Vos, M.A. & Yundt, S.E.	1983		Industrial Minerals of Ontario	OGS Map P.2591	1:1 500 000
	ODM	1969		Mining Divisions and Resident Geologists Districts	ODM Map 2189	1:1 584 000
	ODM	1974		Ontario Mineral Map	ODM Map 2310	1:1 584 000

GDF FORM NO. 9

SELECTED REFERENCES			Map Scales and/or Report Pages	
Author	Date	Title		Reference
ODM	1977	Ontario Geology and Principal Minerals	ODM Map 2389 (Rev.)	1:4 224 000
ODMNA	1971	Ontario Geology and Principal Mineral Collecting Localities, Discover Ontario	ODMNA Map 2211	1:4 224 000
OCS	1986	Geological Highway Map, Northern Ontario	OCS Map 2506	1:1 600 000
Pyke, D.R., Ayres, L.D. Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
Robertson, J.A.	1976	Mineral Potential Map of Ontario, East Central Sheet	ODM Map P.1099	1:1 013 760
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Springer, J.	1977	Ontario Mineral Potential, Timmins Sheet and Part of Noranda-Rouyn Sheet, Districts of Sudbury, Timiskaming and Cochrane	OCS Map P.1517	1:250 000
Data Plotting Services Inc.	1984	<u>GEOPHYSICAL MAPS</u> Matheson-Black River Area (BRIM) Magnetic Survey Total Field, based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000
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Author	Date	Title	
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GSC	1970	Watabeag River, Ontario. Aeromagnetic Series	GSC Map 294G (Rev.) 1:50 000
GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts, Ontario, Total Field Contour Map	GSC Map 7085G 1:250 000
GSC	1970	Watabeag River, Timiskaming and Cochrane Districts	GSC Map 8438G 1:31 680
GSC	1970	Watabeag River, Cochrane and Timiskaming Districts	GSC Map 8443G 1:31 680
ODMNA	1974	Aeromagnetic Index of Ontario	ODMNA Map 2229 1:1 900 800
OGS	1984	Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Sheraton Township	OGS Map 80 602 1:20 000 1:31 680
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins, NTS 42A	OGS Map 80 280 GSC Map 35142G 1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins, NTS 42A	OGS Map 80 281 GSC Map 35142G 1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A	OGS Map 80 282 GSC Map 35142G 1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A	OGS Map 80 283 GSC Map 35142G 1:250 000

Author		Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
			Title			
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A	OGS Map 80 284 GSC Map 35142G	1:250 000		
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins NTS 42A	OGS Map 80 285 GSC Map 35142G	1:250 000		
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins, NTS 42A	OGS Map 80 286 GSC Map 35142G	1:250 000		
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, K, Th, U/Th, U/K, Th/K, for line 51 (1), Timmins, NTS 42A	OGS Map 80 306 GSC Map 35142G	1:250 000		
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, K, Th, U/Th, U/K, Th/K, for line 52 (1), NTS 42A	OGS Map 80 307 GSC Map 35142G	1:250 000		
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Averill, S.A. MacNeil, K.A. Huneault, R.G. Baker, C.L.	1986	Rotasonic Drilling Operations (1984) and Overburden Heavy Mineral Studies, Matheson Area, District of Cochrane	OGS OFR 5569	61p.		
Baker, C.L.	1985	Overburden Stratigraphy of the Matheson Area: Advancing Thoughts on Ice Fronts (Abstract)	OGS Geo.Sci. Seminar & Open House '85	p.9		
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Author	Date	Title		
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Baker, C.L. Steele, K.G. McClenaghan, M.B.	1986	Gold Grains in Sonic Drill Core Samples (1985) from the Lake Abitibi-Matheson Area, District of Cochrane	OGS Map P.2958	1:100 000
Barlow, R.B. Pitcher, D.H.	1984	An Airborne Electromagnetic-Magnetic Survey of the Black River-Matheson (BRIM) Area, District of Cochrane	OGS MP 119	p.287-289
Bath, A.C.	1985	Black River-Matheson Economic Geologist Program	OGS MP 126	p.301-311
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Gleeson, C.F. Hornbrook, E.H.W.		1973	Moving Average - Residual Anomaly Maps Showing Distribution of Elements in Lake Bottom Sediments in the Timmins-Val d'Or Region		GSC OF 127	
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Hornbrook, E.H.W. Gleeson, C.F.		1983	Regional Geochemical Lake Bottom Sediment and Till Sampling in the Timmins-Val d'Or Region of Ontario and Quebec		GSC OF 112	
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Middleton, R.S.	1975	Gravity Control Network in the Timmins, Matheson and Cobalt Area, Cochrane and Timiskaming Districts, Ontario	ODM Geoscience Rept. 127	
Middleton, R.S.	1976	Gravity Survey of Geological Structures in the Timmins and Matheson Area, NTS 42A, Cochrane, Sudbury and Timiskaming Districts	ODM GR 135 Maps 2321 2322	
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OGS	1984	Ontario Mineral Deposit Inventory	OGS OFR 5470	
OGS	1986	Backhoe Till Samples, Stock, Taylor, Carr, Currie, Bowman and Sheraton Townships, District of Cochrane	OGS Map 80 793	1:100 000
OGS	1986	Sonic Drillhole 85-53, Thomas Township, Cochrane District	OGS Map 80 888	1:100 000

Author		Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
			Title			
OGS		1986	Sonic Drillhole 85-54, Sheraton Township, Cochrane District		OGS Map 80 889	1:100 000
OGS		1986	Sonic Drillholes 85-55 and 85-56, Sheraton and Egan Townships, Cochrane District		OGS Map 80 890	1:100 000
Pitcher, D.H.		1985	A Correlation of Airborne and Ground Electromagnetics With Sonic Drilling Results in the Black River-Matheson Area		OGS MP 126	p.334-340
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Pyke, D.R.		1978	Regional Geology of the Timmins-Matachewan Area, District of Cochrane and Timiskaming		OGS MP 82	p.73-77
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Richard, J.A. McClenaghan, M.B.		1985	Quaternary Geology of the Watabeag River Area, District of Cochrane, (42A/7)		OGS Map P.2950	1:50 000

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Satterly, J.	1958	Geological Map of the Province of Ontario	ODM Map 1958B	1:1 267 200	
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Steele, K.G. Baker, C.L. McClenaghan, M.B.	1986	Reconnaissance Till Sampling Program, Matheson-Abitibi Area, District of Cochrane	OGS MP 132	p.398-403	
Steele, K.G. McClenaghan, M.B. Baker, C.L.	1986	Gold Grains in Backhoe Till Samples (1984-85) from the Matheson-Lake Abitibi Area, District of Cochrane	OGS Map P.2983	1:100 000	
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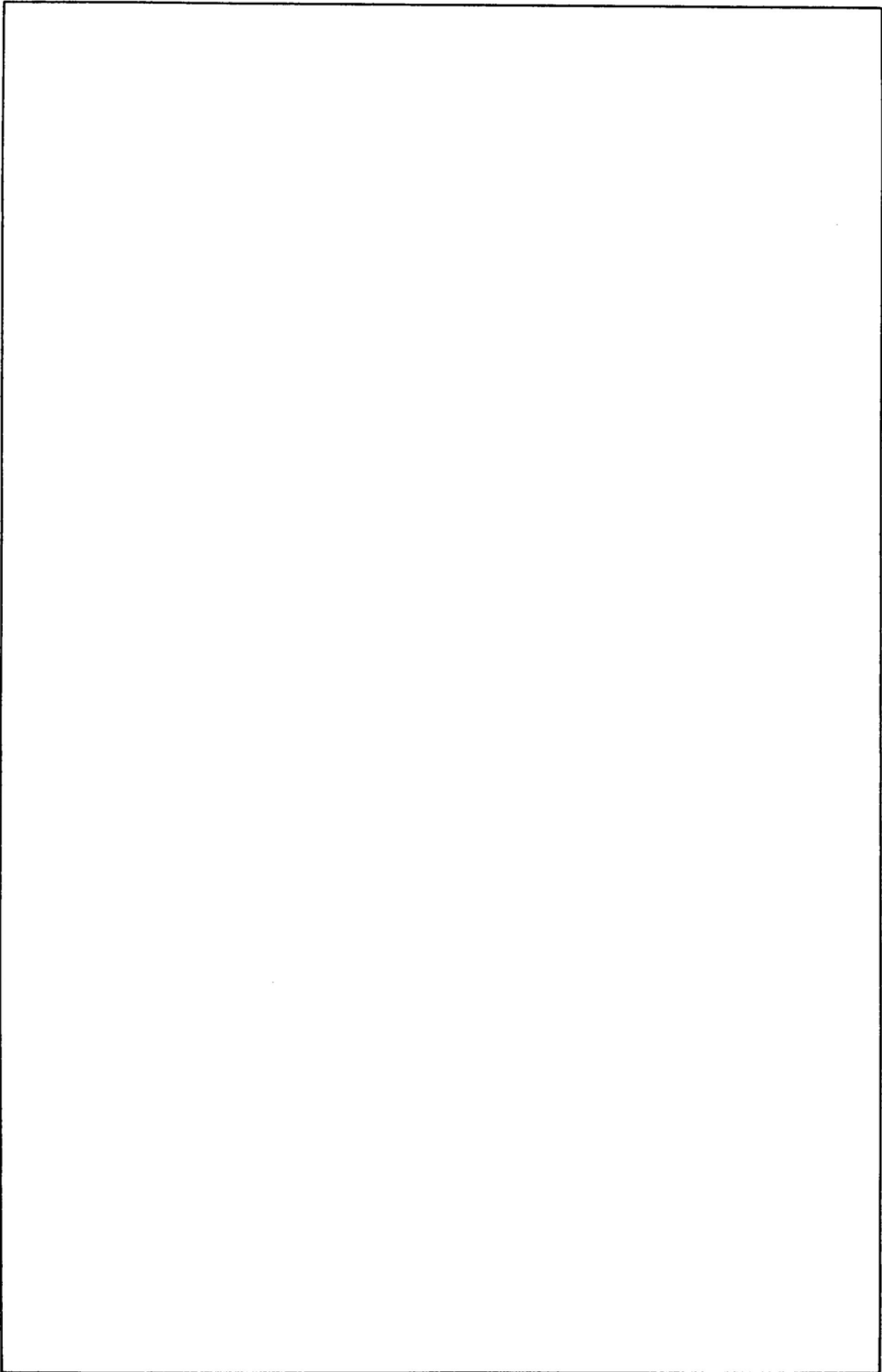
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	Tihor, L.A. Hunt, D.S.	1979		1978 Report of the Timmins Resident Geologist	OGS MP 84	p.50-67
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	Whittaker, P.J.	1985		Regional Metallogenesis of the BRIM Area, District of Cochrane (Abstract)	OGS Geo. Sci. Seminar & Open House '85	
	Whittaker, P.J.	1986		Metallogenic Studies in the Black River-Matheson Area, Cochrane District	OGS OFM 65	
	Whittaker, P.J. Malczak, J.	1984		Mineral Deposits Investigation in the Black River-Matheson (BRIM) Area, District of Cochrane	OGS MP 119	p.290-294
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	Wright, D.G.H.	1922		Geology of the Watabeag Area, Timiskaming and Cochrane Districts	ODM AR v.31, pt.7	33p
	Agterberg, F.P. Chung, C.F. Fabbri, A.G. Kelly, A.M.	1972		<u>JOURNAL ARTICLES, THESES AND TECHNICAL REPORTS</u> Geometrical Evaluation of Copper and Zinc Potential of the Abitibi Area, Ontario and Quebec	GSC Paper 71-41	55p.
	Canada Department of Agriculture	1978		Soils of Timmins-Noranda-Rouyn Area, Ontario, NTS 42A-32D	Can. Dept. of Agri. Soil Surv. Rept. No. 46	

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Jensen, L.S.	1985	Stratigraphy and Petrogenesis of Archean Metavolcanic Sequences, Southwestern Abitibi Subprovince, Ontario	GAC Spec. Paper No. 28	p.65-88
Kutina, J. Fabbri, A.	1972	Relation of Structural Lineaments and Mineral Occurrences in the Abitibi Area	GSC Paper 71-9	
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Middleton, R.S.	1975	Gravity Control Network in the Timmins, Matheson and Cobalt Area, Cochrane and Timiskaming Districts, Ontario	ODM GR 127	

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

NOTES AND ADDENDA

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ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 402

(Map 1 of 2)

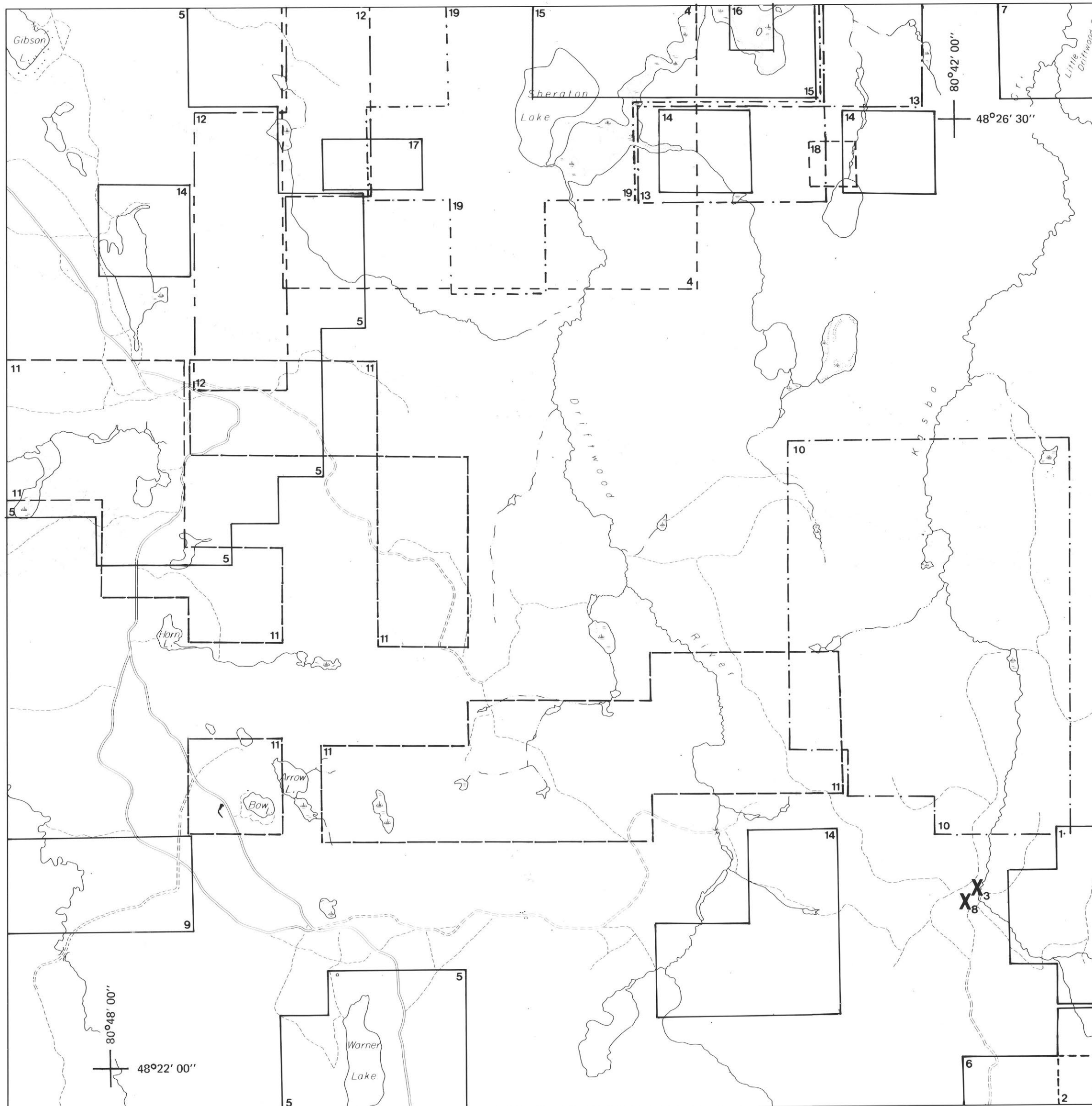
SHERATON TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Miles






EXPLORATION DATA FILE AREAS

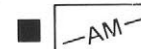

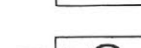







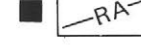


- Reference number is always inside work area outlined. See listing in text pages.
- Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP



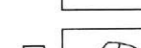


GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

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

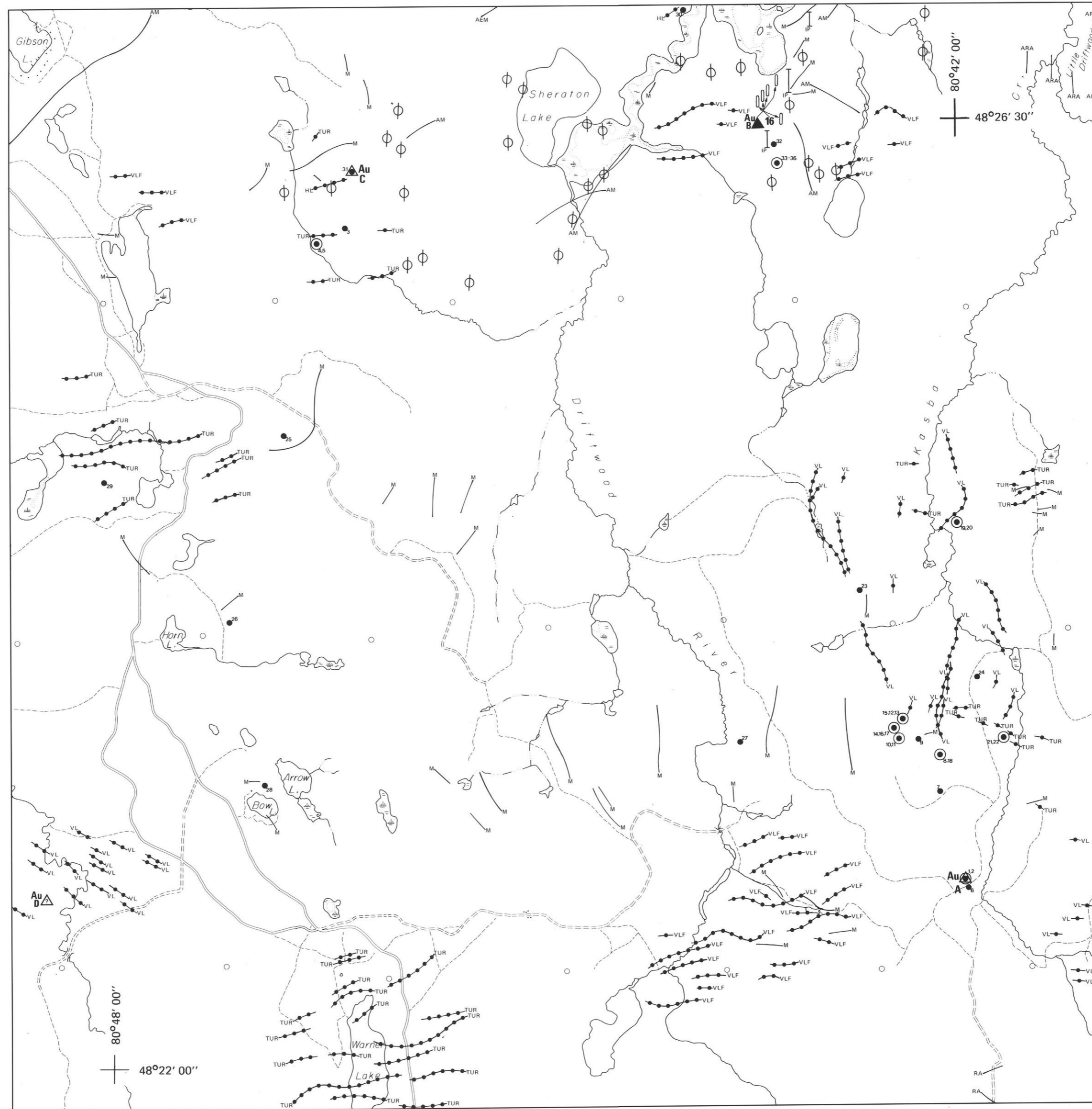
GEOPHYSICAL ANOMALIES

-  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 with reference number
-  Adit
-  Open pit
-  Rock quarry
-  Sand and/or gravel pit

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



Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

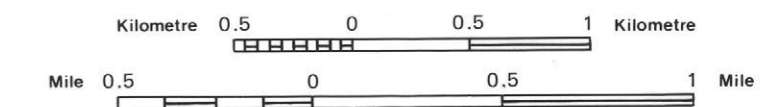
GEOLOGICAL DATA INVENTORY FOLIO 402

(Map 2 of 2)

SHERATON TOWNSHIP

DISTRICT OF SUDBURY






Scale 1:31 680





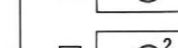



GEOLOGICAL AND MINING SYMBOLS

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 drillhole number

DRILLHOLE

-  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 and number