

GEOLOGY AND GEOPHYSICS

OF THE SHINING TREE PROPERTY

NATAL TOWNSHIP, ONTARIO

RECEIVED

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MINING LANDS SECTION

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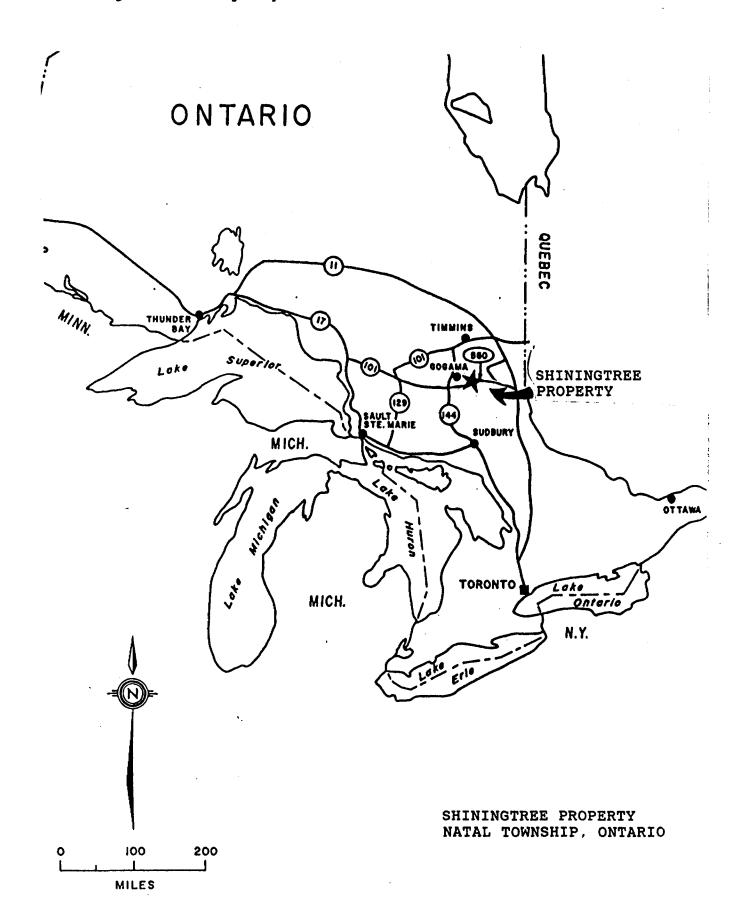
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Toronto, Ontario
April 22, 1991



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Figure 1. Property Location.



INTRODUCTION

Eight mining claims in southeast Natal Township, district of Sudbury, (Table 1) were explored for gold and base metals from July to October, 1990. A VLF-EM survey was conducted on six of the claims and seven claims were mapped and/or prospected. These claims are owned by the author.

This report and the accompanying maps describe the work done and summarize the results of the 1990 exploration programe.

Table 1. Mining Claims.

L1133932	L1134041
L1133933	L1134042
L1134039	L1134043
L1134040	L1134044

LOCATION AND ACCESS

The Shiningtree Project area is located in southeastern Natal Township, 18 kilometres northeast of the town of Shining Tree, 160 kilometres north of Sudbury, as shown in Figure 1.

Access from Shining Tree, or from Gowganda to the east, (Figure 2) is by gravel road (Highway 560) to a point approximately two kilometres south of the property. From here, logging roads provide two-wheel drive access to many parts of the claim group.

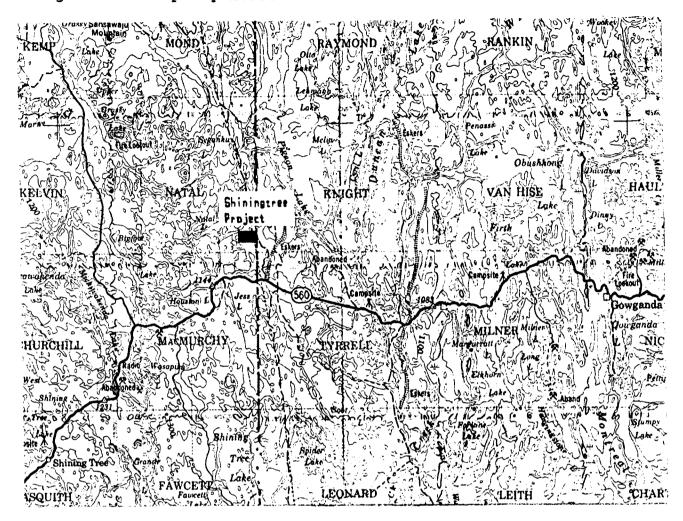
PREVIOUS WORK

No previous work has been conducted on the property by the author. Natal Township was withdrawn from staking by the provincial government from 1973 to April 1990 and little exploration work was done during that time. However, Getty Mines, Limited conducted exploration in, and to the east of, the current project area. Ground geophysics, soil sampling, mapping and the coring of one diamond drill hole comprised their work program. The hole was drilled on what is now claim 1134041.

WORK DONE

Geological mapping, prospecting and ground geophysical surveys were conducted on eight mining claims in Natal Township between July and October, 1990. Mapping and prospecting were conducted on claims numbered 1133932, 1134040, 1134042 and 1134043. Results are tabulated on the Geology Map (in back pocket). A VLF survey was conducted on claims numbered 1133932, 1133933, 1134039, 1134041, 1134043 and 1134044. Results are tabulated on the VLF-EM Map (in back pocket). Prospecting was carried out on parts of claims

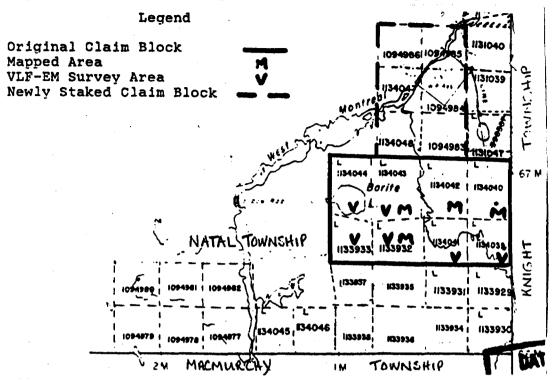
Figure 2. Property Access.



1133933, 1134044 and 1134039. The Prospecting Map (in back pocket) illustrates these results. Six additional claims were staked at the end of the project on the basis of favorable assay results from samples obtained on claims 1134040 and 1134042. The original eight claims, the new claims and the surveyed areas are outlined on Figure 3. A Magnetometer survey was planned for the 1990 field season but was not undertaken due to equipment malfunction.

An east-west baseline was cut, chained and picketed at 25 metre intervals across the southern edge of the eight claim group. Flagged compass lines were turned off to the north from the baseline every 100 metres. A second baseline, L95, was established using the same technique as above, with compass lines turned off to the east and west. Distance on both baselines was determined using Field Ranger 6000 hip chains. Geophysics and geology surveys were conducted using this grid. Rock sample locations were noted in reference to this grid.

Figure 3. Claims; Mapped and VLF-EM Surveyed Areas.



GEOLOGY

The majority of the property is underlain by various types of intermediate to mafic flows and pyroclastic units as illustrated on the accompanying Geology Map. The mapped area is bisected by a fault trending 70° which extends from the southeast border to the northeast corner of Natal Township (Carter, 1987). The rock units and their orientation are different on either side of the fault. The separation along the fault has not been determined.

Individual pyroclastic beds vary from less than a metre in thickness to greater than 10 metres. It is therefore difficult to isolate specific beds when correlating units from outcrop to outcrop. For this reason, broad groupings of units based on the most prevalent types of rocks have been delineated on the map.

Lithology West of the Fault.

On the western side of the fault the rock units strike 070-075° and dip very steeply northwest. They are intruded by an extensive but intermittently exposed diabase dike trending 170°. From south to north the lithology is as follows:

The southern boundary area is underlain by a group of rock units consisting of intermediate crystal tuffs and porphyritic flows. The tuffs are medium grained, grey-green to purple-grey with easily visible feldspar crystals and

small lapilli sized chlorite clots. These units are intercalated with aphanitic, medium grey-green, massive flows containing feldspar phenocrysts.

A small wedge of intermediate lapilli tuff and crystal tuff underlies the southwest corner of the mapped area. The lapilli tuff units exhibit a fine to medium grained matrix with both aphanitic and phaneritic intermediate volcanic fragments comprising up to 70% of the rock. The crystal tuffs are similar to those previously described.

Overlying this wedge are two groups of ash and lapilli tuffs. Ash tuffs predominate in the southern group, lapilli tuffs with aphanitic fragments predominate in the group to the north.

Further north, agglomerate (bomb tuff) and ash tuff units are intercalated in roughly equal volume. Agglomerates are characterized by fine to medium grained matrix containing bomb and block sized, intermediate volcanic fragments which comprise up to 75% of the rock. The ash tuffs are massive, fine grained, grey-green rocks. Locally they exhibit bedding. Occasionally these tuffs contain thin cherty bands at the stratigraphic top of the bed (to the north).

The northwestern corner of the mapped area is underlain predominantly by crystal tuffs. A small wedge of agglomerate is also present. The exposure of these rocks is obscured by a pink conglomerate composed of rounded clasts of various compositions (primarily granite, granodiorite, basalt) in a fine to medium grained matrix. This is interpreted as an outlier of Huronian metasedimentary rocks.

Adjacent to the fault the rocks are brecciated, sheared and highly carbonatized.

Lithology East of the Fault.

On the eastern side of the fault the units strike north to oiso and dip very steeply. From west to east the lithology is as follows:

A thin lens of brecciated, sheared and highly carbonatized rock of unknown original composition is present, parallel to the fault and also as a north-northeast trending lens, 50 metres east of the fault, straddling claims 1134042 and 1134041. These lenses may be altered intermediate flows which underlie most of the western side of the area east of the fault. These flows are aphanitic, homogranular, hard to moderately hard, medium grey-green and massive. They commonly contain small amounts of disseminated pyrite. A thin ultramafic unit is present, roughly conformable with the enclosing intermediate flows. This unit is coarse grained, dark green to black, massive to moderately foliated (north-northeast) and locally weakly magnetic. It is serpentinized. Large calcite-quartz-epidote-pyrite blebs are

present locally.

To the east of the flows, the area is underlain predominantly by mafic lapilli tuffs intercalated with less abundant ash tuffs. These rocks are massive to weakly foliated (north-northeast). The lapilli tuffs are fine grained, dark green, amphibole and chlorite bearing rocks with mafic, lapilli size fragments comprising 25-30% of the rock. The ash tuffs are similar but lacking in fragments.

Mafic to intermediate lapilli tuffs containing lenses of mafic to intermediate ash tuff, ultramafic rocks and intermediate crystal tuffs underlie the central part of the eastern block. Chlorite rich fragments are present in a dark green, amphibole bearing matrix and in a fine grained medium green matrix. The ash tuff, ultramafic rocks and crystal tuffs are similar to those previously described.

A thin band of mafic to intermediate ash and crystal tuffs underlies the western part of claim 1134039. The extent of this horizon has not been adequately determined as only one grid line was mapped in this area.

A sequence of intermediate ash tuffs, flows and mafic lapilli tuffs; mafic to intermediate lapilli tuffs, and mafic to intermediate ash tuffs underlie the eastern three quarters of claim 1134040. The characteristics of these rock types have been previously described.

GEOPHYSICS

A VLF-EM survey was conducted over six claims. The survey was conducted along N-S flagged lines with 25 metre station separation, using the Cutler, Maine station on claims L1133932, 1133933, 1134043 and 1134044. On claims L1134039 and 1134041 the survey was run on E-W flagged lines with 25 metre station separation using the Annapolis, Maryland station. The instrument used for the survey was a Crone Geophysics Limited Radem VLF EM Receiver. Specifications for the instrument and operational technique are included in Appendix I. Approximately 560 stations were recorded for a total of 14 kilometres surveyed.

Four distinct VLF conductors were located on the property, labeled S1 to S4 on the VLF Map. Conductor S1 is located in the southwest corner of the property. It trends 070° and is coincident with the geological boundary separating an area underlain predominantly by intermediate ash tuffs and one underlain predominantly by intermediate lapilli tuffs. This orientation is also parallel to the trend of numerous quartz-calcite veins containing pyrite, chalcopyrite, malachite and galena which are found to the north. The topography coincident with the conductor is low and swampy.

Conductor S2 is located in the western half of the property.

Much of the extent of the conductor is obscured by Barite Lake. The eastern half of the conductor trends 060° parallel to regional faults in the area, as does conductor S3. No surface expression of this conductor was observed during the mapping survey. Conductor S3 is parallel to and located south east of conductor S2.

Conductor S4 is located in the southeastern part of the property. It trends north-northeast and is along strike from Zone 2 (described in the Economic Geology section.) It was first located in 1976 by Getty Minerals, Ltd. who subsequently cored a diamond drill hole to investigate the conductor. Their drill log reports graphite in the core. No mineralization similar to that of Zone 2 was noted in the logs. This conductor was also located by a government Airborne Electromagnetic Survey flown in 1990. In this survey the conductor is shown to extend northward beyond the property. This conductor should be a primary target of continued exploration of the property.

ECONOMIC GEOLOGY

Two rusty weathered, silicified, pyritiferous zones, one strongly anomalous and one weakly anomalous in gold, were located, east of the fault. The largest and most anomalous zone (Zone 1) is within intermediate flows or tuffs, just south of the property boundary, in the northeastern part of the mapped area. The exposed zone is 3.5 metres in east-west dimension and 7 metres in north-south dimension. It is obscured on all sides by overburden.

Zone 2 is hosted by intermediate flows in the central part of the mapped area. It is very similar in character to Zone 1. Zone 2 consists of a number of small exposures separated by overburden. The group of exposures is 10 metres in the north-south dimension and 1-2 metres in the east-west dimension. The Ministry of Natural Resources' Airborne Electromagnetic Survey has located a conductor extending north-south over Zone 2. The same conductor was also outlined to the south of Zone 2 by the ground geophysics survey.

Other small lenses in the intermediate flow unit and angular boulders in overburden with features similar to Zones 1 and 2 have been located on claims 1134040 and 1134042.

Prospecting on claims 1133933 revealed numerous, thin (<=20 centimetres), quartz-carbonate veins strikeing 070-080° with minor amounts of malachite, chalcopyrite, galena, pyrite and barite.

Assay Results.

Thirty-eight rock samples and one humus sample were obtained for assaying. They were taken to the Swastika Lab in

Swastika, Ontario on August 31, 1990. All rock samples were fire assayed for gold and silver using 1 assay ton fusions. Six samples yielded >0.01 oz/ton gold, two of these yielded >0.1 oz/ton. The humus sample yielded 237 ppb. All anomalous gold samples were from Zone 1, from a small lens of Zone 1 type rock at 9+25N, 98+65W and from float. Zone 2 yielded gold assays of between 5 and 45 ppb. No silver assays were significant.

Eight samples were assayed for copper, one was assayed for nickel and one for lead. Copper assays up to 2340 ppm and lead assays up to 517 ppm were obtained from the quartz-carbonate veins sampled on claim 1133933. The nickel assays were not significant.

All sample information and assay results are tabulated in Appendix II.

RECOMMENDATIONS

The northeastern two claims (1134042 and 1134040), which contain Zones 1 and 2, and the newly staked claims to the north should be explored in detail. A cut grid is required on the claims and detailed geochemical and geophysical surveys should be conducted to identify additional zones of interest. The known showings should be stripped of overburden to determine their extent and orientation. Systematic rock sampling of the zones should then be undertaken.

The geology and geophysics surveys commenced in 1990 (including MAG) should be completed over the eight claims.

The additional six claims staked to the north should be mapped and explored by VLF and MAG techniques.

REFERENCES

Bryant, Gary.

1976: Report on Shining Tree Project, Arthur Lake Group. Getty Mines, Limited.

Carter, M.W.

1987: Geology of the Shining Tree Area, Districts of Sudbury and Timiskaming: Ontario Geological Survey Report 240, 48p. Accompanied by Map 2510, scale 1:50000.

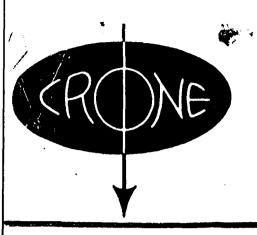
1983: Geology of Natal and Knight Townships, Districts of Sudbury and Timmiskaming, Ontario Geological Survey, Report 225, 74p. Accompanied by Map 2465, scale 1:31,680.

CERTIFICATE OF QUALIFICATIONS

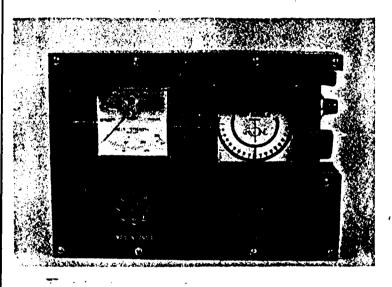
- I. Jennifer A. Clark. of #705 345 Dufferin Street. Toronto, hereby certify that:
 - 1. I graduated with a B.Sc. from the University of Toronto. in 1983.
 - 2. I have been employed as a geologist for seven years.
 - 3. I am a fellow of the Geological Association of Canada.

Date: May 15,1991

signature: Jemofut Clark



CRONE GEOPHYSICS LIMITED RADEM VLF EM RECEIVER



An EM receiver measuring the FIELD STRENGTH, DIP ANGLE and QUADRATURE components of the VLF communications stations.

This is a rugged, simple to operate, ONE MAN EM unit. It can be used without line cutting and is thus ideally suited for GROUND LOCATION OF AIRBORNE CONDUCTORS and RECONNAISANCE SURVEYS of MINERAL SHOWINGS. This instrument utilizes higher than normal EM frequencies and is capable of detecting poorly conductive sulphide deposits and fault zones. It accurately isolates BANDED CONDUCTORS and operates through areas of HIGH POWERLINE NOISE. The method is capable of deep penetration but due to the high frequency used its penetration is limited in areas of clay and conductive overburden.

The DIP ANGLE measurement detects a conductor from a considerable distance and is used primarily for locating conductors. The FIELD STRENGTH measurement is used to define the shape and attitude of the conductor.

- Instrument Sales, Rental and Repair Services
- Contract Survey Services
- Consulting Services
- Computer Plotting and Processing Services

SPECIFICATIONS'

SOURCE OF PRIMARY FIELD:

VLF Communications Stations 1 to 25 KHz

NUMBER OF STATIONS:

7 Switch Selectable

STATIONS AVAILABLE:

The Seven Stations May Be Selected From:

	CODE	STATION & LOCATION	CALL SIGN	FREQUENCY
Standard	CM	Cutler, Maine	NAA	240KHz
**	SW	Seattle, Washington	NLK	
**	AM	Annapolis, Maryland	NSS	
39	Н	Laulualei, Hawaii	NPM	
, 99 , 95 , 95	BOF	Bordeaux, Frace	NWU	
\$. n	E	Rugby, England	GBR	. 16.0 KHz
Optional	MS	Moscow, Russia	UMS	
* **	OD	Odessa (Black Sea)	EWB	. 15.6 KHz
**	NC	Exmouth, Australia	NWC	. 22.3 KHz
17	. HN	Helgelend, Norway	JXZ	. 17.6 KHz
1)	YJ	Yosamai, Japan	NDT	. 17.4 KHz
**	TJ	Tokyo, Japan	JG2AR	. 20.0 KHz
3)	BA	Buenos Aires, Argentina		

CHECK THAT STATION IS TRANSMITTING: Audible signal from speaker.

PARAMETERS MEASURED:

- (1) DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with a range of $\pm \frac{1}{2}^{\circ}$.
- (2) FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy ±2% dependent on signal. Meter has two ranges: 0-300% and 0-600%.
- (3) QUADRATURE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of the normal field strength, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy $\pm 2\%$.

OPERATING TEMPERATURE RANGE: -40°C to 50°C (-40°F to 120°F)

DIMENSIONS: 9cm:

 $9 \text{ cm} \times 19 \text{ cm} \times 27 \text{ cm} (3\frac{1}{2}\text{ m} \times 7\frac{1}{2}\text{ m} \times 10\frac{1}{2}\text{ m})$

SHIPPING DIMENSIONS:

 $30 \text{ cm} \times 14 \text{ cm} \times 36 \text{ cm} (11\%" \times 5\%" \times 14")$

WEIGHT:

2.7 kg (6 lbs)

SHIPPING WEIGHT:

6.0 kg (13 lbs)

BATTERIES:

2 of 9 volt

2 01 9 VOIT

Average Life Expectancy

20 Hours for Continuous Operation

^{*}Specifications subject to change without notice*



CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA LSC IV8
TELEPHONE: (416) 270-0096 CABLE: CRONGEO, TORONTO TELEX: 06-961260.

Australian Branch: 344 Neubridge Rand, MOOREBANK, N.S.W. 2176 Telephone: (02) 603-0937, Telex: 71-22922

INSTRUCTIONS FOR OPERATION OF THE RADEM VLF-EM RECEIVER

(1) Transmitter Stations

The VLF Communication Broadcast stations are positioned throughout the world. At present, 13 of these stations broadcast steadily except for maintenance periods usually of 1/2 to 1/3 days per week. The RADEM receives any 7 of these stations with selection by means of a switch. The usable range of the stations varies widely with power and transmission conditions but is usually between 1000 and 5000 miles. Two types of signals are broadcast "keyed" (on and off) and "frequency shift" (FM).

A station should be selected that is located in the same direction as the regional strike. For example, if the geological strike is east-west then a station located east or west of the operator should be used. If in doubt of the geological strike two orthogonal stations should be read.

(2) Field Measurements

(a) Dip Angle of Resultant Field

This is the angle of inclination, measured from the horizontal in degrees, of the direction of the resultant VLF field. The VLF field is normally horizontal (0° dip). The dip angle measurement is independent of the strength of the field and the gain setting of the RADEN receiver. When plotted on a profile the dip angles usually form a cross-over pattern above the conductor as with the standard vertical loop EM method.

To measure the dip angle the RADEM is first held with the instrument face horizontal and rotated until a null is obtained (visual minimum on the field strength meter and audio null). This aligns the RADEM with the

direction of the VLF field. The RADEM is then held vertically and tilted from right to left until another null is obtained. The instrument is held steady in this null position and the dip angle read from the inclinometer. Note that the arrow in CR9NE points towards the conductor if the arrow points north the dip angle is recorded as say 10°N. In making the dip angle measurement the Normal-K switch must be in the NORM position.

(b) Out-Of-Phase Measurement (Usually Not Measured)

The secondary field from a ground conductor often is not in the same phase as the primary field, therefore the resultant field will have an out-of-phase component.

To measure the out-of-phase component as a percent of the normal primary field the volume control of the amplifier must be set up as a standard. This is achieved at a base station in a normal area. The Field Strength range switch is placed in the 0 - 300 position. The RADEM held with the face horizontal and the body rotated until a maximum Field Strength reading is obtained. In this position the Volume control is adjusted until the meter reads "100". The Volume control is left at this setting until the base stition is read again usually one to several hours later. The Out-Of-Phase reading is the minimum position of the Field Strength meter when the dip angle of the resultant field is being measured. It is read at the same time as the dip angle is being read with the RADEM in the vertical null position.

The Out-Of-Phase measurement is sensitive to a lower order of conductivity than the dip angle measurement. For this reason it is often not recorded unless very poor conductors are being sought.

(c) # Horizontal Component of the Field Strength

This is simply the strength of the field in the horizontal plane. It is the maximum reading obtained from the Field Strength meter when the instrument is rotated in the horizontal plane. It is therefore at right angles to the null position. It is usually read after the dip angle measurement simply by holding the RADEM horizontal, the CRONE arrow pointing at right angles to the operator, and adjusting position for maximum reading in the horizontal plane.

If the signal is keyed the Normal-K switch is moved to the "K" position for the field strength reading. It must be returned to the normal position for dip angle measurement.

The field strength of VLF stations drifts with time. This drift is particularly severe during sunrise and sunset periods. A base station should be established in a normal area and the RADEM adjusted to a Horizontal Field Strength of "100" on the "0 - 300" scale by means of the volume control pot. This base or subsidiary base station should be read every one to two hours as in a magnetic survey.

Fraser's Method

Reference: Geophysics, Volume 34, No. 6, December 1969. "Contouring of VLF-EM Data"

This is a simple operation on the dip angle readings that more clearly defines anomalous areas. It requires a consistent reading interval usually 50' or 100'. It produces a survey in which the conductors are contoured much the same as a Horizontal Field Strength survey although lacking the detail possible with the Field Strength measurement.

Example of Field Sheet

Station	Out-Of- Phase-%	Dip Angle Degrees	Reading			ength Corr.	Remark
10N-Base	2	0	100	9:00	0	100	
10+50N	2	0	100	:02	0	100	Lake
11N	0	2N	99	:04	-1	98	Lake
11+50N	0	6N	101	:06	-1	100	
12N	0	12N	102	:08	-2	100	Road
12+50N	4	22N	118	:10	-2	116	
13N	6	20N	185	:12	-2	183	
13+50N	6	8N	263	:14	-3	260	X' Over
14N	0	18	247	:17	-3	244	
14+50N	0	125	164	: 20	-4	160	
10N-Base			114	10:10	-14	100	

- carry til

tion Shut-Down Timetable, March 1982.	Eas	te	n s	3.	Time
CUTLER, MAINE 24.0K Hz - Every Monday 1200 to 2000 UT (If holiday falls on Monday, maintenance will be performed on preceding Friday.)	7	am	to	3	mq
SEATTLE, WASHINGTON 24.8K Hz - Thursday 1600 to 2400 UT (During Daylight saving time 1500 to 2300 UT)	11	am	to	7	pm
LAULUALEI, HAWAII 23.4K Hz - Maintenance Wednesday and Thursday 1700 to 0500 UT.	12	am	to	12	? pm
ANNAPOLIS, MARYLAND 21.4K Hz - Every Tuesday 1200 to 2000 UT.	7	am	to	3	pm
NORTH WEST CAPE, AUSTRALIA 22.3 K Hz - Every Monday 0000 to 0800 UT.	7	pm	to	3	p m
RUGBY, ENGLAND 16.0K Hz ~ Everyday, 1300 to 1400 UT.	8	am	to	9	am
YOSAMI, JAPAN 17.4K Hz - A'irst Thursday and Friday of month 2300 to 0900 UT, every other Thursday and Friday 2300 to 0700 UT.	6	pm	to	1	am

List of Available Stations on the RADEM unit

Code Letter	Station and Location	Frequency	Call Sign
CM	Cutler, Maine	24.0K Hz	NAA
SW	Seattle, Washington	24.8K Hz	NLK
AM	Annapolis, Maryland	21.4K Hz	NSS
H	Laulualei, Hawaii	23.4K Hz	NPM
BOF	Bordeaux, France	15.1K Hz	NWU
E	Rugby, England	16.0K Hz	GBR
MS	Moscow, Russia	17.1K Hz	UMS
OD	Odessa (Black Sea)	15.6K Hz	EWB
NC	Exmouth, Australia	22.3K Hz	NWC
HN	Helgelend, Norway	17.6K Hz	JXZ
YJ	Yosami, Japan	17.4K Hz	NDT
TJ	Tokyo, Japan	20.0K Hz	JG2AR
BA	Buenos Aires, Argentina	23.6K Hz	• • •

Temperature Effect

Temperature drift may cause the field strength meter to null well below the zero mark. This should be corrected by the screw adjustment below the "Normal" switch on the front panel. Adjust with the volume control pot at 0.

Batteries: Two of #216 Eveready 9 Volt - Life: 20 Hours continuous.

crt. 5/4/82

APPENDIX 11. ASSAY RESULTS AND CERTIFICATES

SAMPLE	SAMPLE			ROCK		AU 2		AG	CU	NI	PB
Number	Number	NORTHING	EASTING	TYPE	(ppb)	(bbp)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
(map)	(tag)										
105	125101	6+75	95+40	2A, py Zone 1	2			0.1			
104	125102	7+50	98+65	ia/5a w/ ep;asb;qtz	0			0.1		47	
102	125103	7+25	97+10	2a float	7			0.1			
094	125104	7+12	97+90	2a: py Zone 2	22			0.3			
095	125105	7+10	97+90	silicified 2appy, Zn2				0.3			
096	125106	7+08	97+90	silicified 2appy:Zn2				0.4			
097	125107	6+90	97+90	silicified 2a,py,Zn2	5			0.1			
092	125108	8+85	98+40	gzun in 2a, py	19			0.1			
091	125109	9+25	98+65	rusty dacite, py	430	617		1.6			
089	125110	8+70	99 +20	2a; ca-qzvn	245			0.1			
088	125111	8+65	99+35	rusty 2a; py	2			0.1			
075	125112	9+50	95+50	silicified 2appy, Zn1	720			0.1			
110	125142	9+50	95+5D	humus	237	273		0.2			
111	125114	9+50	9 5+50	silicified 2appy,Zn1	5554	4937	6274	1.3			
112	125115	9+50	95+32	silicitied 2a,py,Zn1	. 58			0.1			
113	125116	9+50		silicified 2a,py,Zn1		2194		0.3			
076	125117	7+10		silicified 2a,py,Zn1				0.5			
072	125118	9+00	109+00	Dacite/lap. tuff, py	, 0			0.1			
071	125119	4+30	109+00	qzvn, cp, py, mal	7			0.1			
058	125120	5+00	100+80	fault bx. 1d	0			0.1			
074	125122	9+15	99+80	qzvn	170			0.1			
114	125123	2+00	95+00	barite vn, cp, mal	0			0.1			
115	125124	6+80	107+50	gzvn in 2d	0			0.1			
042	125125	2+50	102+20	chrt;cp;pv	0			0.1	7		
051	125126	5+8D	94+96	rusty bldr	549	413		0.1			
009	125127	4+85	104+00	qzvn	2	•		0.1			
116	125128	3+60	106+80	sheared, rusty	5			0.1			
117	125129	2+65	109+00	qzvn	9)		0.1			
118	125130	4+49	108+95	CaBaQzvn, ga,cp,py,	n 0			0.1	348		517
119	125131	4+49	10900	qzvni pyi cp	0)		0.1	102		
120	125132	4+45	109+00	CaQzvn; cp; py; mal	5)		0.2	2340		
124	125137	4+60	98+50	fault bx. 1d	12	<u>)</u>		0.1			
125	125138	6+75	97+88	1d; py	0			0.1			
127	125139	7+80	94+42	rusty 1c-2g	9	}		0.1			
128	125140	7+90	94+70	gzvn in andesite; p	y 39)		0.3			
129	125141	5+85	94+13	rusty 2a	384	617)	0.3			
131	125134	2+00	95+00	1b-2d	26)		0.3	76		
132	125135	1+40	95+20	29	7	?		0.1			
042a	125136	NE Quadr	ant-bldr	rusty chert	10	}		1.1	783		

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Sec. 3 & 17. 35

(E)

Numbers of claims from which samples taken	33932 + LI133933 NATAL TWP
Total Number of Samples	- ANALYTICAL METHODS
Cype of Sample Rock (Nature of Material)	Values expressed in: per cent
Average Sample Weight, 1 kg	r r r r
Soil Horizon Sampled	
Horizon Development	
Sample Depth Surface	
Perrain autorop	
	Reagents Used
Drainage Development Good	
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (
(Includes drying, screening, crushing, ashing)	Name of Laboratory Swasnika
Mesh size of fraction used for analysis	•
± 100 mesh	Extraction Method See below
**************************************	Analytical Method
	Reagents Used
General	General
	Au. Fire Assay Atomic Absorbtu
	Cuy Hel & nitric acid
	Ph A Atomic Absolbtion
	Ag HCl y agua regia, A.A.
Jenn	11 A. Charles
<i>V</i>	-

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken <u>L. 113</u> 1134039 NATAL TW	4040, 11340UZ, 11340V4, 11340V3,
Total Number of Samples. 32	- ANALYTICAL METHODS
Type of Sample Rock (Nature of Material)	- Values expressed in: per cent □ p. p. m. □
Average Sample Weight	- p. p. b. □
Method of Collection. GBBB.	Cu (Pb,) Zn, (Ni,) Co, (Ag,) Mo, As, (circle)
Soil Horizon Sampled	Others Au (ppb)
Horizon Development	-11
Sample Depth On	Extraction Method
Terrain outcop	Analytical Method
	_ Reagents Used
Drainage Development_good	_ Field Laboratory Analysis
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (SmASTIKA 32 Locktests) Name of Laboratory Sulfistika Extraction Method Analytical Method Reagents Used
General	General An - Fire Assay Atomic Absorbto Cu HCl & Nitric acid Ph A. A. Ni
	AgHU+aqua regià, A.A.



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

0W-1323-RG1

Company:

J. CLARK GEOLOGICAL SERVICES

Date: SEP-13-90

Project: Attn:

JENNIFER CLARK

Copy 1. #705-345 Dufferin St, Toronto M6K 3G1

We hereby certify the following Goochemical Analysis of 40 ROCK/HUMUS samples submitted AUG-31-90 by J. CLARK.

Sample MAR Number Number	Au	Au check	Au 2nd	Ag	Cu	Ni	Pb
	ppb	ppb	ppp	ppm	ppn	ppm	ग्युव
125101 105 125102 104	2 Ni i			0.1		45	
125103 102	7			0.1 0.1		47	
125104 094	22			0.1			
125105 675	45			0.3			
125106 096	33	*		0.4			*****
125107 097	5			0.1			
125108 092	19			0.1			
125109 09/	430	617	•	1.6			
125110 089	- 245			0.1		• • • • • • • • • • •	
125111 088	2			0.1			
1125112 075	720			0.1			
125114 ///	5554	- 4937	6274	1.3			
125115 //2 125116 //3	58	2104		0.1			
****************	2290	2194	,	0.3			• • • • • • • •
125117 076	69			0.5			
125118 072	Ni I			0.1			
125119 071 125120 088	7 Ni 1			0.1	258		
-125121-040	NI I		Allera Ballia manda a a a a a a a a a	0.1		not	
125122 0 74				trom, the desirable	e er	III.inclus	led
125123 //4	170 Ni 1			0.1			
125124 //5	Nil			0.1	625		
125125 042	Nil			0.1 0.1	7		
125126 051	549	413		0.1	•		
125127 009	2		*********	0.1			•••••
125128 //6	Š			0.1			
125129 //7	5 9			Ŏ. i			
125130 //8	Nit			0.1	348		517
125131 /19	Ni l			0.1	102		• • •
						• • • •	

Au was determined using 1 AT fusions

Certified by

G. Lebel / Manager



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Centificate

0W-1323-RG1

Company:

J. CLARK GEOLOGICAL SERVICES

Date: SEP-13-90

Project:

JENNIFER CLARK

Copy 1. #705-345 Dufferin St, Toronto M6K 3G1

We hereby certify the following Geochemical Analysis of 40 ROCK/HUMUS samples submitted AUG-31-90 by J. CLARK.

Sample	. Au A	Au check	Au 2nd	Ag	, Cr	Ni	Pb
Number	rpb.	ььр	ppb	ppm	ppm	ppin	ppm
125132 /20	5			0.2	2340	•••••	
125134 /2/	26			0.3	76		
125135 /32	2			0.1			
125136 042	10			1.1	783		
125137 /24	12			0.1			
125138 /25	Nil			0.1			
125139 /27	9			0.1			
125140 /26	39			0.3			
125141 /29	384	617		0.3			
125142 //0	237	273		0.2			

Au was determined using 1 AT fusions

Certified by

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario PoK 1T0



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

0W-1323-RG1

Company:

J. CLARK GEOLOGICAL SERVICES

Date: SEP-13-90

Project:

Cipy 1. #705-345 Dufferin St, Toronto M6K 3G1

Attn:

JENNIFER CLARK

We hereby certify the following Geochemical Analysis of 40 ROCK/HUMUS samples submitted AUG-31-90 by J. CLARK.

		u check	Au 2nd	Ag	Cu	Ni	Pb
Number	ob	ppb	ppb	pp:n	ppn	ppin	ppn
125101	2			0.1			
125102 N	ïl			0.1		47	
125103	7			0.1			
	22	•		0.3			
125105	45			0.3			
125106	33			0.4			
125107	5			0.1			
	19			0.1			
	30	617	•	1.6			
125110 2	45			0.1			
125111	2			0.1			
125112 7	20			0.1			
125114 55		4937	6274	1.3			
	58			0.1			
125116 22	90	2194		0.3			
125117	59			0.5			
	i l			0.1			
125119	7			0.1	258		
	il			0.1			
125121 N	11			0.1			
	70			0.1			
	11			0.1	625		
	il			0.1			
	i]			0.1	7		
125126 5	19	413		0.1			
125127	2			0.1			
125128	5			0.1			
125129	9			0.1			
	11			0.1	348		517
125131 N	11			0.1	102		

Au was determined using 1 AT fusions

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario POK 1T0

Talanhana (705) 649-9244

FAX (705)642-3300



Established 1928

Swastika Laboratories

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

0W-1323-RG1

Company:

J. CLARK GEOLOGICAL SERVICES

Date: SEP-13-90

Project:

Copy 1. #705-345 Dufferin St, Toronto M6K 3G1

**OOOOO? 2350*

Altn:

JENNIFER CLARK

We hereby certify the following Geochemical Analysis of 40 ROCK/HUMUS samples submitted AUG-31-90 by J. CLARK.

Sample	Aυ	Au check	Au 2nd	Ag	Cu	Ni	Pb
Number	ppb	ppb	ppb	ppm	ppm	ppm	ppm
125132	5			0.2	2340		
125134	26			0.3	76		
125135	2			0.1			
125136	10		•	1.1	783		
125137	12			0.1			
125138	Nil			0.1			
125139	9			0.1			
125140	39			0.3			
125141	384	617		0.3			
125142	237	273		0.2			

E.J. CLARK OR THE TORONTO-DOMINION BANK TORONTO DOMINION CENTRE BRANCH KING ST. W. & BAY ST. TORONTO, ONTARIO MSK IA2

Au was determined using 1 AT fusions

11º E 2 9 11

104

Certified by

#10212#004# 0691#0255452#

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario PoK 1T0 Telephone (705) 642-3244 FAX (705)642-3300



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Geochemical Analysis Certificate

0W-1299-RG1

Company:

ED, CLARK

Date: SEP-13-90

Project:

Copy 1. #705--345 Dufferin St. Toronto M6K 3G1

Attn:

We hereby certify the following Geochemical Analysis of 18 ROCK samples submitted AUG-31-90 by.

Sample		Au check	Ag	Co	Cu	Ni	
Number	ppb	ppb	ppm	ppm	ppm	ppm	
125151	Ni I		0.1		66		
125152	Ni 1		0.1		141		
125153	14		0.2		201		
125154	26	19	0.1		69		
125155	5		0.1		260		
125156	3		0.1		288		
125157	12		0.5		1240		
125158	22		0.1		273		
125159	5		1.1		3360		
125160	34	39	2.3		10800		
125161	Nil		0.1		100		
125162	36		0.1		65		
125163	34		0.3		2340		
125164	7		0.1		201		
125165	5		0.4		1080		
125166	127		1.2		15350		
125167	Nil		2.2	501	3540	113	
125168	12		0.1		43	. •	

Invoice 23136

E.J. CLARK OR JENNIFER A. CLARK

Sept 30, 90 62

PAY TO THE Swastila Laborato ries \$ 380.50 ORDER OF STREET Lundred, Sighty - 50/100 DOLLARS

THE TORONTO-DOMINION BANK TORONTO DOMINION CENTRE BRANCH 55 KING- ST. W. & BAY ST. TORONTO, ONTARIO M5K 1A2

#85 28#

1:10 21 2 m 00 4 1: 06 9 1 m 0 2 2 2 4 5 2 m

#00000038050#

104

Certified by_

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario Pok 1T0

Matanhana (705) 640 0044

TA T / MARIA A AAAA







and Lands Branch.

900

Report of Work

Mining Act

(Expenditures, Subsection 77(19))

Type of Work Performed	/ A		TOWNSHIP OF Area		
ROCK SAMPLING S Recorded Holder	& ASSAVING	LARDER LK	NATAL T	WP.	
Recorded Holder	7		Prospector	's Licence No.	
MICHAEL J. PERK	INS		A. ·	49379	
Address		_	Telephone	No.	
S14 CRAWFORD S	ST., TORONTO, DN	T. AT M66 3	J8 (416)	534-694	0
Work Performed By		112			
J. A. CLARK	2.141				
Name and Address of Author (of Submission)	•		361 Date Whe	n Work was Perform	ned
JENNIFER A. CLARK	425 315 Dece			7 90 30 0	18 JO
GENNIFER A. CHRK,			,		Mo. Yr.
All the work was performed on Mining Claim	111(3).	ys Mining Claim No. of Days Mir	ning Claim No. of Day	ns Mining Claim	No. of Days
Indicate no. of days performed on each clair See Note No. 1 on reverse side	1/33933 7.2	1133932 1.2			
Mining Claim No. of Days Mining Claim N	No. of Days Mining Claim No. of Da	ys Mining Claim No. of Days Mir	ning Claim No. of Day	s Mining Claim	No. of Days
Mining Claim No. of Days Mining Claim N	No. of Days Mining Claim No. of Da	lys Mining Claim No. of Days Min	ning Claim No. of Day	s Mining Claim	No. of Days
Instructions	Calculation of Expenditure	•		mber of Mining Clair	ms Covered
Total days credits may be distributed at holder's choice. Enter number of days cred	at Claim Total Expenditures	P	ays Oredits	Report of Work	
claim in the expenditure days credit of		28 ÷ 15 =	8:4	2	
(below). Mining Claims (List in numerical sequ		-	uired information		
, 				Mining Claim	T
Mining Claim Expend. Prefix Number Days Cr. P	Mining Claim Expe		Expend. Days Cr. Prefix	Mining Claim Number	Expend. Days Cr.
TIGHT HOMEON	10112	7,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110111001	100,000
					†
			·		
			RECE	MED	
			1140		1
					
			MAY 16	1991	

Total Number of Days Claimed Total Number of Days to be Claimed at a Future Date Total Number of Days Performed 8.4

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

<u> MARCH</u>

Received Stamp

LANDS SECTION

MINING

Certification Verifying Report of Work

Date Recorded

le Approved as Recorded

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying

MARCH. 7

Certified By (Signature)

For Office Use Only

Total Days Cr. Recorded

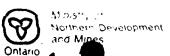
Mining Recorder

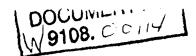
MAR 15 1991

RECEIVED LARDER LAKE

MINING DIVISION

TIME_10.59 am







Please type or print

Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type

. If number of mining claims traversed exceeds space on this form, attach a list

· Technical Reports and maps in duplicate should be submitted to

(B)	Northern Development and Mines	
Ontario	And Milles	



Report of Work 2. 14113

Type of Survey(s)	(Geophysical, Geo			lining Division		ownship or Area	Deve : I ment a	ing Cands Branch.
GEOPHYSICS Recorded Holderist	- ELECTRON	nAG		<i>ARDER</i>	KK.		TWP.	0
MICHAEL C			_+	116	56 B	78 Telephon		
51H CRAWFO	ORD STREE	ET, 10	RUNIT	D, DNTA	210	53	4-694	10 (416)
Name and Address of Author (or	f Geo-Technical Report)				MGK-	36.1 Date of \$	urvey (from	& to)
JENNIFER G	ARK #705-	345 Du	FFERIN	St. TORO	N70, (DNT. 25,	7 90 0	
redits Requested per Ea				laims Traversed ((List in nu	merical sequenc	e)	· · · · · · · · · · · · · · · · · · ·
Special Provisions		Days per	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	fining Claim	М	ining Claim	Mir	ning Claim
For first survey	Geophysical	Claim	Prefix	Number	Prefix	Number	Prefix .	Number
Enter 40 days (This includes	- Electromagnetic	40	1	1133932		anadasan dinga salah		
line cutting)	- Magnetometer			//33933				
For each additional survey: using the same grid	- Other							
Enter 20 days (for each)	Geological							
	Geochemical							
Man Days	, Geophysical	Days per Claim						The second state of the second
Complete reverse side and enter totalish here	Electromagnetic			*			<u></u>	· · · · · · · · · · · · · · · · · · ·
	: - Magnetometer :	Process statement of a special control of						
	- Other	-		•			and the court of the particular state	
	Geological			•				
	. Geochemica!							
Airborne Credits		Days per Claim				HEC	EIVE	D
Note: Special previsions credits do not apply to Airborne	Electromagnetic				·	MAY	6 1991	
Surveys	Magnetometer Other						l	
	Other		ļ		ļ	<u>-MINING LA</u>	NDS SE	CTION
Total miles flown over cl	and the second s					Total number o	,	
March 7/91 G	ecorded Holder or Agent	(Signature)			j	mining claims of this report of the control of the	overea	2
Certification Verifying Rep	oort of Work							
I hereby certify that I have a pelafter its completion and annexe	irsonal and intimate knowled report is true	ledge of the fac	is set fortniin	this Report of Work, h	having perfor	med the work or with	essed same d	turing and cr
Name and Address of Person C	_			er errer i Marayan Arishin a shekara Abin Misara asan a kum				
JENNIFER A.C	LARK . ADD	RESS /		Date	erander i signi gerannis mijurggann	Certified	By (Signature	e)

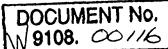
For Office Use Only

March 7 Received Stamp / RECEIVED LARDER LAKE MINING DIVISION

MAR 15 1991

Total Days Cr. Recorded Date Recorded Mining Recorder 80 362 (89 06)





(1<u>70</u>Fx) Instructions

· Please type or print

- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form, attach a list

Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Mining Act

Report of Work (Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) Mining Division Township or Area GEOPHYSICS - ELECTROMAG.
Recorded Holder(s) LARDER NATAL E DWARD A. 50680 Telephone No. DUFFERIN STREET, TORONTO, ONTARIO # 705 · 345 Survey Company Name and Address of Author (of Geo-Technical Report) Date of Survey (from & to) 90 ADDRESS SAME AS Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Mining Claim Mining Claim Mining Claim Days per Claim Geophysical Prefix Number Prefix Number Prefix Number For first survey: · Electromagnetic 40 1134 039 Enter 40 days. (This includes line cutting). - Magnetometer 1134041 For each additional survey: Other 1134043 using the same grid Geological 1134044 Enter 20 days (for each) Geochemical Man Days Days per Claim Geophysical Complete reverse side and - Electromagnetic enter totalisi here - Magnetometer - Other Geológical Geochemical RECEIVED Airborne Credits Days per Claim Note: Special provisions Electromagnetic credits do not MAY11-6-1991 apply to Airborne Magnetometer Surveys Other MINING LANDS SECTION Total miles flown over claim(s).

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true

Name and Address of Person Certifying

For Office Use Only

Date Recorded

Certification Verifying Report of Work

ADDRESS AS ABOVE)

Total number of

mining claims covered by this report of work

LARDER LAKE MINING DIVISION

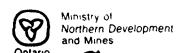
MAR 15 1991

Recorded Holder or Agent (Signature)

160 1362 (89 0€)

Total Days

Date





Report of Work

2.14113

Mining Act

(Geophysical, Geological and Geochemical Surveys)

Instructions

· Please type or print

- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form. attach a list.

Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)			- 1	Aining Division	1	ownship or Area		
GEOLOGICAL				LARDER LA	KE_1	VATAL	TWP	?
Recorded Holder(s)							or's Licence N	
M. J. PERKI	US					\mathcal{H}	4937	9
				A		Telephon	e No.	. , , , , ,
514 CRAWFO	RD ST.	IORO	NIO	ONT. MO	66_3	J8 534	-6940	0 (416)
Survey Company			•		·			
J. CLARK Name and Address of Author (o'								
Name and Address of Author (o		4 _	`				Survey (from	å to)
JENNIFER F	1. CLARK.	*705.34	5 DUF		IORON			30 08 90
Credits Requested per Ea	ch Claim in Column	ns at right		laims Traversed (
Special Provisions	Geophysical	Days per Claim		Mining Claim	 	lining Claim	1	ning Claim
For first survey	:	Claim	Prefix	Number	Prefix	Number	Prefix	Number
	- Electromagnetic	i	1 L	1133932				
Enter 40 days. (This includes line cutting)	- Magnetometer							
For each additional survey: using the same grid:	Other							
6 60	, Geological	20						
Enter 20 days (for each)	Geochemical				1			
Man Days	<u> </u>	Days per			 		 	
•	Geophysical	Claim					 	
Complete reverse side and enter total(s) here	- Electromagnetic							
	Magnetometer			·				
	- Other							
	Geological			•				
	Geochemical			!				
Airborne Credits		Days per Claim				RE	CEIV	ED
Note: Special provisions	Electromagnetic			!] ;			
credits do not apply to Airborne	Manadamatar			1	†	MAN	1 6 199	71
Surveys	Magnetometer					- IniA	1 0 133	71
	Other			i			مصيا	
Total miles flown over cl	aim(s)			,		MINING L	ANDS S	SECTION
	corded Holder or Agent	(Signature)	-		1	Total number of)ı [1
MARCH 7/91 -	Enneder X.	(Ca. A				mining claims		/
Certification Verifying Rep		- CAMIN			,	by this report of	of work.	
I hereby centify that I have a pe	rsonal and intimate know	ledge of the fact	ts set forth in	this Report of Work, h	naving perfor	rmed the work or with	essed same	during and/or
after its completion and annexe Name and Address of Person C		······································						
		0.500	erc C	E ARNIE	-			
JENNIFER I	A. CLARK.	Telepho	C 22 /	Date		Certified	By (Signatur	(0)
		1416	1531	0974 MAR	C/H 7/	91 0.	as die	A Clark
		(4,0	1321	Received	Stamp	11 July	migu s	N. Cran
For Office Use Only	,					ECEIVED	ν	
roi Office Use Offiy					LA	RDERLAKE		
					MIN	ING DIVISION		·
Total Days Date Recorded Cr. Recorded	Mining	Recorder	Fil		M	40 1 2 4004		
Jan 1				([,	M,	AR 15 1991		
1/1an	1.15/9/	- L	بيير	X A				
Date Approved	as Necorded Provide	iai manager, Mir	Sealos	set!			_	
17.	1/01	., -			TIME_(0.59 ans	3	
1262 (80)(16)	7771							
1362 (89/06)	· OF							





- Please type or print

- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form.

attach a list. - Technical Reports and maps in duplicate should be submitted to

Report of Work

2.14113

Mining Act	(Geophysical, Geo	logical and	Geocheili	icai Surveys)	Mining Lan	ids Section, Mineral I	Developmen	and Lands Branch:
Type of Survey(s)				Mining Division	1	ownship or Area		
Recorded Holder(s)	<u></u>			LARDER L	K. 1	VATAL	TWP.	
Recorded Holder(s)	7 /			•		Prospecto	or's Licence	
EDWARD 3	1. CLARK					14.5	0680	
Address	.			n .	40	Telephon	e No.	
# 705 - 345) Survey Company	DUFFERIN .	TREET,	10120	NIO, ONT.	MIGK 3	361 (416)	531-0	974
· · · · · · ·		,						
J.A. CLARK Name and Address of Author (of	Geo-Technical Report)					Date of S	survey (fron	a & to)
		ree ne	1200) -			7 90	30,08,90
JENNIFER CA Credits Requested per Ea	ch Claim in Column	s at right	Mining (Claims Traversed	List in nu		e)	Uay Mo 11
Special Provisions		71		Mining Claim	 	lining Claim		fining Claim
	Geophysical	Days per Claim	Prefix	Number	Prefix	Number	Prefix	Number
For first survey:	- Electromagnetic		,	1/2:10:10				
Enter 40 days. (This includes	2.00.io.ii.giio.io		12.	1134040	li			
line cutting)	- Magnetometer			1134042				
For each additional survey:	- Other	:			. !			
using the same grid.	Geological	110		1	 			
Enter 20 days (for each)	Leological	40		 	ļ			
	Geochemical							
Man Days	Geophysical	Days per Claim			į			
Complete reverse side and	F1	Ciaiiii	ļ		 	4	1	
enter total(s) here	- Electromagnetic							
	 Magnetometer 							
	Other							
				 	 			
	Geological	-		<u> </u>	ļ		ļ	
	Geochemical							
Airborne Credits	 	Days per				REC	EIVI	=D
		Claim		+			1	
Note: Special provisions credits do not	Electromagnetic			<u> </u>				
apply to Airborne	Magnetometer					MAY	1 6 199	11
Surveys.	Other						† 	
	Other	:		+	ļ <u>:</u>	MINING L	ANDS S	ECTION
Total miles flown over cl	aim(s).					Tatal acceptant		
Date Re	ecorded Holder or Agent	(Signature)		•		Total number of mining claims		2
March 7/9/	2) Clah		L	-1	J	by this report of		
Certification Verifying Rep	ort of Work							
I hereby certify that I have a peafter its completion and annexe	rsonal and intimate knowled report is true	ledge of the fac	cts set forth i	n this Report of Work. I	having perfo	rmed the work or with	nessed same	during and/or
Name and Address of Person C								

JENNIFER CLARK - ADDRESS AS ABOVE

Date March

For Office Use Only

Date Recorded

Mining Recorder

RECEIVED LARDER LAKE MINING DIVISION

MAR 15 1991

80

Total Days Cr. Recorded

1362 (89 06)

Ministry of Northern Development and Minos

Report of Work 9108. 00//8

Instructions

APR. 15

- Please type or print.

- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.

- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development

Y Mihi	ng Act	(Exper	iditures,	Subsection 7	7(19))		and L	ands branch.			
Type of Work Pe	rformed	,	A			ning Division		Township or			
Recorded Holder	HMPCIN	16 8 1	4ssayı	N6		HKDER	LK	NATA	Prospectors	الاندانية المالية الم	ρ
ENWAR!	d J.	CLARK							H. 50	0680	
Address	ue D	1,6561	244	5 TODOS)77 ()A	IT M	LU 31	.	resehuoue u	‰ 531-093	7./
Work Performed	By	WI PCK		ST., TORON	2 1	411	3		(416)	351-01	T.Y
J. A. (LARK Ass of Author (of Submissio	n)		C . []	711.			Date When	Work was Perfo	rmed
1		_		DURESS F	as ar	OVE			From: 22.7 03		08 90
All the work wa	s performed o	on Mining C	laim(s):	Mining Claim	No of Days A		No. of Days	Mining Claim		Mining Claim	No. of Days
indicate no. of a See Note No.	days performe 1 on reverse	ed on each side	-1-:	1134040 Mining Claim	14.43	1134042	15.63	1134044 Mining Claim	2.41	1134043 Mining Claim	Z 41
\	No of Days Mir	-	No. of Days	Mining Claim	No. of Days N	Aining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
//34039 Mining Claim	No. of Days Mir	ning Claim	No. of Days	Mining Claim	No. of Days A	lining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
	LL.			0.1.1.1.5		0 - 12			<u> </u>		
Instructions Total days cre				Calculation of E Total Expend	-	rys Creans	•	Total Days Credits	by this Re	nber of Mining Cla eport of Work	sims Covered
holder's choice claim in the				\$	578.	72 +	15 =	38.5		5	
(below). Mining Claims	(List in nu	merical se			ufficient, a	ttach sched	ules with r	equired info	rmation		
Mining Prefix	Claim Number	Expend. Days Cr.	Mi Prefix	ining Claim Number	Expend. Days Cr.	Mini Prefix	ing Claim Number	Expend. Days Cr		ining Claim Number	Expend. Days Cr.
Prenx	Number	Days Ci.	FIGUR	Humber	20,00	718112	Nomber	Dayson	FIGUR	Number	Days Of.
		-							- 		-
						 			 		
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						 			RECE	EIVED	
		ļ									
			·						MAY 1	6 1991	
										no eteri	011
								MINI	NG LAN	DS SECTION	Oik
Total Number of	Days Perform	ed		Total Number of D	ays Claimed			Total Number of	of Days to be	Claimed at a Ful	ture Date
	38.5				0				38	5	
Certification o	f Beneficial					and These		TAT	andad Wete	A B	
I hereby certify of work were rec by the current r	corded in the cu	rrent recorde	vas penorme d holder's nai	d, the claims cover me or held under a t	ed in this rep peneficial inter	001	2CH 7/		oraea Hoide	r or Agent (Signa	EtUP#}
Certification V			ork			1/////	ZEII 1 /			~ V V V	
I hereby certify to during and/or aft	hat I have a po	ersonal and i	ntimate know	viedge of the facts	set forth in the	ne Report of W	ork annexed	hereto, having p	performed the	work or witnesse	ed same
Name and Addre			mieven iaho					4	· · · · · · · · · · · · · · · · · · ·		
JENNIF	ER A	. CLA	RK	- ADDA	ess		4BOVE		<u> </u>		
-	•			Telephon	e No. \531- <i>0</i>	Date Of TU	anni.	7/9/	Contified By	(Signature)	10.
L	<u> </u>			11416	<u>۱-۰ د ر</u>		eived Stamp	1/1/	RECE	WED "	- TUK
For Office	Use Only	/			_			4	MINING I	r lake Division	
Total Days Cr. Recorded	Date Recorded		Mining	Recorder	ZM,			•	MAR 1	5 1991	
0	mas	ch15/	9/	TiCL	لعيين						
	Date Approved	as Hecorde	Proving	Manager, Mini	Caros	el		TIME	10 20		\Rightarrow
Barted	8.5 X des	24/9	post	7011 - 6	- 6,000			1186	10.59	am	7)
200.000	-	/ - /,	r) * F - 1								



Mining Act

DOCUMENT No. W9108. 00/19

(I.OEK)

Report of Work 2. 14/13
(Geophysical, Geological and Geochemical Surveys)

Instructions

· Please type or print

 Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

If number of mining claims traversed exceeds space on this form attach a list.

 Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch

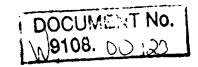
Type of Survey(s)				Mining Division		Township or			
Recorded Holder(s)				ARDER LA	KE	NAT	9L 7	ωP .	
Hecorded Holder(s)		•					_		
EDWARD.	CARK			MI	v 7	()	H.	5068	3 <u>0 </u>
Address # 705 - 345 Survey Company	N. Crip.	4! <=.	er T	7-21:175	~ > /\	01			
Survey Company	DUFFERI	<u>ر ۲۸</u>	<i>(EE 1</i> ,	IOKONIO	,	<u> </u>	(416)	3 51-	0974
JA CLADY									
J. A. CLARK Name and Address of Author (of	Geo-Technical Report)						Date of S	urvey (from	1 10)
TENNIFER I	A. CLARK-	AND	RESS	AS ABOVE	- 		5at 1	urvey (from	30 08 60
	ch Claim in Column	s at right	Mining C	Claims Traversed (List in	numerical s	equenc		
Special Provisions	C	Days per		Mining Claim		Mining Claim		М	lining Claim
For first survey:	Geophysical	Claim	Prefox	Number	Prefix	Numi	oer	Prefix	Number
Enter 40 days, (This includes	Electromagnetic		1 4	1134043					
line cutting)	Magnetometer								
For each additional survey: using the same grid:	- Other								
Enter 20 days (for each)	Geological	20							
•	Geochemical								
Man Days	Geophysical	Days per Claim							and the second s
Complete reverse side and enter (ctails) here	Electromagnetic	5.5							
Cities (Claries) Here	- Magnetometer				-			i	-
	- Other			 				i	
				1					
	Geological							 	
	Geochemical						⊃ E^	EIVE	:D
Airborne Credits		Days per Claim					TEU	L 1 V L	
Note: Special provisions credits do not	Electromagnetic						MAN	1 6 199	1
apply to Airborne	 Magnetometer								
Surveys	Other	-				MINI	NG L	ANDS S	SECTION
Total miles flown over cl	aim(s).								
•	corded Holder or Agent	(Signature)					number of	i	1
March 7/91	E) Clark						g claims c is report of	_	ı
Certification Verifying Rep					, 				
I hereby certify that I have a pe		edge of the fac	ts set forth in	this Report of Work, h	naving pe	erformed the wo	ork or with	essed same	during and/or
after is completion and annexe Name and Address of Person C									
JENNIFER A	CUPRK-	ANNRFS	S AS	ABOVE					
VENTURE II		Telepho	one No	<i>A</i> .	 در بر ^ا	7/91	Certified	By (Signatu	X. Ch.
)	O974 MAK Received	Stamp	1/11	<u> </u>	my	N Has
For Office Use Only				;		RECE LARDEI MINING D	PLAKE	: N	
Total Days Cr. Recorded	Mining	Recorder	مرزم	,		MAR 18	5 1001		
Date Approved	15/91	1	عنت	4			1771		
Date Approved	as Recorded Provinci	al Manager. Mi	ning Lands	` , '					



Ministry of No thern Development hes

Ledds 4 1 Man 29/91

Report of Work



APR. 19

Instructions

· Please type or print.

Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.

Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Reports.

TIME 10.28

	Mining	ACI	(Expen	ditures,	Subsection 7	7(19))		ano t	anus branch.			
Type of W	ork Performe ASSAY	00, 111,00	-rack	< sa	mples		ning Division		Township or		_	
Recorded	Holder E	77	Clar	K	mples						Licence No.	
Address #	705	- 31	is D	ou ffe	rin S	+ Ta	first	0 ME	5K36I	Telephone !	531-09	74
Work Peri	ormed By		ĔĴ	Clai	, K	2	/	411	3	مبر عات سم ^ر	7	
Name and	Address of	Author (of Submission							Date When	Work was Perfor	med
			= 1	Clar	K			25	17/90	Day F-40	90 2	10.90
All the wo Indicate r *See Not	ork was per no. of days p e No. 1 on	ormed operforme	on Mining Cl ed on each o side	aim(s): :laim.	Mining Claim 1134045	No. of Days N	lining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of	Days Mir	ning Claim	No. of Days	Mining Claim	No. of Days N	lining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of	Days Mir	ning Claim	No. of Days	Mining Claim	No. of Days N	lining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
holder's claim in (below).	ays credits choice. Ent the expe	ler numl nditure	distributed ber of days o days credi	redits per t column		C. SC	÷	15 =	Total Days Credits 25-4	by this Re	nber of Mining Cla eport of Work	ims Covered
		t in nu	7		If space is ins	Expend.	T	ledules With r Mining Claim			ining Claim	1
Prefix	Aining Claim Numb	ber	Expend. Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Expend Days Co		ining Claim Number	Expend. Days Cr.
						_				1		
												
										REC	EIVED	
										MAY	6 1991	
									L A I I		NDS SECT	1010
Total Num	nber of Days		5.4		Total Number of D	Days Claimed	\supset		Total Nurhibet	25.4	Clarinad at a Futi	ire Date
Certificat	ion of Be	neficial	Interest *	See Note	No. 2 on reve	erse side						
I hereby of work w	certify that, a	it the tim	e the work w	as performe	d, the claims cove ne or held under a t	red in this rep	ort Date est	Feb 27	/91 Rec		r or Agent (Signa	tùre)
Certificat	lion Verify	ing Re	port of Wo	rk								
I hereby o during and	ertify that I t d/or after its	nave a pe completi	ersonal and ir on and the ar	ntimate know nnexed repo	rledge of the facts	set forth in th	ne Report of	f Work annexed	hereto, having (performed the	work or witnesse	d same
Name and	d Address of	Person (Certifying	Ed	Clark	((su	above)			
,					Telephon	e No.	į (Date		Certified By	Clark.	
For Of	fice Use						F	Received Stamp	LAR	CEIVEL DER LAK IG DIVISI	Œ	
Total Day	ded		ch 14/9.		Recorder C	for				19 19		
	Date A	pproved	as Recorded	Provid	Manager, Mini	ng Lands	1	,	·			





Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File		

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) <u>GEOPHYSICS</u>	
Township or Area NATAL TWP.	
The same of Carloss T. C. and	MINING CLAIMS TRAVERSED
Claim Holder(s) EDWARD J. CLARK MICHAEL J. PERKINS TERONTO, ONT. Survey Company J. A. CLARK MGG 358	List numerically
TO CLOSE MGG 358	1 112/10/14
ou. 10) oo pa.)	1. 1/34044 (number)
Author of Report TENNIFER A. CLARK	(number)
Address of Author #705-345 DNGFERIN ST. TORON 70	1134043 0
Covering Dates of Survey 25-07-90 to 04-10-90 (linecutting to office)	
Total Miles of Line Gut 14.0 km.	//3 <i>3</i> 932
	1134041
SPECIAL PROVISIONS DAYS	1134039~
CREDITS REQUESTED Geophysical per claim	
-Electromagnetic 40	
ENTER 40 days (includes	
line cutting) for first survey. -Magnetometer -Radiometric	
ENTER 20 days for each —Other	
additional survey using Geological	
same grid. Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
MagnetometerElectromagneticRadiometric	
(enter days per claim)	
DATE: March 7/91 SIGNATURE: June M. Clark	······
Res. Geol. Qualifications 2.14113	RECEIVED
	MAY 0.0 doo.
Previous Surveys File No. Type Date Claim Holder	
The No. 1ype Bate Glaim Holder	MINING LANDS SECTION
	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations		Number of Readings
Station interval		Line spacing
P	Profile scale	
C	Contour interval	
MAGNETIC	Instrument	
	Accuracy - Scale constant	
	Diurnal correction method	
	Base Station check-in interval (hours)	
	Base Station location and value	
ELECTROMAGNETIC	Instrument <u>CRONE GEOPHYSICS</u> Coil configuration	RADEM RECEIVER COLOGR
	Coil separation	
	Accuracy ± 1/20	
	Method: Fixed transmitter	☐ Shoot back ☐ In line ☐ Parallel line
	Frequency 24.0 KHz - Cuties	R, MAINE & 12154 KHOZANNAPPLYS, M
	Parameters measured Dip	(specify V.L.F. station)
GRAVITY	Instrument	
	Scale constant	
	1	
RESISTIVITY	Instrument	
	Method Time Domain	☐ Frequency Domain
	Parameters – On time	Frequency
	_ Off time	Range
	– Delay time	
	— Integration time	
	Power	
	Electrode array	
	Electrode spacing	
	Type of electrode	

INDUCED POLARIZATION

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type, de	pth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING E	TC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
AIRBORNE ŞURVEYS	
Type of survey(s)	
Instrument(s)(specify)	for each type of survey)
Accuracy(specify	
Aircraft used	for each type of survey)
Sensor altitude	
Aircraft altitude	Line Spacing
	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken					
Total Number of Samples	ANALI HUAL METHUDS				
Type of Sample(Nature of Material)					
Average Sample Weight Method of Collection	p. p. b. □				
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)				
Soil Horizon Sampled					
Horizon Development					
Sample Depth					
Terrain	,				
Dusing a Davidson and	Reagents Used Field Laboratory Analysis				
Drainage Development Estimated Range of Overburden Thickness					
Estimated Range of Overburden Thickness	Extraction Method				
	Analytical Method				
	Reagents Used				
SAMPLE PREPARATION	Commercial Laboratory (tests)				
(Includes drying, screening, crushing, ashing)	Name of Laboratory				
Mesh size of fraction used for analysis	Extraction Method				
	Analytical Method				
	Reagents Used				
General	General				
Octicial					
	· ·				





Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File	
1 110	

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGY	
Township or Area NATAL TWP.	
Claim Holder(s) EDWARD J. CLARK	MINING CLAIMS TRAVERSED
	List numerically
#705-345 DUCTERIN ST. TORONTO, ONT MEK361 Survey Company J. A. CLARK	1 1171/1/6
Author of Report JENNIFER A. CLARK	<u> </u>
	1.113404\$2
Address of Author #205-345 DUFFERIN ST. TORON TO	·
Covering Dates of Survey 27-07-91 to 30-08-91	***************************************
Total Miles of Line Cut 4.8 km	
SPECIAL PROVISIONS DAYS	
CREDITS REQUESTED Geophysical per claim	,
Electromagnetic	
ENTER 40 days (includes line cutting) for first	
survey. —Radiometric	
ENTER 20 days for each —Other	
additional survey using Geological 40	
same grid. Geochemical	
	······
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer Podiometric Rediometric	
MagnetometerElectromagneticRadiometric (enter days per claim)	
DATE: March 7/9/ SIGNATURE: Junty A. Clark	
DATE: March 1/9/ SIGNATURE: Junty A. Chark Author of Report of Agent	
Res. GeolQualifications	•
Previous Surveys	RECEIVED
File No. Type Date Claim Holder	TILOLIVLD
	MAY 1 0 1991
	MINING-LANDS-SEGTION
	TOTAL CLAIMS 2
	TOTAL CLAIMS Z

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	umber of Stations	Number o	f Readings	
Station interval		Line spaci	ng	
Pı	rofile scale			
C	ontour interval			
2	Instrument			***
MAGNETIC	Accuracy – Scale constant			
g	Diurnal correction method			
X	Base Station check-in interval (hours)			
	Base Station location and value	***************************************		
r al	Instrument			
Ĭ	Coil configuration			
Z	Coil separation			
MA	Accuracy			
ELECTROMAGNETIC	Method:	☐ Shoot back	☐ In line	☐ Parallel line
EG	Frequency	(specify V.L.F. station)		
E	Parameters measured			
	ratameters measured			
	Instrument			
	Scale constant			
IX	Corrections made			
AVITY				
S	Base station value and location			
	Elevation accuracy			
	•			
	Instrument			
	Method	□ Fı	equency Domain	
	Parameters – On time	F1	equency	
>4	- Off time	R	ange	
Z	Delay time			
H	- Integration time			
RESISTIVITY	Power			
R	Electrode array			
	Electrode spacing			
	Type of electrode			

INDUCED POLARIZATION

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
	(type, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LO	GGING ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	

Additional information (for understandi	ng results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
. ,	(specify for each type of survey)
Accuracy	(specify for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery met	hod
	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken			
Total Number of Samples	ANALI HUA	L METHODS	<u> </u>
Type of Sample(Nature of Material) Average Sample Weight		per cent p. p. m. p. p. b.	
Method of Collection	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)
Soil Horizon Sampled	Others		
Horizon Development	Field Analysis (tests)
Sample Depth			•
Terrain		******************************	
	D		
Drainage Development			
Estimated Range of Overburden Thickness			tests ¹
Diffinated Range of Overburden Timekness	Extraction Method		•
	Amalastical Masks 4		
	Reagents Used		
	Reagents Osed		
SAMPLE PREPARATION	Commercial Laboratory (_		tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory		•
Mesh size of fraction used for analysis	Extraction Method		
	Analytical Method		
	Reagents Used		
	Keagents Osed		<u></u>
General	General ————		
			· · · · · · · · · · · · · · · · · · ·
	<u> </u>		





Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File			

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOG	· y	_
Township or Area NATAL		MANANC CY A DAG TO A SUDDONO
Claim Holder(s) EDWARD	_	MINING CLAIMS TRAVERSED List numerically
MICHAEL	J. PERKINS	_
Survey Company J.A. Cur.		_ <i>L.113404</i> 3
Author of Report JENNIFE	R A. CLARK	(prefix) (number) - //33932
Address of Author #705-345	DUCFERIN ST. TORONTO	
Covering Dates of Survey 27.0	7-90 to 30-08-90	
Total Miles of Line Cut	(unecutting to ottice)	
Total Wiles of Line Out		
SPECIAL PROVISIONS	DAYS	
CREDITS REQUESTED	Geophysical per claim	
	-Electromagnetic	
ENTER 40 days (includes line cutting) for first	-Magnetometer	
survey.	-Radiometric	
ENTER 20 days for each	_Other	
additional survey using	Geological 20	
same grid.	Geochemical	
AIRBORNE CREDITS (Special pro	rision credits do not apply to airborne surveys)	
MagnetometerElectroma		_
•	days per claim)	
DATE: March 7/91 SIGN	ATURE: Knilly A. Clas Author of Report or Agent	January Commencer of the Commencer of th
	Adding of Report of Agent	
Res. GeolQual	ifications	- RECEIVED
Previous Surveys		TILOLIVLD
File No. Type Date	Claim Holder	MAY 0.9.1991
		MINING LANDS SECTION
		TOTAL CLAIMS 2
1 1	1	

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

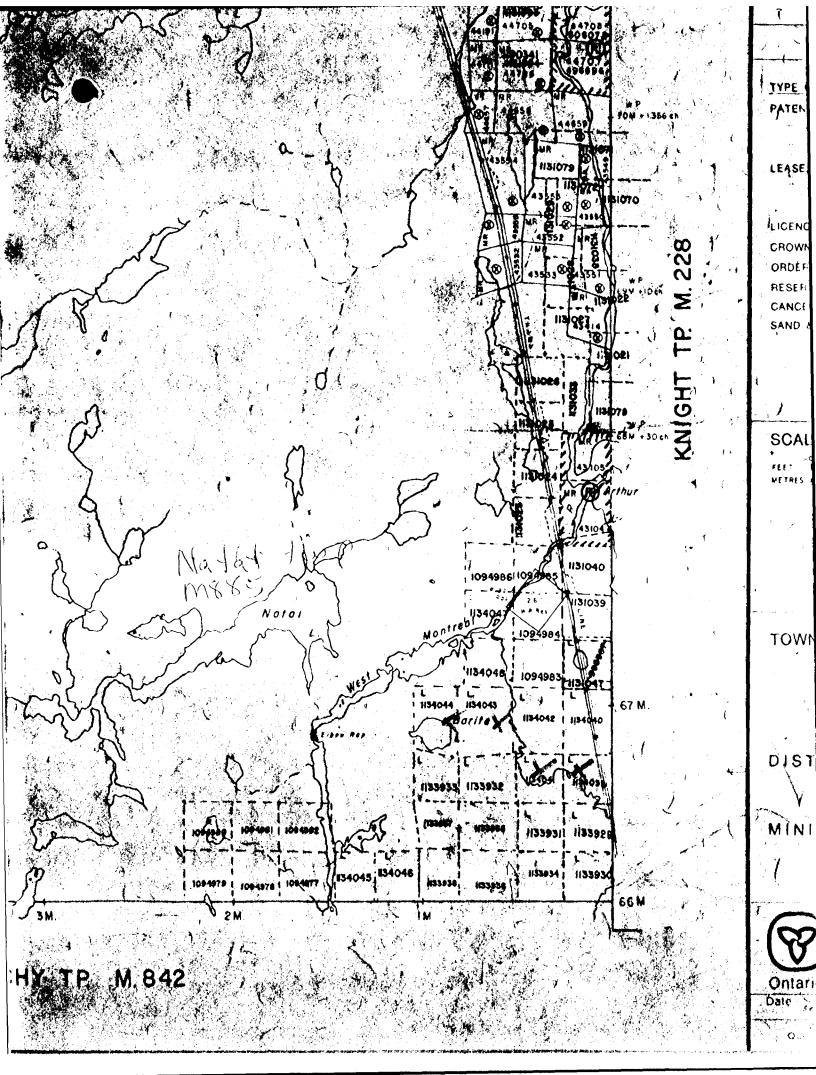
Νu	umber of Stations	Number of Readings
Station interval		Line spacing
Pre	ofile scale	
Co	ontour interval	
	Instrument	
2		
<u> </u>	·	
S		
_	, ,	
	Base Station location and value	
r 3l	Instrument	
-		
	Coil separation	
MA	Accuracy	
S S	Method:	
ဌ	Frequency	
113		
	Parameters measured	
	Instrument	
	Scale constant	
AVITY	Corrections made	
≸		
KI KI	Base station value and location	
	Elevation accuracy	
	Elevation accuracy	
	Instrument	
	Method Time Domain	☐ Frequency Domain
	Parameters – On time	• •
	- •	Range
	- Delay time	
IIV	- Integration time	
RESISTIVITY	•	
R.		
•		
•		

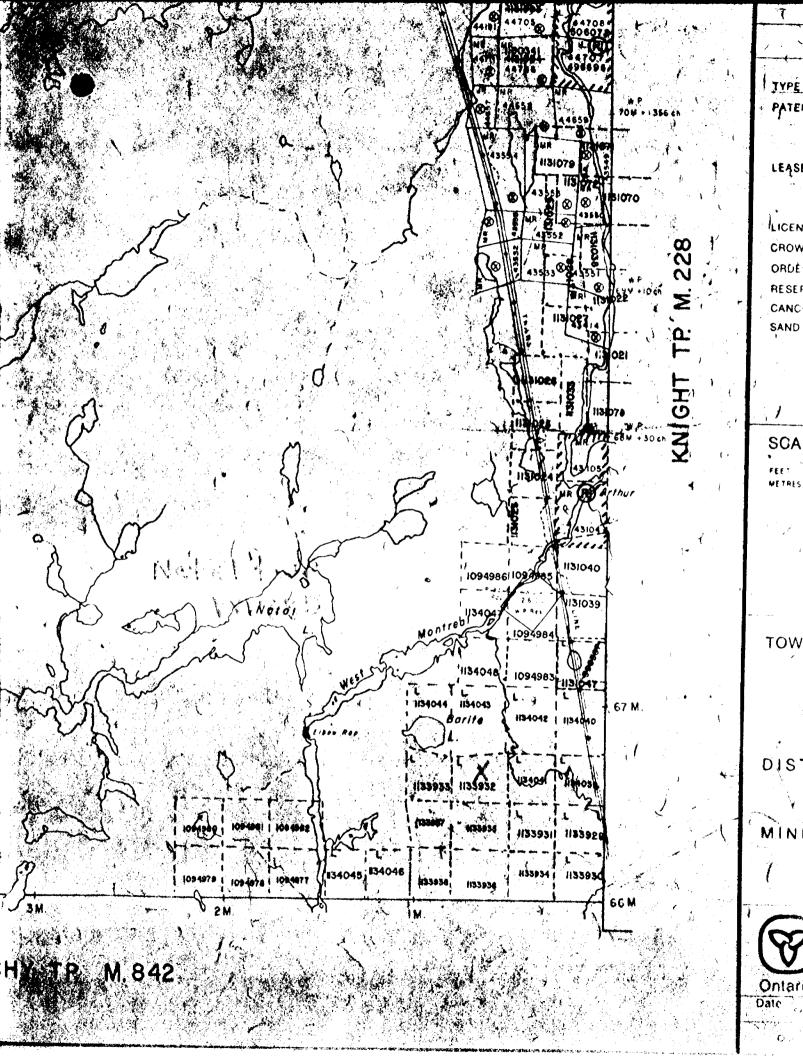
INDUCED POLARIZATION

SELF POTENTIAL	
	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type, c	lepth – include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING	ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding result	s)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)(specific	y for each type of survey)
Accuracy(specif	
Aircraft used(specif	
Sensor altitude	
svavigation and tright path recovery method	
Aircraft altitude	Line Spacing
	Over claims only
· · · · · · · · · · · · · · · · · · ·	V 1 V V V V V V V V V V V V V V V V V V

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken	
Total Number of Samples	
Type of Sample(Nature of Material) Average Sample Weight	p, p, m, □ p, p, b, □
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests
•	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	General
General	
	

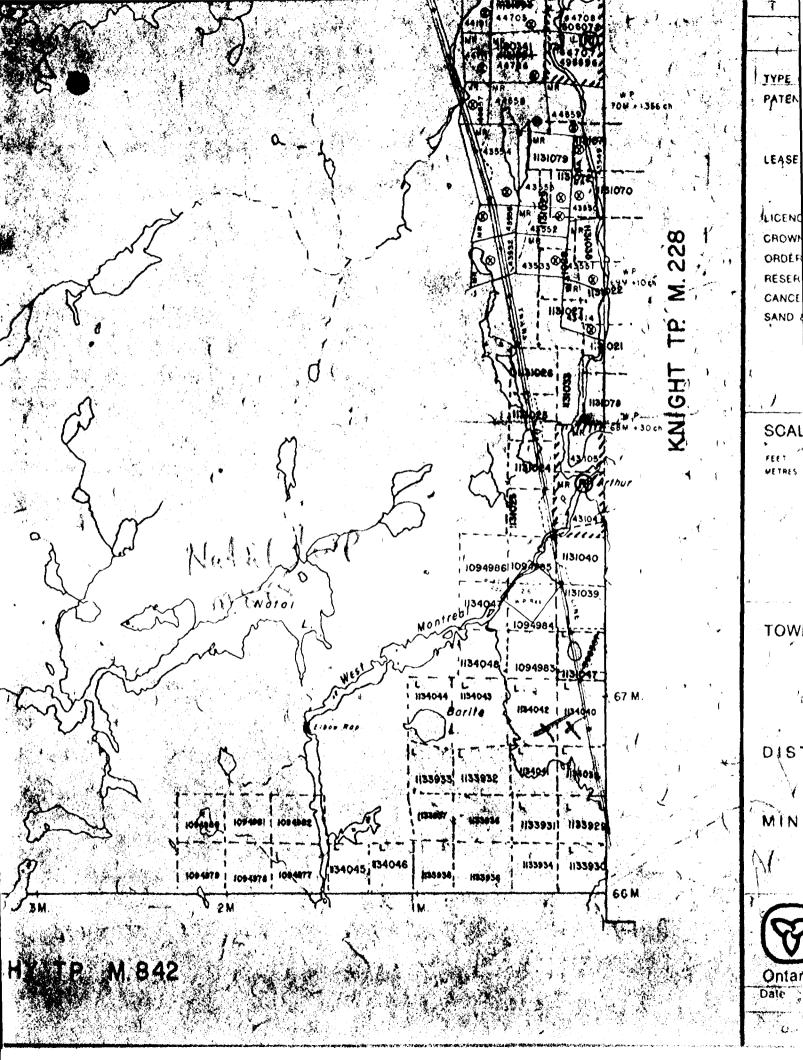




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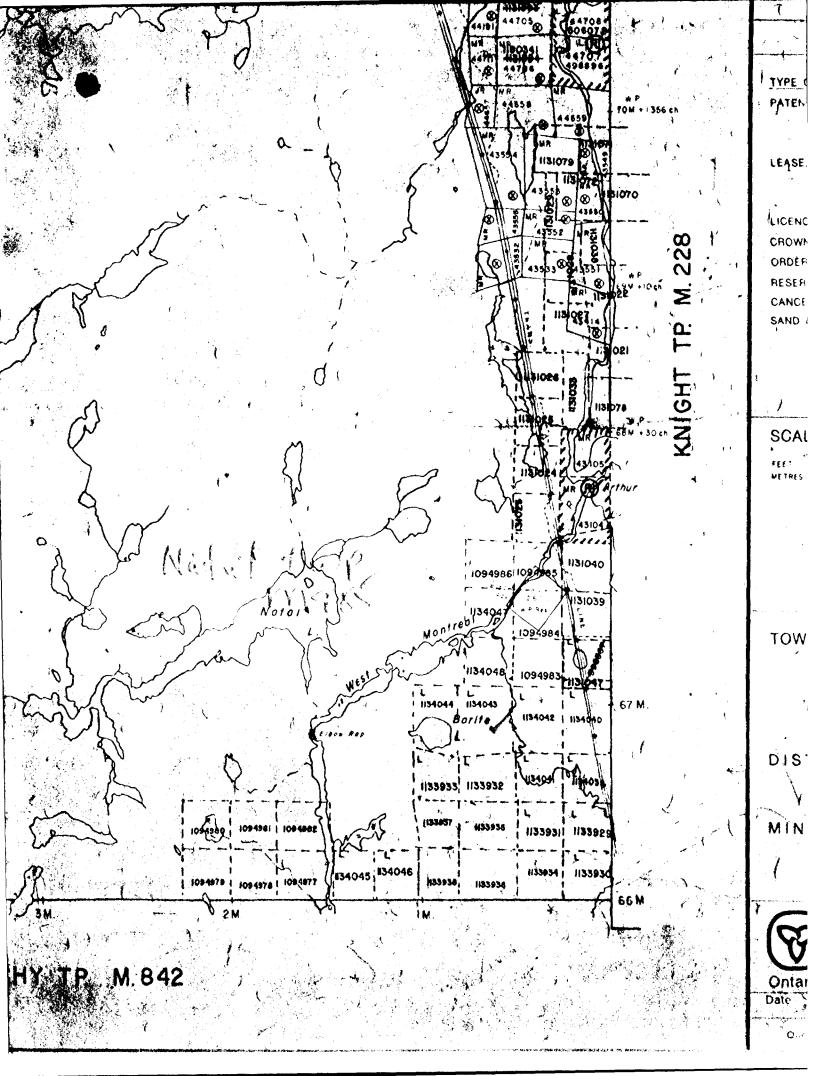


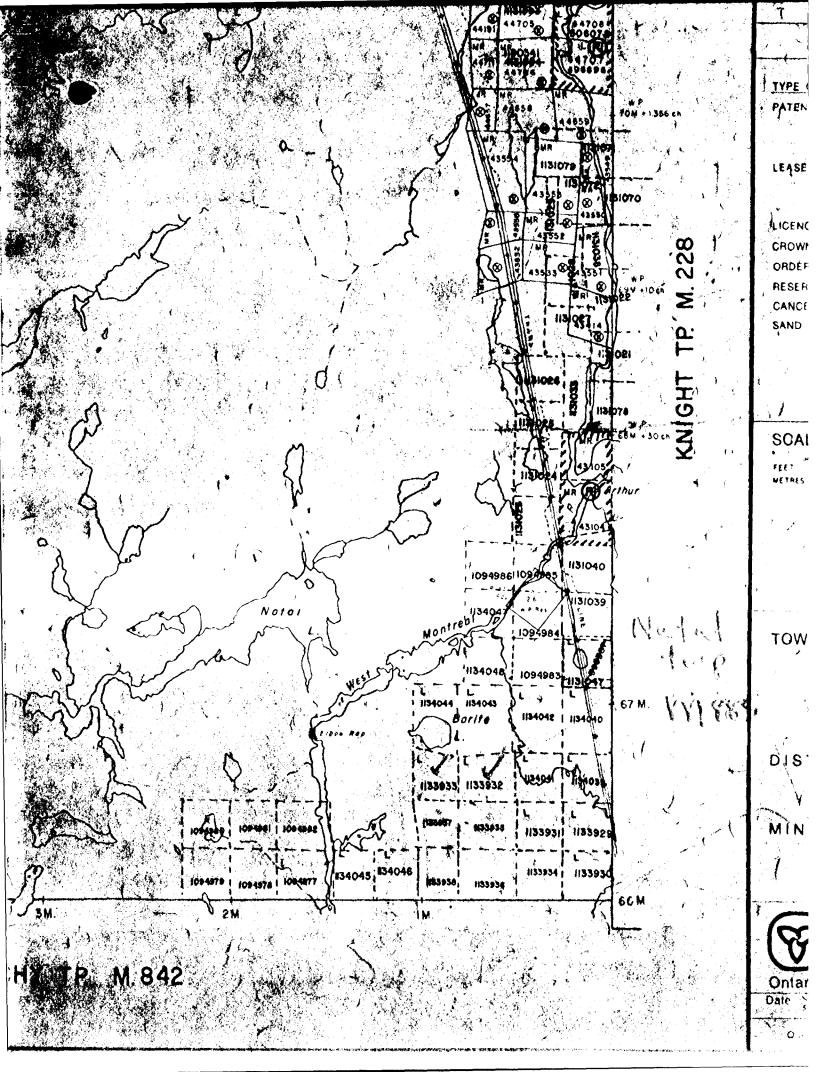
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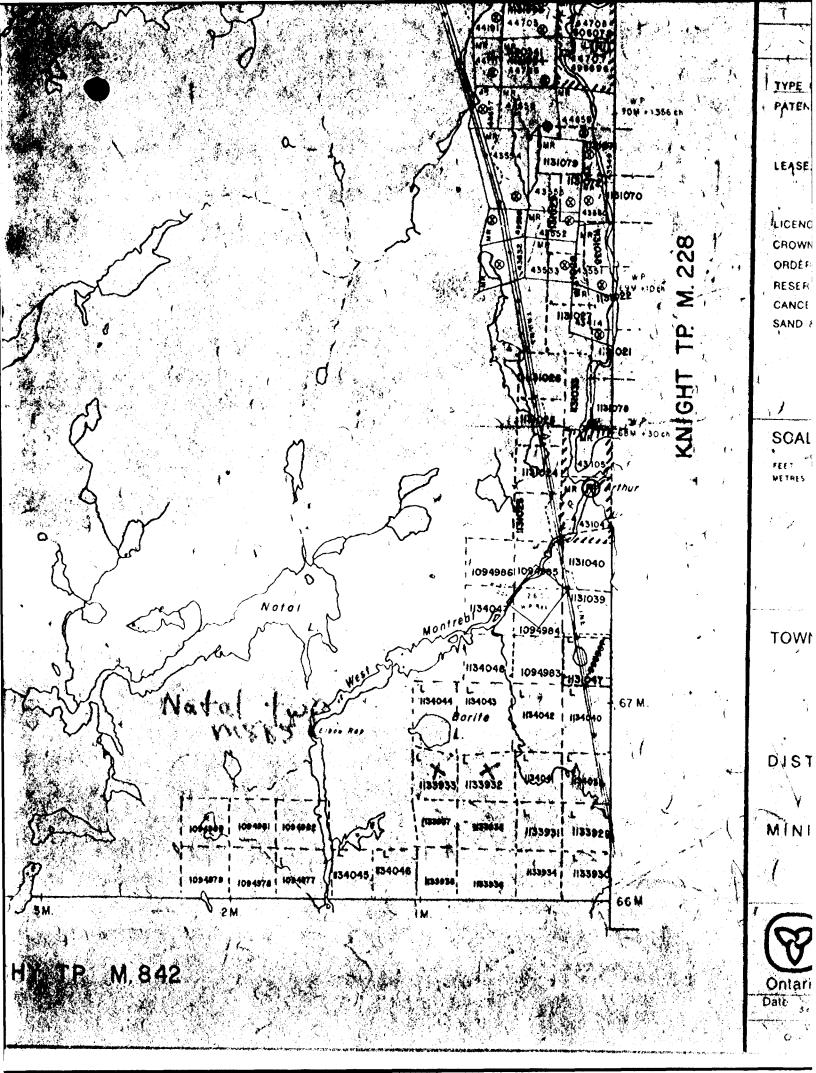
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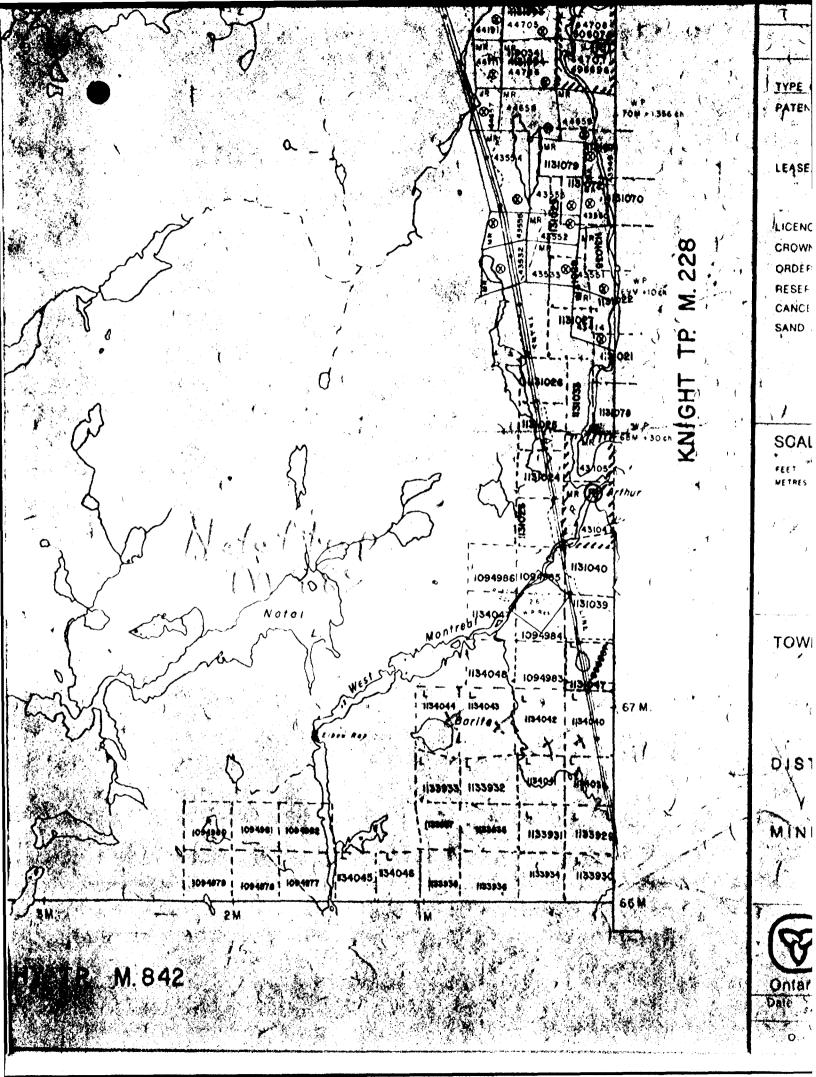
CROW ORDER RESER CANCE

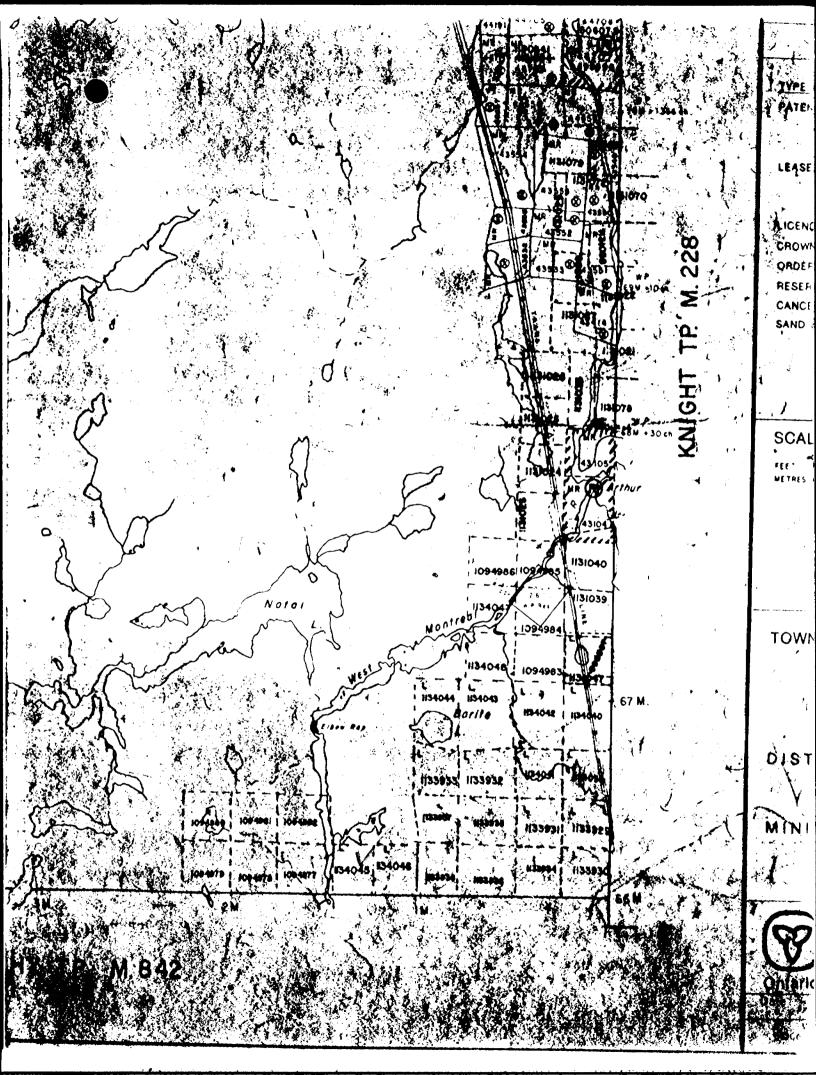
SCA











UNIVERSITY OF TORONTO

Department of Geology-Toronto-Canada-MSS 3B1
Earth Sciences Centre, 22 Russell Street,
Tel: (416)978-3022
Fax: (416)978-3938

FAX COMMUNICATIONS COVER PAGE

DATE:	May 17/91	•
то.	Lucille	R.A. Mary and Address of the State of the St
FAX NO:	705-670-7262	
FROM:	Jennifer Clark	ay vy
NO. OF PAGES:	(Incl. this page)	•

Message 1

Please deliver to Lucille in Lands Branch.

Lucille- Please case 978-4272 (416) and confirm that this is the correct info requested.

Re: Assessment Terinical Rpt. deficiency - Natal Twp.

GEOCHEMICAL SURVEY - PROCEDURE RECORD

CARREST SALA

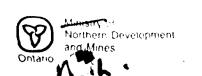
Numbers of claims from which samples taken	34045 NATAL TWP
Total Number of Samples	ANALYTICAL METHODS
Type of Sample Rock (Nature of Material) Average Sample Weight /Ko	Values expressed in: per cent p. p. m. p. p. p. b.
Method of Collection GRAB	Cu Pb, Zn, Ni) Co, Ag Mo, As, (circle)
Soil Horizon Sampled <u>N/A</u> Horizon Development <u>N/A</u>	_ Field Analysis (tests)
Sample Depth. Om Terrain Outcop	
Drainage Development. <u>good</u> Estimated Range of Overburden Thickness	Field Laboratory Analysis No. (tests) Extraction Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis ± 100 mesh	The same of the state of the st
General	These expenditure credits are to be "banked" as per Report & Work descripting expenditures.
	Park/per HClark

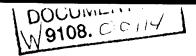


Please allock this to the Report that you recently recieved garnifor Clork Hom office, on maj & this was E) Clock 416. 531. 0974.

RECEIVED
3/62
MAY 1 0 1991

MINING LANDS SECTION





(VORK)

Please type or port

Refer to Section 77, the Mining Act for assessment work requirements

and maximum credits allowed per survey type

ntario N , L	Report of Wor	k 2.1	14113	3		n credits allowed pe mining claims travel		space on this	s form.
Mining Act	(Geophysical, Geo		_			ports and maps in Section Mineral D			
'ype of Survey(s)			, N	lining Division	Tow	nship or Area			
GEOPHYSICS Recorded Holderist			; •	LARDER	KK. I	WATAL Prospector	Twp. s Licence No		
MICHAEL C	7. PERKIN	US		220	66 .37	A. 4	9379 No		
Address 514 CRAWFO Survey Company		T, To	RUNIT	O, DNTA	1210	53	4-694	0 (41	(e)
Name and Address of Author (o	Geo-Technical Report)				M6K-	361 Date of \$1 NT. 25	urvey (from &	to)	
TENNIFER Coredits Requested per Ea	ARK. #705-	345 Du	FFERIN	St. TORO	NTO, O	25 No. 17. 17. 17. 18. 19. 19.	1 40 0	4 18	90
redits Requested per Ea	ch Claim in Column	s at right	Mining C	laims Traversed	(List in num	nerical sequence	2)		
Special Provisions		Days per	<u> </u>	Mining Claim	Mini	ing Claim	Mini	ng Claim	
for first survey:	Geophysical	Claim	Prefix	Number	Prefix	Number	Prefix :	Number	
Enter 40 days. (This includes	- Electromagnetic	40	1 2.	1133932	12/				
line cutting)	- Magnetometer			//33933					
For each additional survey: using the same grid	- Other						:		
Enter 20 days (for each)	Geological			 					
•	Geochemical								
Man Days	Geophysical	Days per Claim					•		
Complete reverse side and enter total(s) here	Electroniagnetic			•					
	- Magnetometer								
	: - Other			•					
	Geological	,			. :		· · ·		
	Geochemical								
Airborne Credits		Days per Claim				REC	EIVE)	
Note: Special provisions credits do not	Electromagnetic					- BRAV 1	0.1001		
apply to Airborne Surveys						MAY 1	6 1991		
	Other			•		MINING LA	NDS-SE(CTION_	
Total miles flown over cl						T-1-1			
Date Re 11 larch 7/91	corded Holder or Agent	(Signature)				Total number of mining claims or by this report of	overed	2	
ertification Verifying Rep	ort of Work				_	,			
hereby certify that I have a be	rsonal and intimate knowle	edge of the fact	is set forth in	this Record of Work	ha, ng perform	ed the work or with	P\$\$80 \$00 + 0.	urng and cr	

Name and Address of Person Certifying

JENNIFER A. CLARK. ADDRESS AS ABOVE

March 7
Received Stamp

Certified By (Signature)

For Office Use Only

Date Recorded

Mining Recorder Manch 15/9/ Date Approved as Recorded Provincial Manager Mining Lands

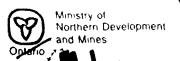
RECEIVED LARDER LAKE MINING DIVISION

MAR 15 1991

TIME 10.59 and

Total Days Cr. Recorded

1362 (89/06)





Report of Work

2.14113

Mining Act

1362 (89/06)

(Geophysical, Geological and Geochemical Surveys)

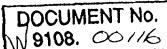
Instructions

- Please type or print
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)			4	ining Divisio			ownship or Area	7.0	,
GEOLOGICAL Recorded Holder(s)				ARBEI	R LA	KE	NA TAL Prospector	r's Licence N	· O
M. J. PERKIN	J\$, ,				_ *		A. Telephone	49379	7
SIH CRAWFO Survey Company		TORON	170,	DNT.	Me	56 3			(416)
Name and Address of Author (of	Geo-Technical Report)				M	6K 3	₹61 Date of S	urvey (from	& to)
JENNIFER F	7. CLARK -	705.345	DUFF	ERIN		IORUM	77		30 08 90 Day Mo Y
Credits Requested per Ea	ch Claim in Column	s at right M	lining Cl	aims Tra	versed (List in nu	umerical sequenc	e)	
Special Provisions		Days per	М	ining Claim		N	Aining Claim	Mir	ning Claim
For first survey	Geophysical	Claim	Prefix	Numt		Prefix	Number	Prefix	Number
Enter 40 days (This includes	- Electromagnetic	ļ ļ	<i>L</i>	//33°	9324				
line cutting)	- Magnetometer	<u> </u>							
For each additional survey: using the same grid:	- Other								
Enter 20 days (for each)	Geological	, 20		arra on					wang in managan panangan
	Geochemical								
Man Days	Geophysical	Days per Claim							
Complete reverse side and enter total(s) here	- Electromagnetic								_, ,
-	· Magnetometer		!						
	- Other						i Į		
	Geologicai								;
	Geochemical		1						
Airborne Credits		Days per Claim		*			RE	CEIV	FD
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apply to Airborne Surveys:	Magnetometer						MAY	1 6 199) 1
	Other		4				! 	ANIDO	`~~~
Total miles flown over cl	aim(s).						MINING L	r	SECTION
	corded Holder or Agent	(Signature)				i	Total number o mining claims o	. }	1
MARCH 7/9/ (Certification Verifying Rep	Ennifer X.	Garl				j	by this report o	fwork L	
I hereby certify that I have a pe	rsonal and intimate knowli	edge of the facts s	et forth in	tras Report	of Wark, t	iaving perfo	frmed the work or with	essed same	during and/or
after its completion and annexed Name and Address of Person C							and the second of the second o		
JENNIFER I		ANDRE	C A	< A1	BAVE	-			
DEMONTER.	T. Connex	ADDRE Telephone (416)	No.	~0 O/	Date	1	Confilled	By (Signatur	°) (1
		(416)	221.	07 74	Received	Stamp	91 Ju	ni ju	J. Claro
For Office Use Only						F	RECEIVED ARDER LAKE NING DIVISION	U	
Total Days Date Recorded	Mining F	Recorder Cit	<u></u>			(A1(1)	THE PRICES		
Cr. Recorded		2				M	IAR 15 1991		
Date Approved	as Recorded Province	al Manager, Mining	Lands	+ -					
20		•	-		-	TIME	10.59 ans	5	



Mining Act



(Geophysical, Geological and Geochemical Surveys)

Report of Work

Instructions

(NOFK)

· Please type or print

- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type

- If number of mining claims traversed exceeds space on this form, attach a list.

- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s)	Mining Division Township or Area									
GEOPHYSIC. Recorded Holder(s)		LARDER A	(K)	MA	Prospecto	r's Licence	P			
E DWARD	J. CLARK	a - Companies de la companie de la c		m		z 61	A. 3	068	0	
# 705 - 345 Survey Company	DUFFERIN	STR	CEET,	TORONTO,	Dus	ARIO	(416)	53/	.0974	/
J.A. CLARI	.	and the second s								
Name and Address of Author (o JENNIFER CU		RESS	SAME	AS ABOV	Æ		Date of S	urvey (fron	04 10)	90
Credits Requested per Ea	ch Claim in Column	s at right	Mining	Claims Traversed	(List in	numerical	sequenc	e)		
Special Provisions		Days per		Mining Claim	1	Mining Clar	m	j	Vining Claim	
For first survey:	Geophysical	Claim	Prefix	Number	Prefix	Nu	mber	Prefix	Numb	er
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line cutting)	- Magnetometer		1	1134041	1.					
For each additional survey: using the same grid:	- Other		1	1134043					ļ 	
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	Geochemical									
Man Days	Geophysical	Days per Claim								
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	- Magnetometer					4 .				
	- Other			1			<u>.</u> .		<u>.</u>	
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Airborne Credits		Days per Claim					HE(CEIV	ED	
Note: Special provisions credits do not	Electromagnetic						\$8.837	1 0 40		
apply to Airborne Surveys.	Magnetometer						WAY	1 6 19	91	
	Other			1		MIM	NING L	ANDS	SECTION	J
Total miles flown over cl	aim(s).									•
March 7/91	Corded Holder or Agent	(Signature)				U III U	al number o iing claims c this report o	overed	4	
Certification Verifying Rep	**************************************									
I hereby certify that I have a pe after its completion and annexe	d report is true	edge of the fa	icts set forth	in this Report of Work.	having per	rlormed the	work or with	essed sam	e during and/	or
Name and Address of Person C			A .	0.0. (=)						
JENNIFER C	LARK (AD	DRESS Teleph	AS none No	ABOVE)			Certified	By (Signat	ure) ,	0
	D. Makeyanin daya salaya salah didakan yangangaya ini dahiri didamaya sayay 2-150-a dakas	(416	531-0	2974 Ma	ich	7/9/	Jen	nifes	A.G	ark

For Office Use Only

LARDER LAKE MINING DIVISION Mining Recorder

MAR 15 1991

160

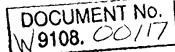
Total Days Cr. Recorded

Date Recorded

Provincial Manager, Mining Lands

1362 (89/06)





(TIORN) structions

- Please type or print

Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

· If number of mining claims traversed exceeds space on this form,

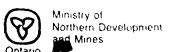
attach a list

Ministry of Northern Development and Mines	W9108.	117
M.L	M of Words 2	14

Report of Work

 Technical Reports and maps in duplicate should be submitted to Mining Lands Section. Mineral Development and Lands Branch: Mining Act (Geophysical, Geological and Geochemical Surveys)

Type of Survey(s)			l l	g Division	1	Township or				
Recorded Holder(s)		and the second second second	LA	RDER L	K	NATA	Prospector	Twp.	No	
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# 705 - 345) Survey Company	DUFFERIN S	TREET,	TORONI	O, ONT.	M6K	361	(416).	531-0	974	
J.A. CLARK Name and Address of Author (of	Geo-Technical Report)	and the second of the second of the second			and the second of the second o		Date of S	urvey (fror	n & to)	
JENNIFER CLA	ORK - 1700RE	SS AS	ABOVE					7,90	30 08 Bay 008	ζρ]
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Special Provisions For first survey.	Geophysical	Days per Claim	Minir Prefix	ng Claim Number	Prefix	Mining Claim Num		Prefix	Mining Claim Numbe	r
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Enter 40 days (This includes line cutting)	- Magnetometer		(134042						
For each additional survey: using the same grid:	- Other									
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Man Days	Geophysical	Days per Claim						North Control		
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	Geochemical					1				
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Surveys.	Other						NO 1 8	NDO C	FOTION	
Total miles flown over cli	aim/s)					·MINI	NG L/	INUS S	SECTION	
	corded Holder or Agent (Signature)	·· - ··	en granden en e	}		number of		2	
March 7/91 8	J Clah				}		ig claims c is report of			
Certification Verifying Rep		dge of the fact	Is set forth in this	Report of Work +	navino neri	formed the w	ork or with	essed same	e durino and/o	ſ
after its completion and annexed	d report is true									
Name and Address of Person C		5 - A	- 1045							
JENNIFER CLA	IKK - HOORA	ESS H Telepho	S ABOVE	Date			Certified	By (Signat	ure) ,	^
			531-09	1 -7	wih	7/91)es	impe	A.Cl	ash
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6 .	a lekil	· (()	+:(MAR 1	5 1991		
Date Approved	as Recorded Provincia	il Manager, Mir	ning Lands			•				
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DOCUMENT No. W9108. 00/19

(I.ORK)

Instructions

- Please type or print

TIME 10.59 am

- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form.

Ontario	Ministry of Northern Developm and Mines	ient
M.1	Mining Act	F (t

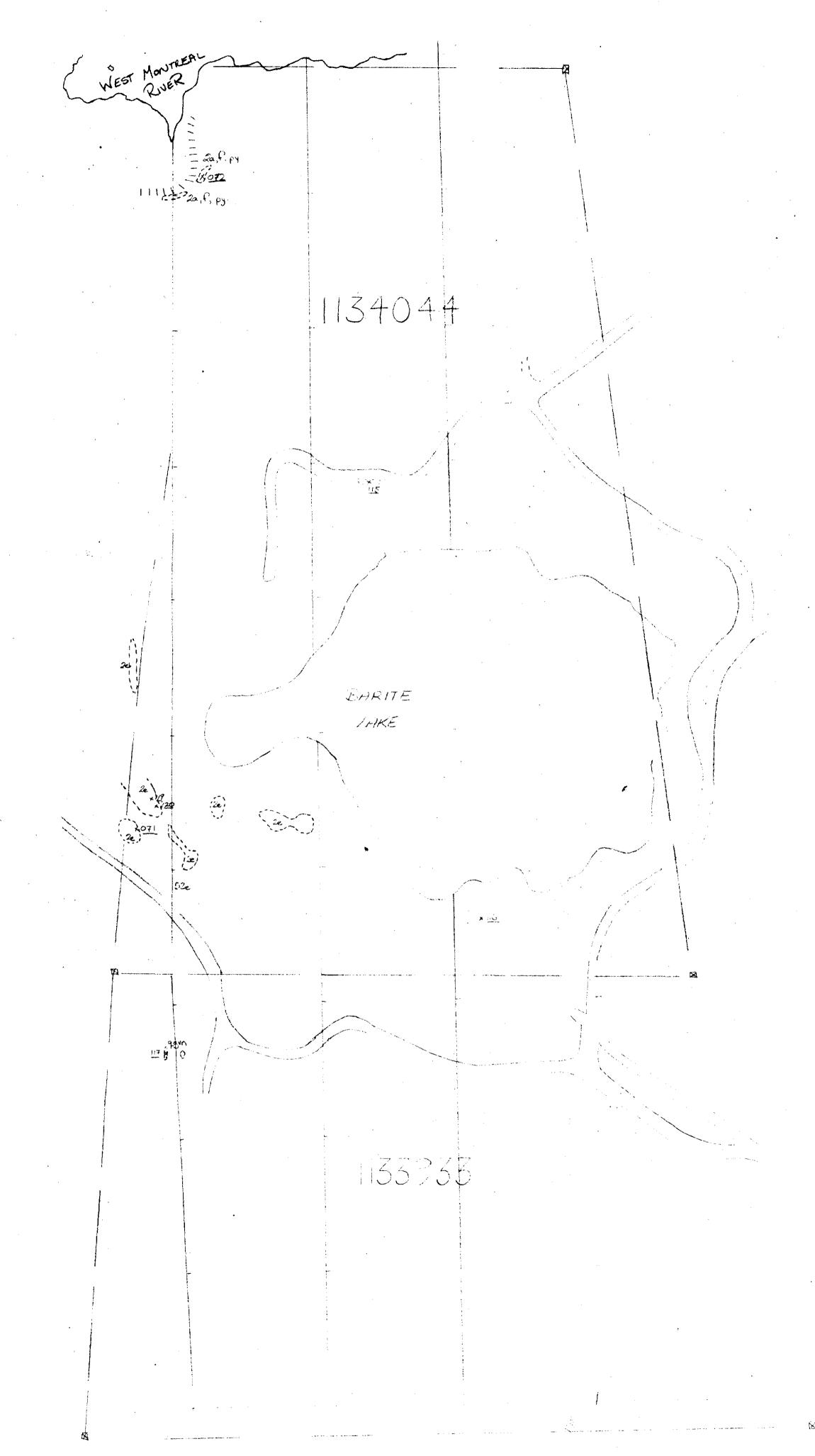
Report of Work

Date Approved as Recorded Provincial Manager. Mining Lands

(Geophysical, Geological and Geochemical Surveys)

Technical Reports and maps in duplicate should be submitted to Mining Lands Section. Mineral Development and Lands Branch

Type of Survey(s)			i	lining Division	ļ	Township or Area	·		Ì
GEOLOGICAL Recorded Holder(s)				ARDER U	9KE	NATAL T	WP.		
EDWARD J				M6	K 36	A. Telephone	5,068		
# 705 - 345 Survey Company		N STR	EE.T,	TORONTO	o, Or	7. (416)	531-0	,	
J. A. CLARK Name and Address of Author (of	Geo-Technical Report)					Date of S	urvey (from	1 (o)	90
JENNIFER I Credits Requested per Ea	4. CARK -	ADD R	Mining C	45 A130VE	(List in n	Sumerical sequence	(, 7, 30) · e)	20 08 Bay Mo	to
Special Provisions	1			Aining Claim	1	Mining Claim		ning Claim	
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Total miles flown over cl Date Re March 7/91	aim(s). Corded Holder or Agent	(Signature)				Total number o mining claims of by this report o	covered	1	
Certification Verifying Rep	ort of Work				_				
I hereby certify that I have a pe after its completion and annexe		ledge of the facts	set forth in	this Report of Work,	having perf	formed the work or with	essed same	during and/or	
Name and Address of Person C									
JUNNIFER A	CUARK-		5 AS e No 1 531-0		2/11 3	$a / a \cdot x \cdot b$	By (Signatu	re) (
Fan Office Name C. I		\)	Received	i Stamp	RECEIVED	my	4	
For Office Use Only				!		LARDER LAKE MINING DIVISIO			-
Total Days Date Recorded Cr. Recorded	Mining	Recorder	400	`,		MAR 15 1991	-		



Symbols Bedding

___ Jointing

LEGEND

001.002 Sample number, away sample number Swamp Capen/treed)

Elembed Topography - Down Stope Direction

____ & Claim Line and Post _____ Hydro Line _____ Logging Road (distinct/overgrown)

MINERAL ABBREVIATIONS

Re feldspar ep epidole ca calcite q v. quartz vein amphibale pynite chalcopynite

LITHOLOBICAL UNITS (not in chronological order)

5 Mafie Intrusives a. Diabase

4 Metasediments

a Conglomerate (Huronian?) 3. Felsic Metavolcanics

2 Intermediate Metavolcanics

a Rephyritic Flows d. Tuff f Lapilli Tulf (phonerilic fragments) h. Agglomerate g. Lapilli Tull (aphanitic fragments)

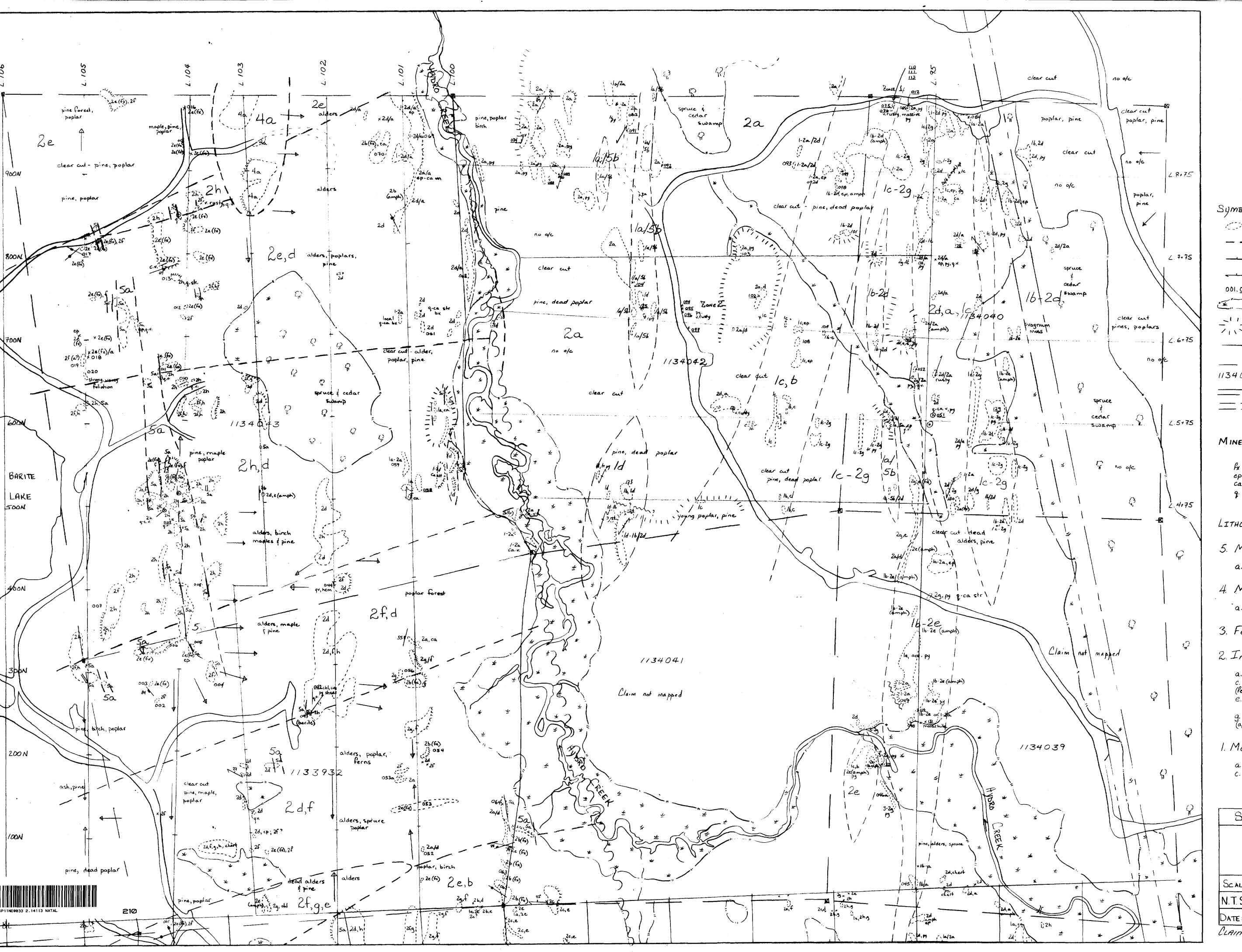
1. Matic and Ultramatic Metavokanies a. Flows C. Lapilli Tuff b. TuMs d Calcile Breccia

SHININGTHEE PROJECT NATAL TWA 1:2000 9 PROSPECTING SAMPLE MAP 1990, J.A. Clark.

2.14113



200



LEGEND

Duterop noole No outerop

- Geological Contact & Boulder

- Bedding - Jointing

- Foliation NA Fault

001.002 Sample number, assay sample number

Swamp Copen/treed)

- Elevated Topography

- Down Slope Direction

- W Claim Line and Post north north

1134039 Claim number

- Hydro Line

- Logging Road Idistinct/overgrown)

MINERAL ABBREVIATIONS

fx feldspar amph amphibole
ep epidote py pynite
ca calcite cp chalcopynite
q.v. quartz vein

LITHOLOGICAL UNITS (not in chronological order)

- 5. Mafic Intrusives
 - a. Diabase b Gabbro
- 4. Metasediments

 a. Conglomerate (Huronian?)
- 3. Felsic Metavolcanics
- 2. Intermediate Metavolcanics
- a. Flows
 c. Porphyritic Flows
 d. Tuff
 (feldspar & quartz phenocrysts)
 e. Crystal Tuff
 f. Lapilli Tuff
 (phaneritic fragments)
 g. Lapilli Tuff
 (aphanitic fragments)
- 1. Matic and Ultramatic Metavolcanics
- a. Flows
 c. Lapilli Tuff

 b. Tuffs
 d. Calcite Breccia
 2.14113

SHININGTREE	PROJECT
GEC	LOGY
Scale 1:2000	0 20m 40m
N.T.S.: 41-P-11	TOWNSHIP: NATAL OWN
DATE: JULY -AUG. 1990	WORK By: J.CLARK
CLAIM HOLDERS: 1133	932 - Michael J. Perkins others - Edward J. Clark

