

410155E0008 2.11276 ROLLO

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RECEIVED JUN 3 1988 MINING LANDS SECTION

GEOPHYSICAL REPORT

ON THE

ROLLO TOWNSHIP PROPERTY

FOR

HANSON LAKE RESOURCES LTD

R.J. Meikle Exsics Exploration Ltd. Timmins, Ontario April 29, 1988

2.11276

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1

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INTRODUCTION

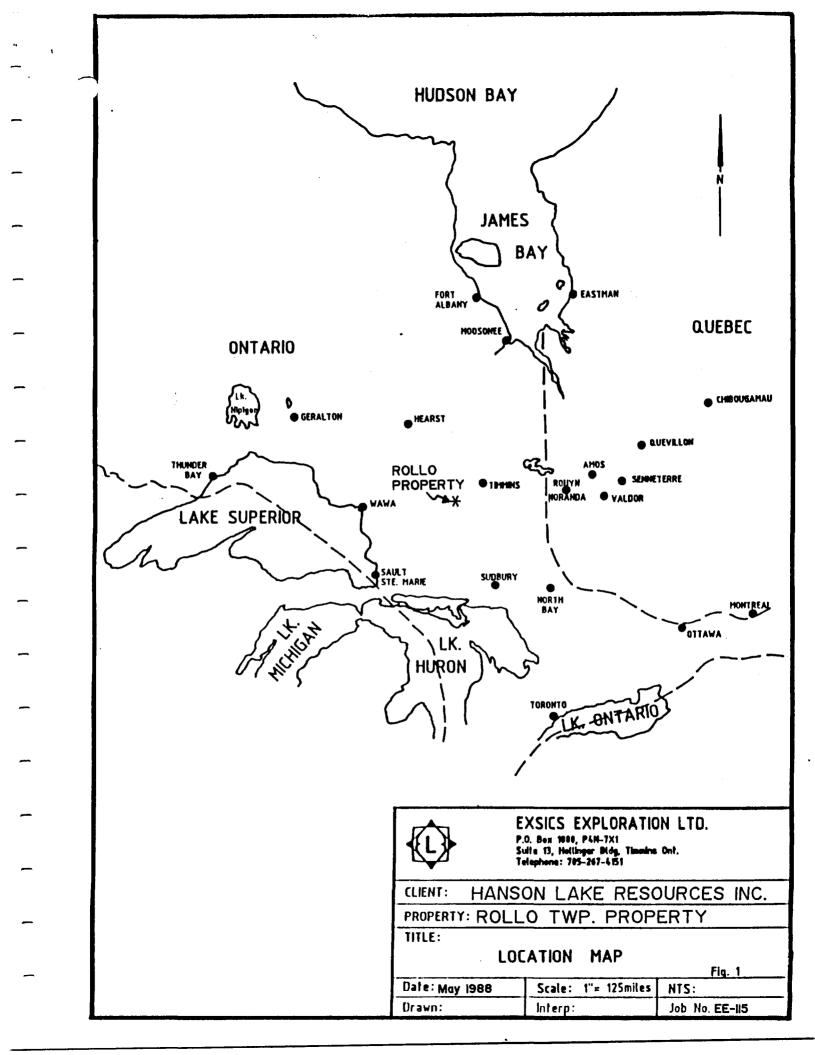
Hanson Lake Resources Ltd holds a group of 30 claims in Rollo Township. An Airborne Magnetic and VLE-EM survey was lown on the property in 1985. The survey showed four EW trending conductors on the property. Three of these were deemed worthy of follow-up by the company's consultant, Mr. A. Hopkins. This report deals with the follow-up ground location of anomalies E, B, C using a Magnetometer and VLE-EM survey.

LOCATION AND ACCESS

The property is located in the central eastern part of Rollo Township, Porcupine Mining Division, Ontario, approximately 75 miles southwest of Timmins. The property lies within the area known as the "Swayze Greenstone Belt."

Access to the property is via Hwy 101, 80 km west of Timmins and south for 50 km on an all-weather, gravel logging road. A gravel road off the main haulage road goes to the "Kenty Mine" which is located in the NE part of Swayze Township. Access from this road to the property is via Hanson Lake about one mile west.

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CLAIM STATUS

The property consists of 30 unpatented mining claims in Rollo Township, Porcupine Mining Division, Ontario. The claims are held in the name of Hanson Lake Resources Ltd. No claim status, expiry dates etc., have been ascertained by the author. The claim numbers are as follows:

672428-672457 inclusive- Rollo Township

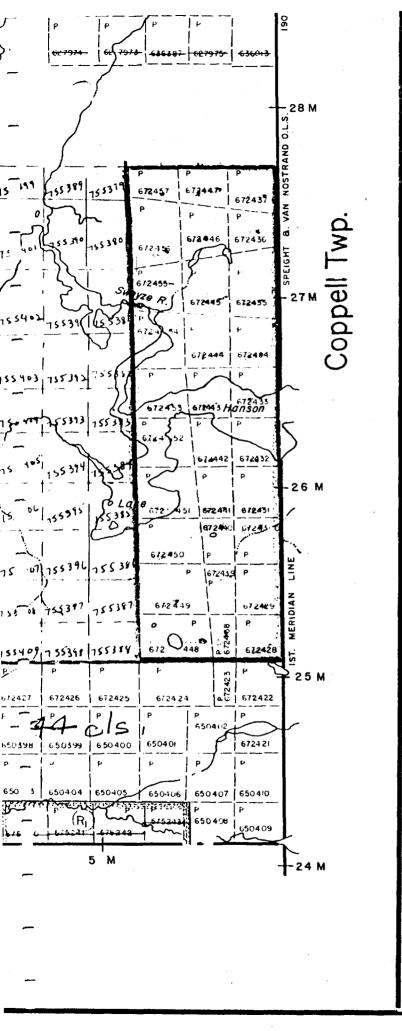
PERSONNEL

The following personnel were directly involved with the project:

Mike Hickey	North Bay	y, Ontario	Feb 1-5,	1988 incl.
Mark Nikkanen	"			"
Steve Anderson	Timmins,	Ontario	March 4,	1988
Brian Keen	"		**	

GEOLOGA

From O.D.M. Map 2221-Chapleau-Foleyet Geological Compilation Series, the area appears to be underlain by Mafic to Intermediate Metavolcanics of Early Precambrian Age. This map shows a diabase dike striking through the middle of the property in a NE direction.



DISPOSITION OF CROWN LANDS

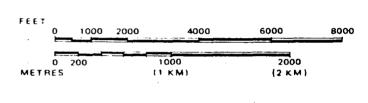
TYPE OF DOCUMENT

SYMBOL

PATENT, SURFACE & MINING RIGHTS
", SURFACE RIGHTS ONLY
", MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
", SURFACE RIGHTS ONLY
", MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER IN COUNCIL OC
RESERVATION
CANCELLED 🕲
SAND & GRAVEL
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6,

1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources

Land Management Branch

Date MARCH, 1985

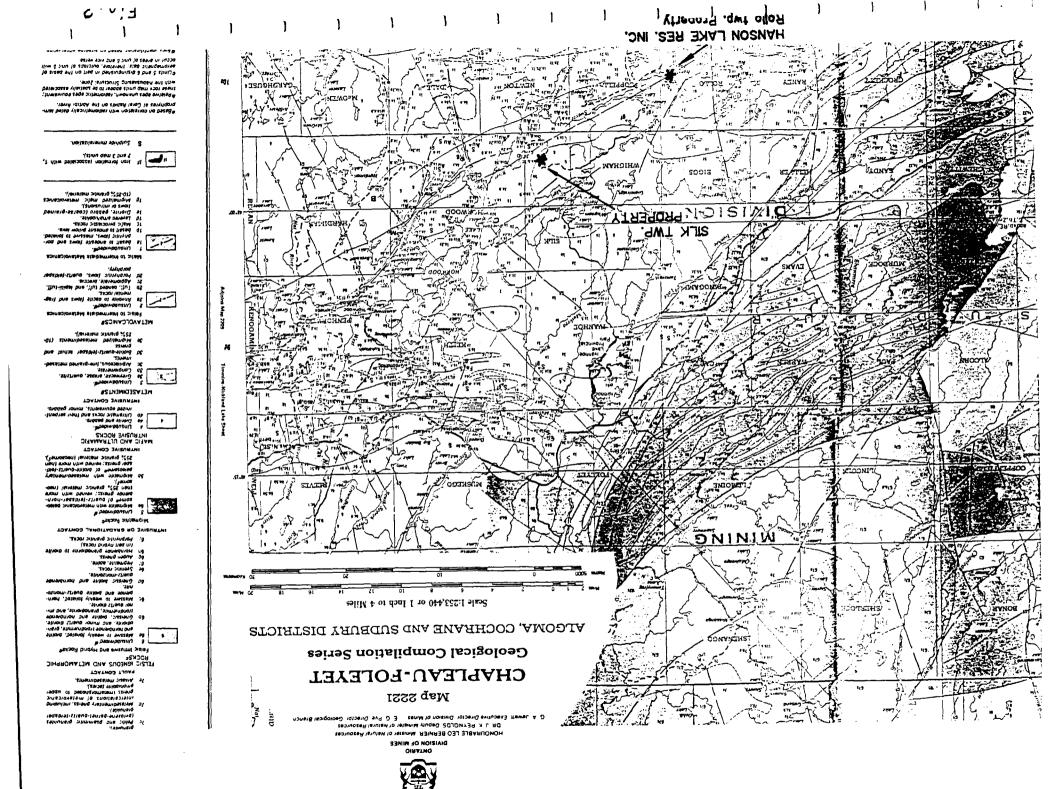
Ontario

ty c) June 4/85

Number G-3246

FIG

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SURVEY PARAMETERS

VLF-EM SURVEYS

A total of 9.675 km of VLF survey was conducted on the property, covering the entire claim group. The VLf method is a high frequency (relatively) EM technique which employs the use of VLF transmitting stations which operate world wide for submarine communications. The magnetic field generated from these vertical atenas is horizontal and concentric. This primary field will produce a secondary field in any conductor properly coupled with the station direction. The VLF-EM method measures the vertical component of the secondary field. Therefore a station should be chosen which is on strike with the expected strike of the conductor one is searching for. This is called Maximum Coupling and in reality stations up to 45 degrees off strike can be used. Because of the high frequency of this method, weak conductive features will be detected, including some overburden features. Therefore, interpretation of VLF data should be done discriminately and used in conjunction with other methods. Under some circumstances structural interpretation can be ascertained if some knowledge of the bedrock is available.

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The VLF-EM survey was carried out using the following parameters:

Instrument	-Crone radem, VLF Receiver
Transmitter Station	-Cutler Maine, (NAA)
Parameter Measured	-In-Phase Dip Angles
Frequency	-24.0 KHZ
Direction to Station	-115 degrees True
All reading taken facing	115 degrees True
Data Presentation	-map No 1-Plan profiled dip angle
	1:2500
	-map No 2-Plan contoured Fraser

Filtered dip angles 1:2500

Magnetometer Survey:

All three conductors were surveyed using the following parameters:

Instrument: Scintrex MP 2 Proton Precession Magnetometer Parameter Measured: Earth's total Resultant Magnetic Field Accuracy : +1 10 Nano Teslas Diurnal Correction Method: Baseline Looping Contour Interval: 100 nt Datum Subtracted for Plotting: 58,000 nt Instrument Specification: Appendix A Data Presentation: Plan Map:3-1:2500 contoured:

- 4 --

RESULTS

<u>ANOMALY 'B'</u> This is the most southerly of the three airborne anomalies tested. It is centered on claim 672440. The VLF survey outlined airborne anomaly 'B' quite well with the strongest response on L 1+20W /0+00. There appears of be some conductivity along the south flank of this conductor with the strongest response on L 2+40W/1+955.

There is no apparent magnetic response coincident with the VLF conductors. The isolated highs are unexplained. <u>ANOMALY 'E'</u> Anomaly 'E' is the middle conductor running along the center of Hanson Lake. The VLF survey outlined a conductor in the center of the lake which appears to be anomaly 'E'. The results are quite broad indicating a possible lake bottom source rather than a true bedrock conductor.

There is no coincident magnetic response on the conductors. The only significant magnetic feature is a high on the NW flank of the conductor which could be caused by a NE trending diabase dike shown on O.D.M. Map 2221- Chapleau-Foleyet- Geological Compilation Series. There is not enough coverage to determine a strike on the magnetic anomaly.

<u>ANOMALY C</u> This is an airborne conductor running EW, east of the Swayze River and approximately 1 km north of anomaly 'E'. The ground VLF survey outlined a conductor running EW along the baseline. However, as with most VLF surveys in this type of environment there are isolated conductive zones. More coverage is needed as well as verification of the conductors by a Max Min

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survey and or an Induced Polarization Survey.

The only magnetic feature is a high in the SE corner of the grid. This high is almost certainly a strike extension of the NE magnetic dike described under anomaly 'E'. It should be noted that the magnetic survey on anomaly 'C' was done at a later date and the values are not tied in to the southern two grids.

RECOMMENDATIONS

The three airborne conductors appear to have been successfully located on the ground. It is strongly recommended that the ground VLF results be verified by either a Max Min horizontal loop survey or an I.P.survey before a diamond drill program is initiated. While anomaly '13' appears to be legitimate, the other two are questionable.

Yours truly,

M mech

R. J. Meikle

CERTIFICATION

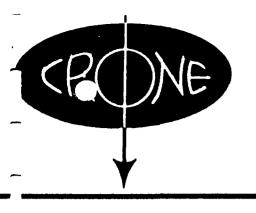
- I, Raymond Meikle of Timmins, Ontario hereby certify that:
 - 1. I hold a three year Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario obtained in 1975.
 - 2. I have been practising my profession since 1973 in Ontario, Quebec, NWT, Manitoba, New Brunswick, Nova Scotia for Teck Exploration Ltd., Metallgesllschaft Canada Ltd., Rayan Exploration., Sabina Industries Ltd., and most recently Exsics Exploration Ltd.
 - 3. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on the results of the field work conducted on the property during April , 1987 which was carried out under my overall supervision.
 - 4. I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Belmoral Porcupine Resources Ltd. or any of it's subsidiary companies.

Dated this_6th day of_Nov., 1987 at Timmins, Ontario

M mech

R.J. Meikle

APPENDIX A



CRONE GEOPHYSICS LIMITED RADEM VLF EM RECEIVER



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

²¹his is a rugged, simple to operate, ONE MAN EM unit. It can be used without line cutting and is thus ideally suited for ROUND 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 location 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

HEAD OFFICE: 3607 Wolfedale Rd. MISSISSAUGA, Ontario CANADA L5C 1V8 PHONE: (416) 270-0096 TELEX: 06-961260

SPECIFICATIONS*

SOURCE OF PRIMARY FIELD: NUMBER OF STATIONS: STATIONS AVAILABLE:

VLF Communications Stations 1 to 25 KHz

7 Switch Selectable

The Seven Stations May Be Selected From:

-	CODE	STATION & LOCATION	CALL SIGN FREQUEN	
Standard	CM	Cutler, Maine	NAA 17:8 KHz a	24.0
99	SW	Seattle, Washington	NLK 24.8 KHz	
	AM	Annapolis, Maryland	NSS	
**	Н	Laulualei, Hawaii	NPM 23.4 KHz	
**	BOF	Bordeaux, Frace	NWU 15.1 KHz	
*1	E	Rugby, England	GBR 16.0 KHz	
Optional	MS	Moscow, Russia	UMS 17.1 KHz	
• 11	OD	Odessa (Black Sea)	EWB 15.6 KHz	
**	NC	Exmouth, Australia	NWC 22.3 KHz	
- "	HN	Helgelend, Norway	JXZ 17.6 KHz	
"	YJ	Yosamai, Japan	NDT 17.4 KHz	
**	TJ	Tokyo, Japan	JG2AR 20.0 KHz	
"	BA	Buenos Aires, Argentina	23.6 KHz	
-				

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 ±2%.

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OPERATING TEMPERATURE RANGE:	-40° C to 50°C (-40° F to 120°F)
DIMENSIONS:	9 cm x 19 cm x 27 cm (3½" x 7½" x 10½")
SHIPPING DIMENSIONS:	30 cm x 14 cm x 36 cm (11%" x 5½" x 14")
WEIGHT:	2.7 kg (6 lbs)
SHIPPING WEIGHT:	6.0 kg (13 lbs)
- BATTERIES:	2 of 9 volt Average Life Expectancy 20 Hours for Continuous Operation

- * Specifications subject to change without notice*

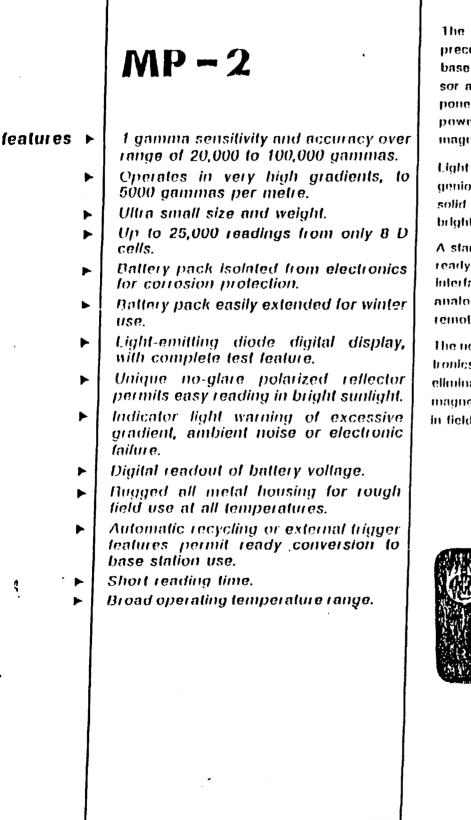
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APPENDIX B

SCINTREX

earth science division

Proton Precession Magnetometer for Portable or Base Station Use

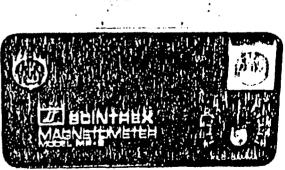


The MP-2 is a portable one gamma proton precession magnetometer for field survey or base station use. The optimized design of sensor and circuitry using the latest CMOS components has resulted in a very light weight, low power consumption, rugged and reliable magnetometer.

Light emitting diodes coupled with an ingenious optically polarized reflector combine solid state reliability with easy reading even in bright sunlight.

A standard automatic recycling feature allows ready use of the MP-2, with suitable (optional) interfacing, as a base station recorder in analogue or diligat form. Alternatively, a remote trigger can be used.

The noise-cancelling dual-coil sensor and electronics have been so designed as to effectively eliminate reading problems due to virtually all magnetic gradients which may be encountered in field survey conditions.



SCINTREX a world of discovery

TECHNICAL DESCRIPTION OF MP-2 MAGNETOMETER

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NESOLUTION	1 Gamma.
TOTAL FIELD ACCURACY	
RANGE	20,000 to 100,000 gammas in 25 overlapping steps.
INTERNAL MEASURING PROGRAMME	Single reading 3.7 seconds, Recyc. feature permits automatic repetitive readings 3.7 seconds intervals.
EXTERNAL TRIGGER	External trigger input permits use of sampling intervals longer than 3.7 seconds.
DISPLAY	5 digit LED (Light Emitting Diode) readout dis- playing total magnetic field in gammas or nor- malized battery voltage.
RECORDER OUTPUT (Optional)	Multiplied precession frequency and gate time outputs for interfacing with incremental tape recorders (eg. increlogger) for digital recor- ding. As an additional option a digital to analogue convertor is available for use with analogue recorders.
GRADIENT TOLERANCE	Up to 5000 gammas/metre.
POWEN SOUNCE	8 alkaline "D" cells provice up to 25,000 readings at 25° C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
SENSOR	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
HARNESS	Complete for operation with staff or back pack sensor.
OPERATING TEMPERATURE TANGE	-35°C to +60°C.
SIZE	Console, with batteries: 80 x 160 x 250mm. Sensor: 80 x 150mm. Staff: 30 x 1550mm. (extended) 30 x 600 mm. (collapsed)
WEIGHTS	Console, with batteries: 1.8kg. Sensor: 1.3kg. Staff: 0.6kg.
	SCINTREX LIMITED 222 Snidercroft Road, Consord, Ordario, Canada L4K 185 1112711301 (410) 669 2210, IFLEX 66-964570



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August 16, 1988

File: 2.11276

ASSESSMENT FILES

OFFICE

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Str:

Re: Mining Claims P 672430 et al in the Township of Rollo AUG 2.5 1983: RECEIVED

This letter will confirm our conversation on August 15, 1988 (Hurst - Bailey) that the maximum days credit for Geophysical assessment work as allowed under Section 77 of the Mining Act has been approved on Mining Claims P 672430 et al.

The claim holder has submitted additional Geophysical data. This material therefore is being forwarded to the Assessment Files Research Office without being assessed by this office. The duplicate copy is being sent to the Resident Geologist.

For further information, please contact (Mrs.) Susan Hurst at (416) 965-4888,

Yours sincerely,

W.R. Cowan, Manager Mining Lands Section Mines & Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

SH:D1

cc: Resident Geologist Timmins, Ontario

> Hanson Lake Resources Ltd. 810 Duplex Drive Toronto, Ontario M4R 1W7



Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

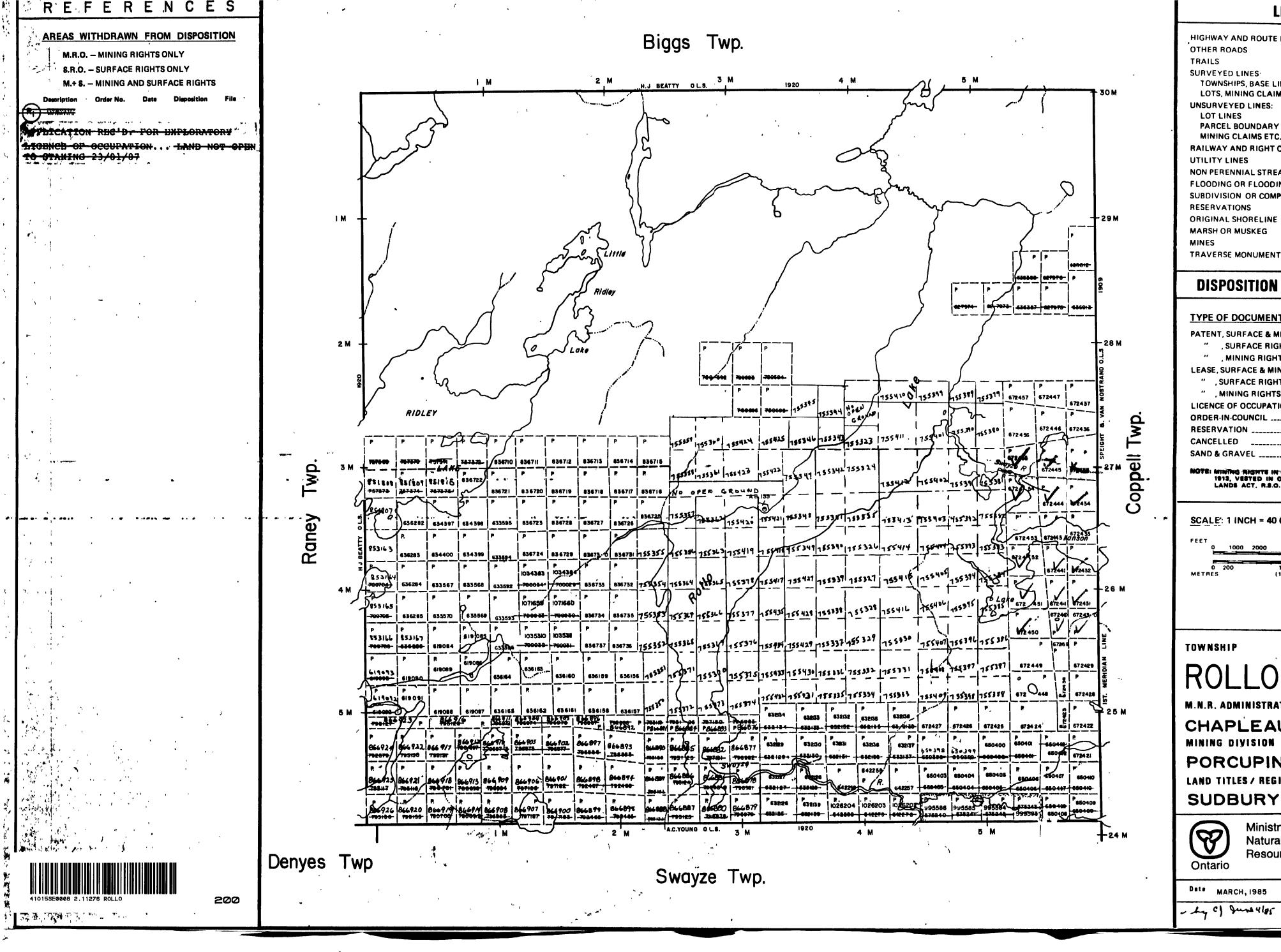
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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

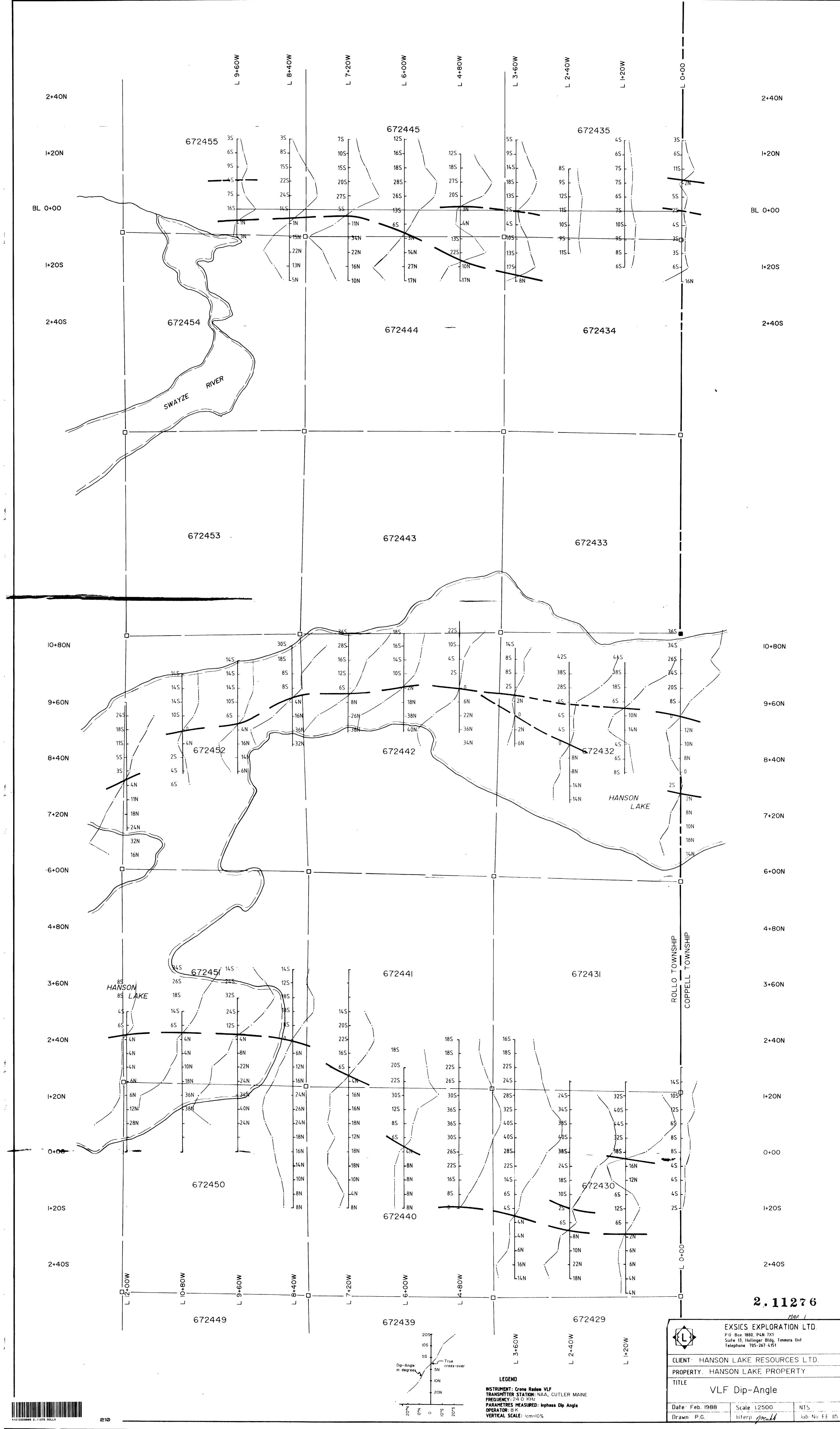
Type of Survey(s)	
Township or Area ROLLO TWP.	MINING CLAIMS TRAVERSED
Claim Holder(s) HANSON LAKE RESOURCES INK	List numerically
810 OUPLEY ANE TORONTO, ANT, MAR INT	
Survey Company Exsus Explor ATION LTO	
Author of Report R.J. MEIKLE	(prefix) (number)
Address of Author PO Box 1880 TIMELLAS OFT PUN 7×1	672 431
Covering Dates of Survey Feb 1 - March 4 , 1988 (linecutting to office)	,
Total Miles of Line Cut 7.33 km	672432
	672434
SPECIAL PROVISIONS DAYS	672 435
CREDITS REQUESTED Geophysical DATS	
-Electromagnetic <u>40</u>	672440
ENTER 40 days (includes	672441
line cutting) for firstMagnetometer surveyRadiometric	672442
ENTER 20 days for each —Other	
additional survey using Geological	672.444
same grid. Geochemical	672445
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	672.450
MagnetometerElectromagnetic Radiometric	
(enter days per claim)	672.451
DATE: 14 30 88 SIGNATURE: 1 Mech	672452
futhor of Report or Agent	672.454
Res. GeolQualifications2.3860	672455
Previous Surveys	
File No. Type Date Claim Holder	
	16
	TOTAL CLAIMS
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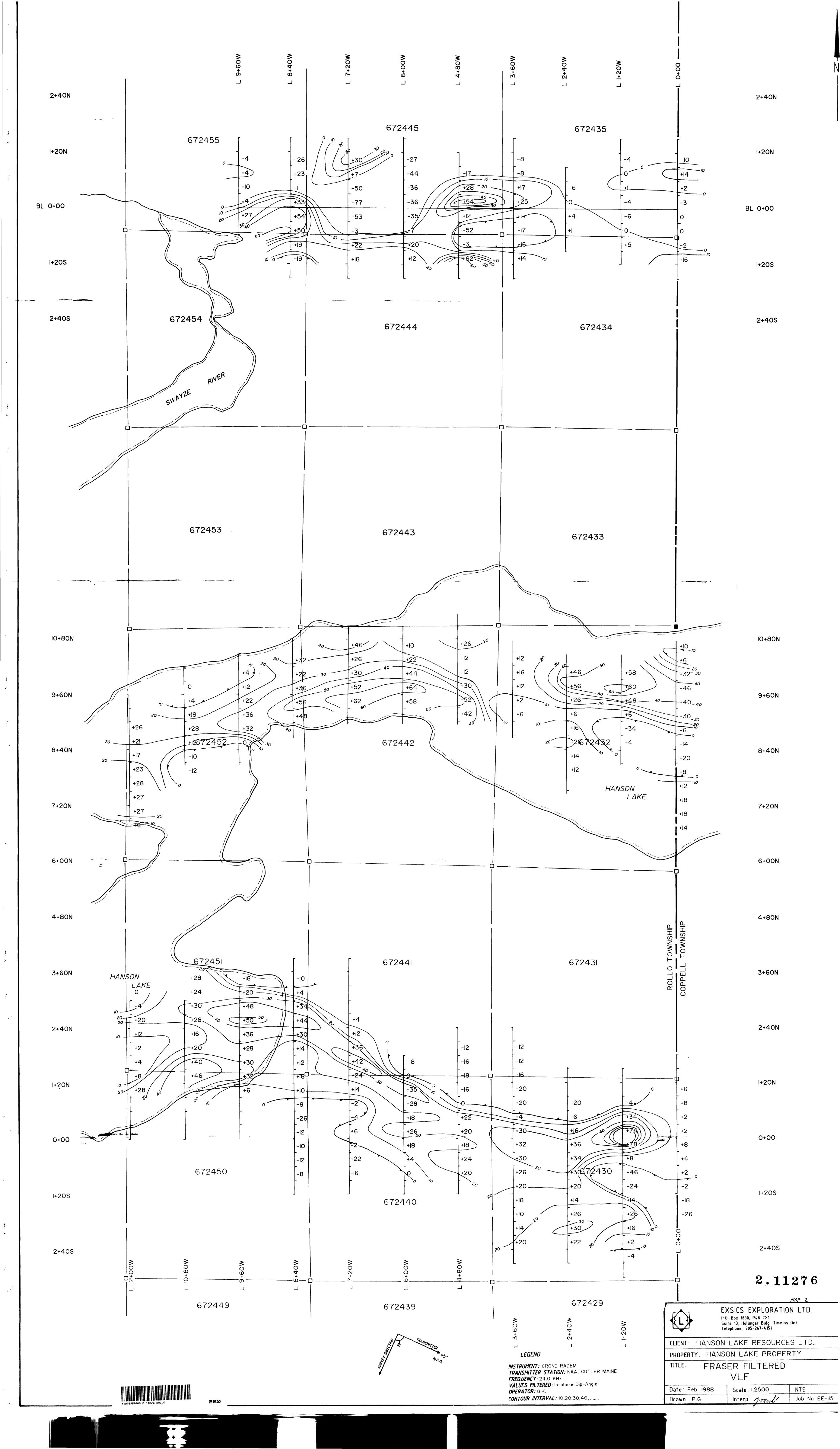
GEOPHYSICAL TECHNICAL DATA

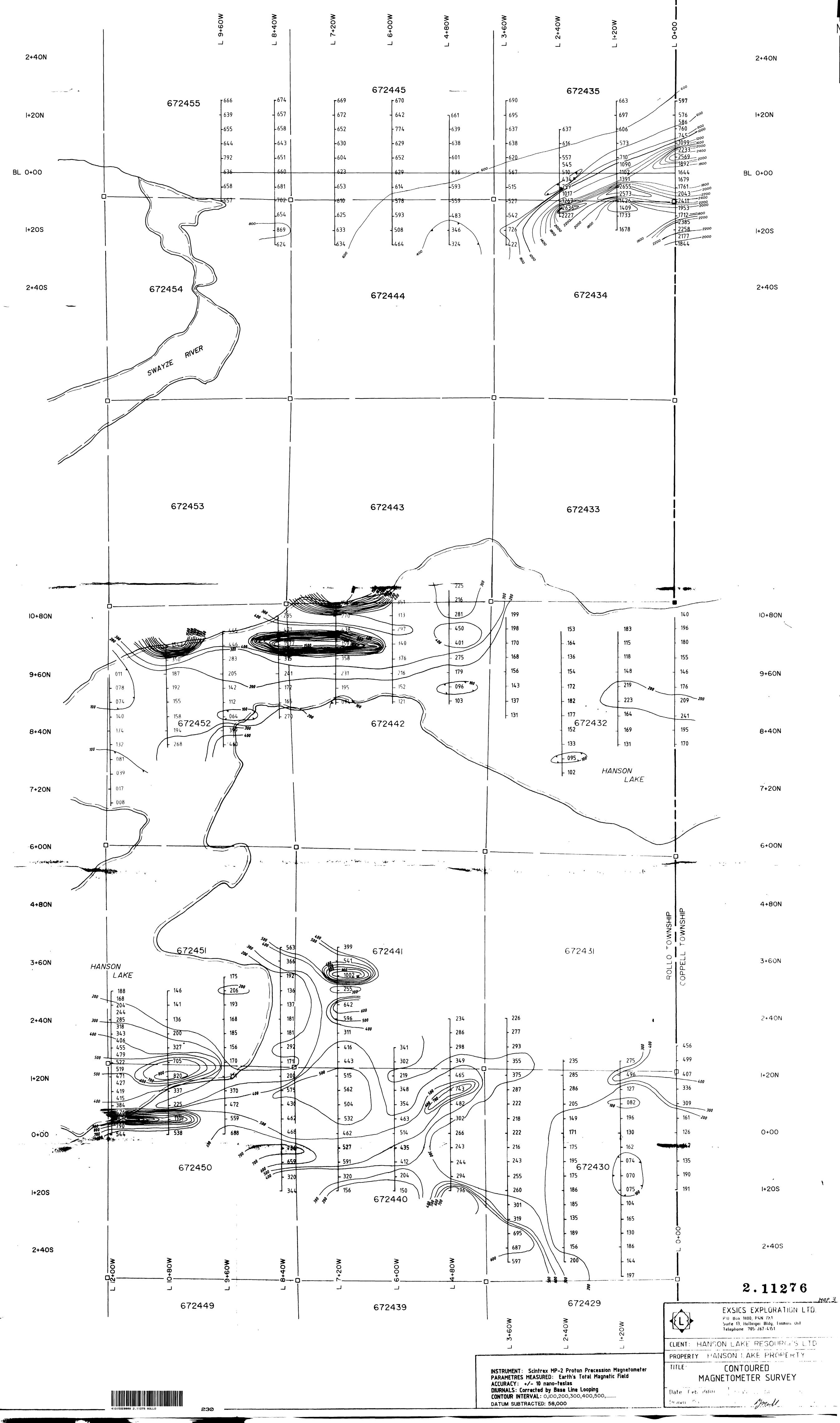
	GROUND SURVEYS – If more than one survey, specify data for e	each type of survey
1	Number of StationsNu	mber of Readings -323
	Station interval Lir	
	Profile scale <u>VEF - Icn = 60 degrees</u>	-
	Contour interval <u>1995 - 100 nT</u>	
	Instrument Santrex MP-2 Pros	ten Presession
MAGNETIC	Accuracy - Scale constant +/- 10T	
INE	Diurnal correction method Baseline deeping	
Y	Base Station check-in interval (hours) $/ H^{R}$	
~4	Base Station location and value <u>All BL velves</u>	
g	Instrument Crone Reden VLF	:
ELECTROMAGNETIC	Coil configuration	
NO	Coil separation	
AMG	Accuracy	
IRC	Method: 🖾 Fixed transmitter 🗆 Shoot b	oack 🔲 In line 🔂 Parallel line
EC EC	Frequency <u>Cutler Maine</u> <u>24ro kHZ</u> (specify Y.L.F. st	
EL	Parameters measured <u>12-phase dip 4.24</u>	ation)
	Instrument	
	Scale constant	
Z	Corrections made	
GRAVI	Base station value and location	
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	Elevation accuracy	
	Instrument	
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	Parameters – On time	1 /
>-	- Off time	• •
717	Delay time	u u u u u u u u u u u u u u u u u u u
1113	- Integration time	
RESISTIVITY	Power	
R	Electrode array	
	Electrode spacing	
I	Type of electrode	



LEGEN	lU ;
HIGHWAY AND ROUTE No.	^
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ET LOTS, MINING CLAIMS, PARC	
UNSURVEYED LINES:	·
LOT LINES	
PARCEL BOUNDARY MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
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TYPE OF DOCUMENT	SYMBOL
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SAND & GRAVEL	
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