

THESE TERMS GOVERN YOUR USE OF THIS DOCUMENT

Your use of this Ontario Geological Survey document (the “Content”) is governed by the terms set out on this page (“Terms of Use”). By downloading this Content, you (the “User”) have accepted, and have agreed to be bound by, the Terms of Use.

Content: This Content is offered by the Province of Ontario’s *Ministry of Northern Development and Mines* (MNDM) as a public service, on an “as-is” basis. Recommendations and statements of opinion expressed in the Content are those of the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances. Users should verify the accuracy and applicability of any Content before acting on it. MNDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable. MNDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the Content. MNDM assumes no legal liability or responsibility for the Content whatsoever.

Links to Other Web Sites: This Content may contain links, to Web sites that are not operated by MNDM. Linked Web sites may not be available in French. MNDM neither endorses nor assumes any responsibility for the safety, accuracy or availability of linked Web sites or the information contained on them. The linked Web sites, their operation and content are the responsibility of the person or entity for which they were created or maintained (the “Owner”). Both your use of a linked Web site, and your right to use or reproduce information or materials from a linked Web site, are subject to the terms of use governing that particular Web site. Any comments or inquiries regarding a linked Web site must be directed to its Owner.

Copyright: Canadian and international intellectual property laws protect the Content. Unless otherwise indicated, copyright is held by the Queen’s Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Ontario Geological Survey 1990. Leask Township, Geological Data Inventory Folio 492; compiled by the staff of the Resident Geologist’s office, Sudbury, 14p., 2 maps.

Use and Reproduction of Content: The Content may be used and reproduced only in accordance with applicable intellectual property laws. *Non-commercial* use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any *commercial* use of all or part of the Content is prohibited without the prior written permission of MNDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

Contact:

FOR FURTHER INFORMATION ON	PLEASE CONTACT:	BY TELEPHONE:	BY E-MAIL:
The Reproduction of the Content	MNDM Publication Services	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	Pubsales.ndm@ontario.ca
The Purchase of MNDM Publications	MNDM Publication Sales	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	Pubsales.ndm@ontario.ca
Crown Copyright	Queen’s Printer	Local: (416) 326-2678 Toll-Free: 1-800-668-9938 (inside Canada, United States)	Copyright@gov.on.ca



Ministry of
Northern Development
and Mines

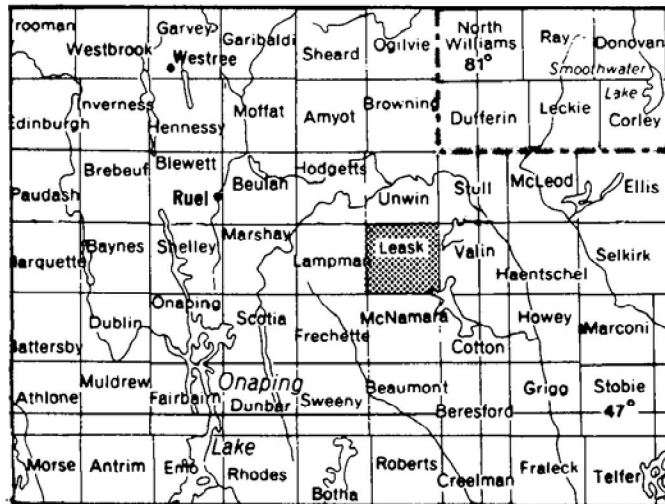
Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 492

LEASK TOWNSHIP

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



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 41 P/3

Mining Claim Map Number M.983

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:

Ontario Geological Survey 19 90 Leask Township, Geological Data Inventory Folio 492; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille, August 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

TABLE OF CONTENTS

Data Sources Checklist	1
Metals and Minerals Reference List	2
Mineral Occurrences	3
Type of Work	4
Drill Hole Summary	5
Airborne Geophysical Survey Data	6
Geochemical Survey Data	7
Miscellaneous Data	8
Newspaper Clipping File	9
ODM General Index Search	10-11
Selected References	12-13
Notes and Addenda	14
(Aerial Photographs Index)	

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

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	
△ cp. Chalcopyrite	△ mag. Magnetite	△ serp. Serpentine	
△ 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 (flurospar)	△ 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	Major Leckie's Shaft	Co, Cu			Leask 0010

LEASK 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		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	Elliott, A. (Leask 0010)											84				84				

DRILLHOLE SUMMARY

Map Drilling Location Number	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

LEASK TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA			Flight Altitude	Flight Line Direction	Flight Line Spacing
No.	By For	Type of Survey			

GEOCHEMICAL SURVEY DATA

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

LEASK TOWNSHIP

7

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Major Leckie's Shaft - Around 1910 Major J. A. Leckie and an exploration group sank a shaft of some 40 to 50 feet in depth in northwestern Leask Township on a vein of massive cobalt sulphides. In 1983 A. Elliot sought and found this same shaft and performed some geophysical work in the area. (Leask 0010)

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.

ODM GENERAL INDEX SEARCH

Words searched:

Barnet Lake
Elliott, A.
Leask Township
Leckie, Major J. A.
Prune Lake

Index Volume	Listing:	Report Volume	Part	Page

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>REGIONAL GEOLOGICAL COMPILATION MAPS</u>			
Card, K. D.	1967	Westree Sheet		ODM Map P.300	1" = 2 miles
Card, K.D., Lumbers, S.B.	1974,75	Sudbury-Cobalt Geological Compilation (revised)		OGS Map 2361	1" = 4 miles
		<u>GEOPHYSICAL MAPS</u>			
GSC - ODM	1965	Aeromagnetic Map - Thor Lake		1520G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Gogama-Gowganda Area		OGS Map P.2481	1:100 000
ODM - GSC	1965	Aeromagnetic Map - Gogama Sheet		7076G	1" = 4 miles
	1979	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Gogama		Map 80 374	1:250 000
		<u>SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING</u>			
EMR	1975	Topographic Map - Thor Lake		41 P/3	1:50 000
Roed, M.A., Hallett, D. R.	1980	NOEGTS Data Base Map, Westree NOEGT Study 88, Westree Area		Map 5022	1:100 000
Salo, E.V., Carswell, B.F.	1987	Surficial Geology of Northern Ontario		OGS Map 2518	1:1 200 000
		<u>MINERAL POTENTIAL MAPS</u>			
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet		OGS Map P.1514	1:250 000

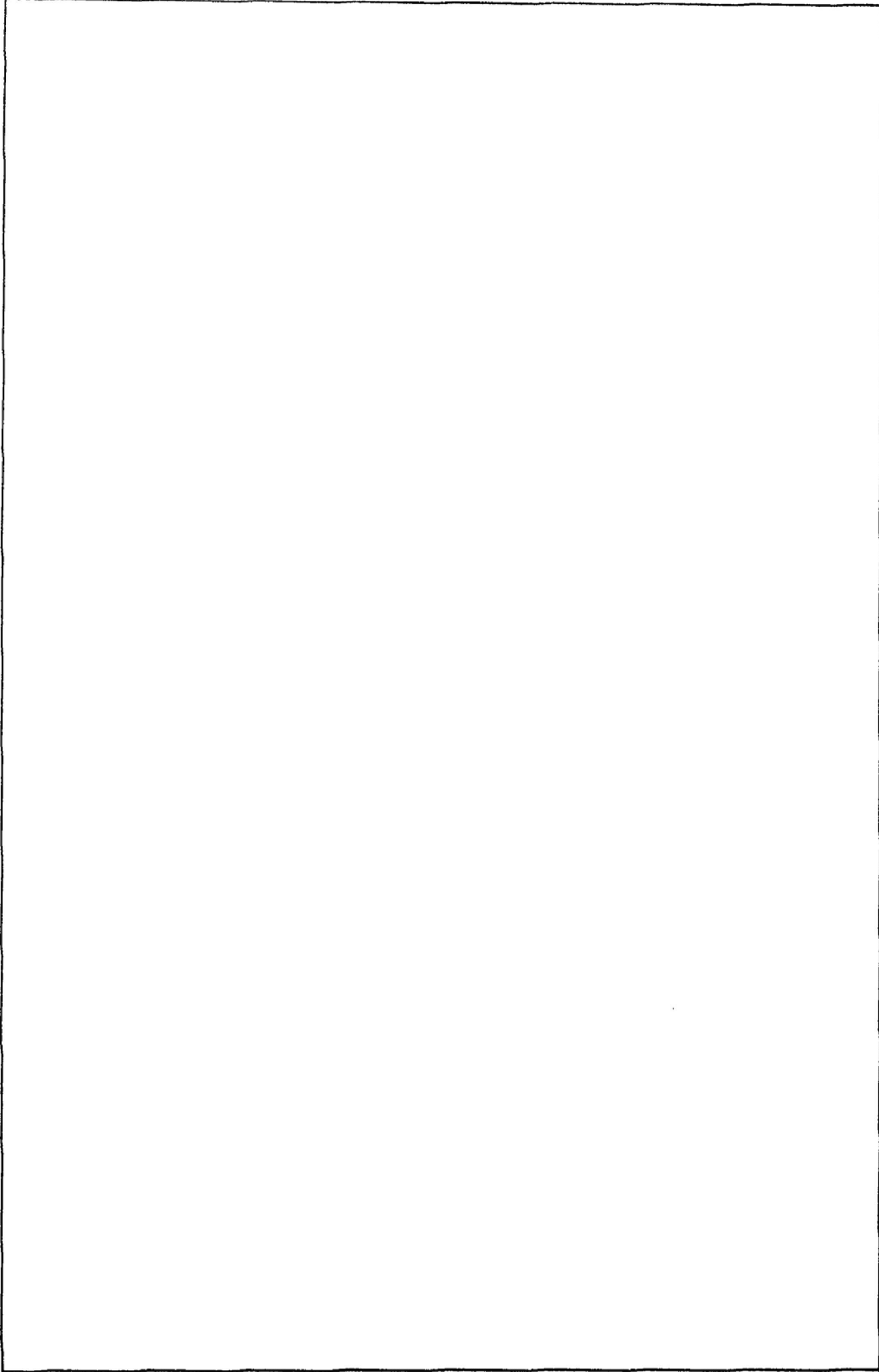
Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>GEOCHEMICAL MAPS</u>			
		No data available as of August 10, 1988			
		<u>GEOLOGICAL REPORTS AND MAPS</u>			
		No data available as of August 10, 1988			
		<u>JOURNALS, ARTICLES, THESES AND TECHNICAL REPORTS</u>			
Chandler, F. W.	1986	Sedimentology and Paleoclimatology of the Huronian (Early Aphebian) Lorrain and Gordon Lake Formations and their Bearing on Models for Sedimentary Copper Mineralization		GSC Paper 86-1A	pp. 121-132
Eade, K. E.	1950	The Huronian Rocks of Northwestern Ontario; M.Sc., McGill University		MP 2	
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation Ontario and Quebec, Canada		Theses on File	
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada		GSA Bull. 80	pp. 1685-1702
Parkinson, R.N.	1951	A Study of Rock Alteration Associated with Silver Mineralization in Cobalt, Ontario; M.A.Sc., University of Toronto		MP 2	
Young, G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario, Canada. Earth's Pre-Pleistocene Glacial Record		Cambridge University Press	pp. 807-812

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS INDEX

Scale 1" = 1/4 mile

<u>Year</u>	<u>Roll</u>	<u>Line</u>	<u>Number</u>
1970	48	4710	242-248
	20	4709	85-91
	20	4708	20-27
	27	4707	238-244





Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

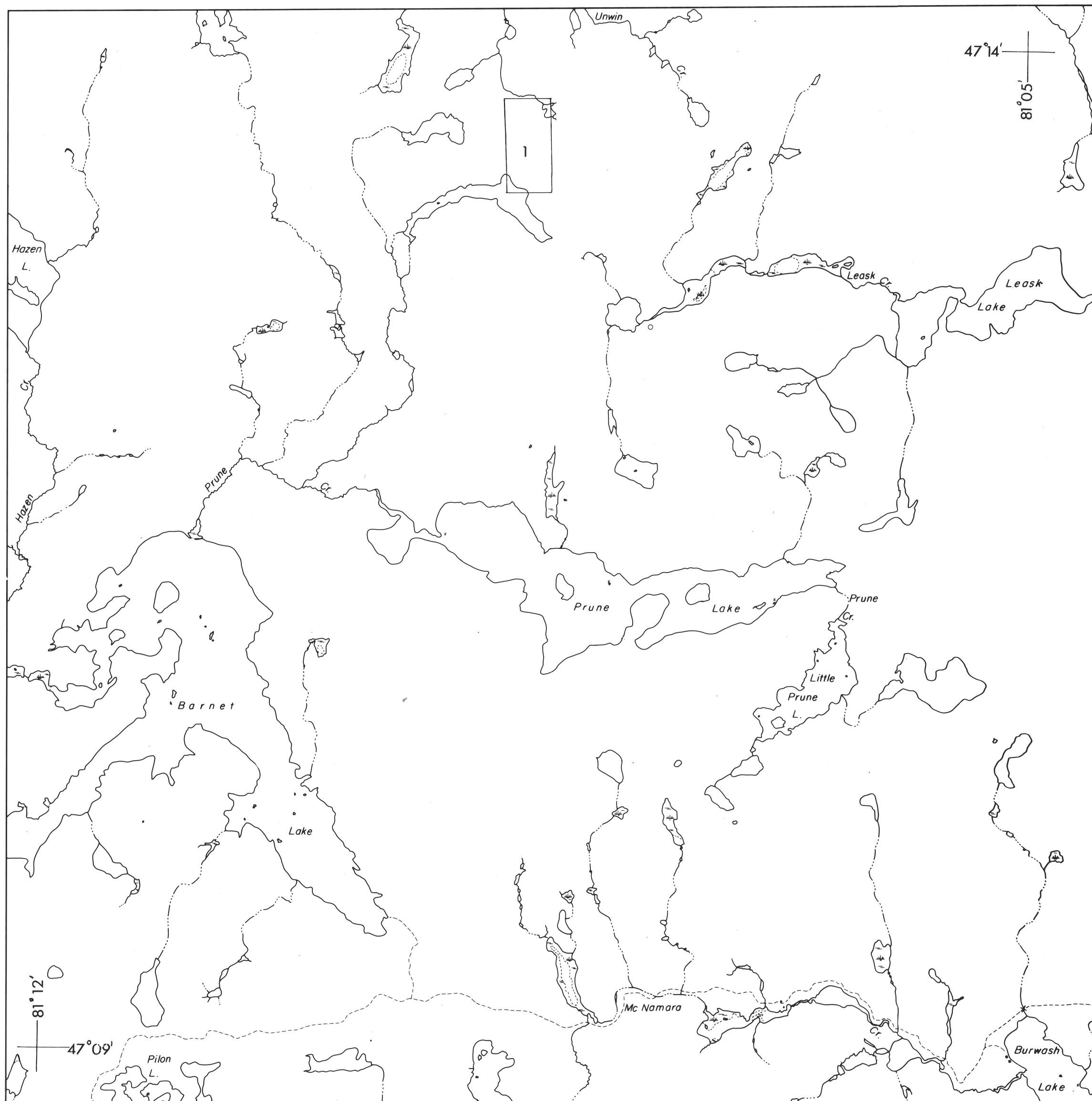
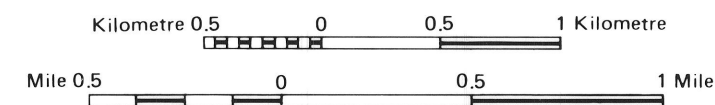
PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 492

(Map 1 of 2)

LEASK TOWNSHIP

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
- 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 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
- 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.

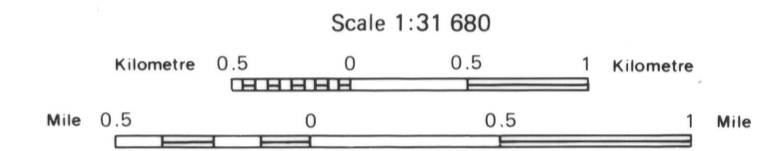


Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY
EXPLORATION DATA MAP
GEOLOGICAL DATA INVENTORY FOLIO 492
(Map 2 of 2)

LEASK 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