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T-5003

REPORT ON AN
AIRBORNE MAGNETIC AND VLF-EM SURVEY
GRENFELL TOWNSHIP
LARDER LAKE MINING DIVISION, ONTARIO

for

GLEN AUDEN RESOURCES LTD ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

by

TERRAQUEST LTD. Toronto, Canada

RECEIVED

JULY 4, 1985

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MINING LANDS SECTION

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No.	T-5003-2,	Vertical Magnetic Gradient
		VLF-EM Survey
No.	T-5003-4.	Interpretation

- 1 -

1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Glen Auden Resources Ltd. by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on Apr. 11 & 12, 1985 and the data processing, interpretation and reporting from Apr. 13 to August 27, 1985.

The purpose of a survey of this type is two-fold. One is to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 100 meters above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. THE PROPERTY

The property is located in Grenfell, Maisonville, Bompass, and Lee townships, in the Larder Lake Mining Division of Ontario about 13 kilometers northwest of the town of Kirkland Lake, Ontario. They can be reached by Highway no. 11 which bisects the property.

The latitude and longitude are 48 10', and 80 15' respectively, and the N.T.S. reference is 42 A/1.

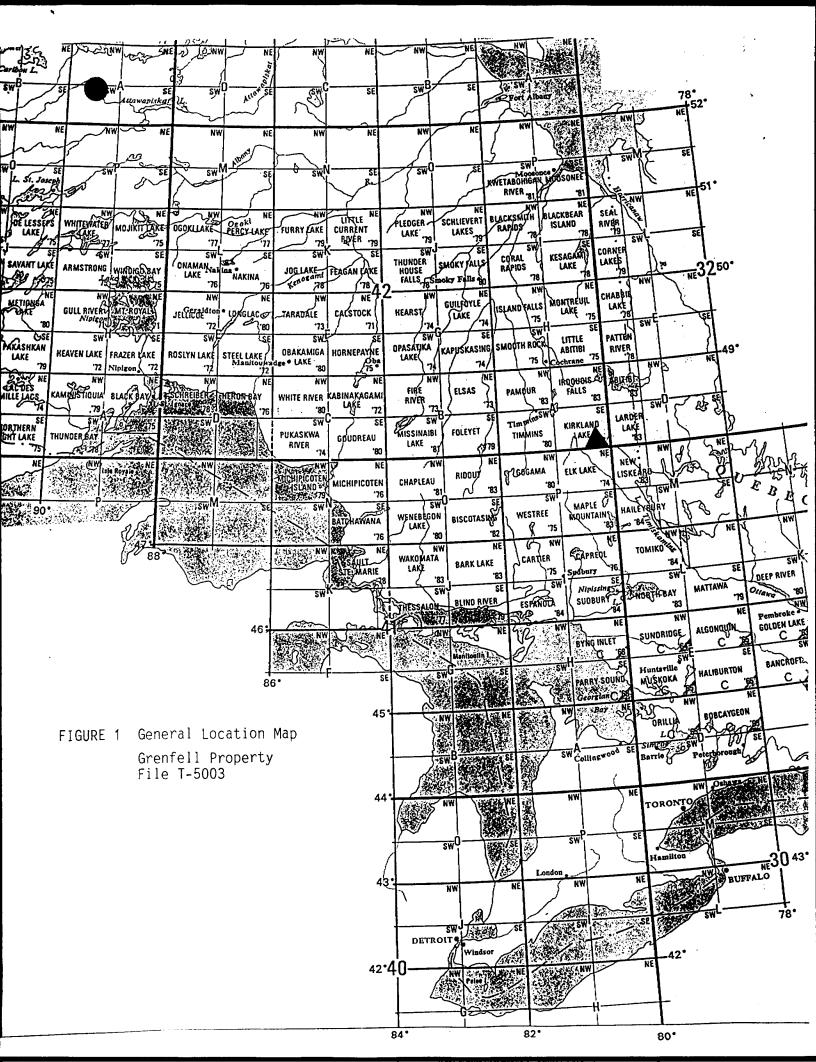
The claim numbers are indicated on figure 2 and listed in the appendix.

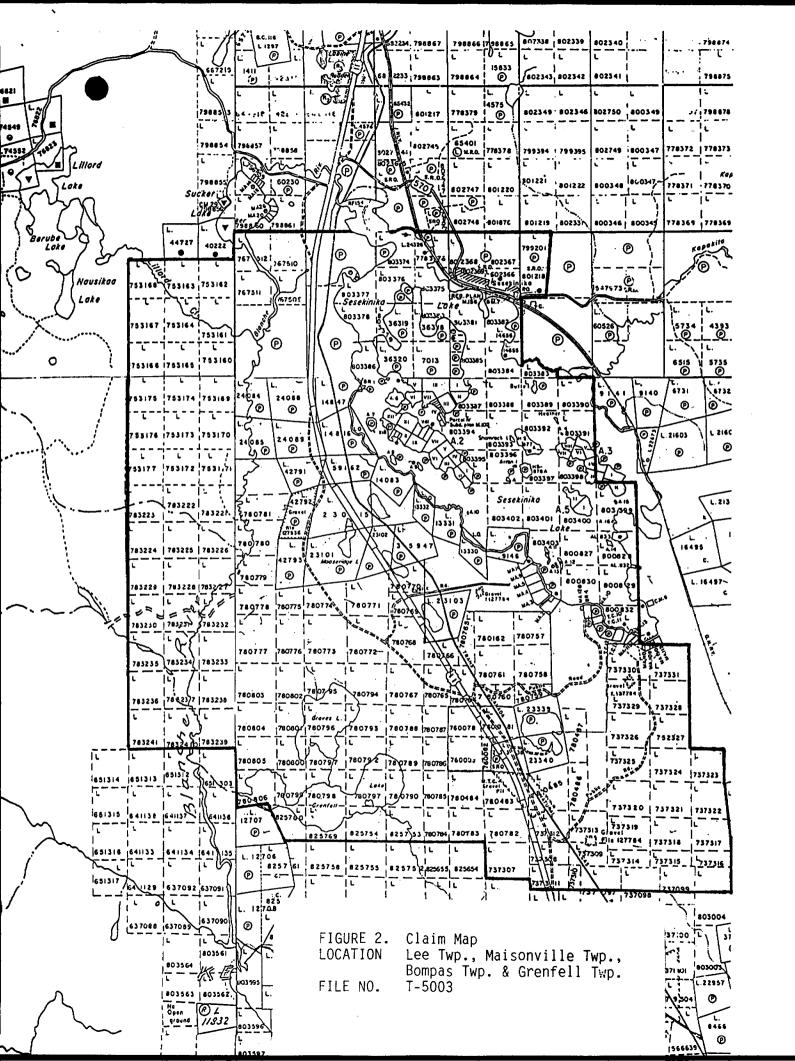
3. GEOLOGY

Map References

- 1. Map 2060: Bompass and Grenfell Twps, 1:31680, 0.D.M., 1964.
- 2. Map 2214, Terry and Lee Twps, 1:31,680, 0.D.M.,1971.
- 3. Map 2215, Benoit & Maisonville Twps, 1:31,680, 0.D.M., 1971







The main suite of rock types underlying the claim group is that of Archean mafic to to intermediate volcanics. These are primarily pillowed, fragmental or massive Keewatin basalts and andesites possessing moderately to steeply dipping schistocity trending to the northwest. Large pods of gabbro occur along the northern, eastern and south central boundaries of the survey area and in places are thought to represent coarser centres of the mafic flows. Minor dacite and rhyolite occur near the northern pods of the gabbro.

Several prominent NNW trending diabase dykes intrude the mafic volcanics along the southeast adge of Sesekinika Lake. A very narrow NW trending acidic intrusion, possibly syenite, occurs towards the

southwest edge of the mafic volcanics.

A northerly trending synclinal belt of Huronian sediments overlie the mafic volcanics along the western boundary of the survey. These are shallow dipping sediments comprised primarily of arkose and greywacke with minor argillite. Adjacent areas indicate prominent north-south faulting.

SURVEY SPECIFICATIONS

4.1 Instruments

The survey was carried out using a Cessna 182 aircraft, registration C-FAKK, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a proton precession type with the sensor element mounted in an extension of the right wing tip. It's

specifications are as follows:

Resolution: Accuracy:

0.5 gamma One gamma One second

Cycle time: Range:

20000 - 100000 gammas in 23 overlapping

steps

Gradient tolerance: Up to 5000 gammas per meter

Model: Manufacturer: GSM-8BA GEM Systems Inc., 105 Scarsdale Rd.,

Don Mills, Ontario, M3B 2R5



The VLF-EM unit uses three orthoganol detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase relationship between the vertical coil and both the "along line" coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned to a transmitter station that is ideally positioned at right angles to the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are:

Accuracy: 1%

Reading interval: 1, Model:

1/2 second TOTEM 2A

Manufacturer:

Herz Industries, Toronto

The VLF sensor is mounted in the left wing tip extension.

Other instruments are:

. King RA-10A Radar altimeter

. UDAS-100 data processor with Digidata nine track tape recorder, manufactured by Urtec Ltd., Markham, Ontario.

. Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.

4.2 Lines and Data

a) Line spacing:
b) Line direction:
c) Terrain clearance:
d) Average ground speed:
100 meters
100 meters
100 meters
100 meters
100 meters
100 meters

e) Data point interval:

Magnetic: 42 meters VLF-EM: 21 meters

f) Tie Line interval: 2 kilometers

g) Channel 1 (LINE): NSS Annapolis, 21.4 kHz h) Channel 2 (ORTHO): NAA Cutler, Me., 24.0 kHz

i) Line km over total survey area: 435

j) Line km over claim groups: 300

4.3 Tolerances

a) Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line. b) Terrain clearance: Portions of line which were flown above 125 meters for more than one km were reflown if safety considerations were acceptable.



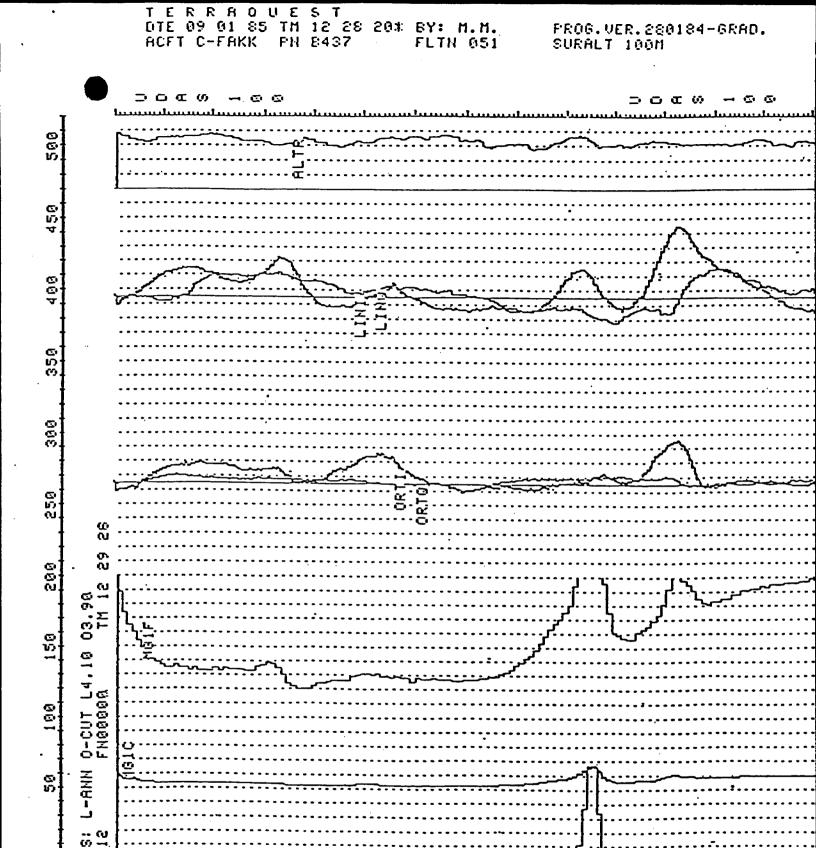


FIGURE 3. SAMPLE OF ANALOGUE DATA

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то Охо⊢мкк⊄о́⊃мо⊢ Е, финифинифинифин c) Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.

d) Manoeuvre noise: Approximately +/-5 gammas.

4.4 Photomosaics

For navigating the aircraft and recovering the flight path, mosaics of aerial photographs were made from existing air photos. In order to provide a semi-controlled base the photos were laid down on a topographic map which had been photographically adjusted to the photo scale. The laydown was then photographed and printed at the final map scale.

5. DATA PROCESSING

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF was not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/4 the flight line spacing.

The vertical magnetic gradient is computed from the total field data using a method of transforming the data set into the frequency domain, applying a transfer function to calculate the gradient, and then transforming back into the spatial domain. The method is described by a number of authors including Grant, 1972 and Spector, 1968.

Grant, F.S.; Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics, August 1972.

Spector, A.; Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto, 1961.



The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

6. INTERPRETATION

6.1 General Approach

To satisfy the purpose of the survey as stated in the introduction, the interpretation procedure was carried out on both the magnetic and VLF data. On a local scale the magnetic gradient contour patterns were used to outline geological units which have different magnetic intensity and patterns or "signatures". Where possible these are related to existing geology to provide a geological identity to the units. On a regional scale the total field contour patterns were used in the same way.

Faults and shear zones are interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting in the general area is taken into account when selecting faults. Folding is usually seen as curved regional patterns. Alteration zones can show up as anomalously quiet areas, often adjacent to strong, circular anomalies that represent intrusives. Magnetic anomalies that are caused by iron deposits of ore quality are usually obvious owing to their high amplitude, often in tens of thousands of gammas.

VLF anomalies are categorized according to whether the phase response is normal, reverse, or no phase at all. The significance of the differing phase responses is not completely understood although in general reverse phase indicates either overburden as the source or a conductor with considerable depth extent, or both. Normal phase response is theoretically caused by surface conductors with limited depth extent.

Areas showing a smooth response somewhat above background (ie. 110 or so) are likely caused by overburden which is thick enough and conductive enough to saturate at these frequencies. In this case no response from bedrock is seen.



6.2 Interpretation

The total field magnetic data shows about 1500 gammas relief over the survey area. The Cobalt Group of sediments along the western portion of the area are essentially invisible to the magnetometer, hence all magnetic relief is derived from the underlying volcanics and intrusives.

There is good correlation between the large strong magnetic anomalies and exposures of unit 4b, gabbro and diorite. These larger bodies appear to be stratigraphically related to the thinner, moderate strength magnetic unit 1m. Together these outline a large foldlimb with a fold nose toward the northern centre of the map area.

Most of the geologically mapped diabase dikes have a prominent and characteristic signature allowing interpretation of several others.

The correlation of the small felsic intrusive northwest of Groves Lake with a prominent magnetic anomaly indicates the potential for further such intrusives; however, this case should be verified by detailed ground follow-up.

Some VLF conductor axes are coincident with glacial scouring and clay infill while others are clearly related to bedrock sources and should be investigated on the ground by conventional EM or IP methods.

7. SUMMARY

A combined magnetic and VLF-EM survey has been done on the survey area at a data density of approximately 1.6 km. per mineral claim. The magnetic data has been used to modify and update the existing geology and has shown a number of new contacts and faults. A number of VLF-EM conductor axes were found of which some are believed to be have potential sulphide origin and have been recommended for additional investigation.

R. K. WATSON

TERRAQUEST LTD.

Roger K. Watson, B.A.Sc., P.Eng. Geophysicist

Charles Q. Barrie, M.Sc.



Claim List for Bompass. Lee, Grenfell, and Maisonville Townships Total of 128 Claims

Glen Auden Resources Limited is the Claim Holder for the following Claims: License # T 1915

737307
737308
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Charles R. Morgan is the Claim Holder for the following Claims: License # K 14751

753160 .	753177	780767
753161	753178	780768
753162	780483	780769
753163	780484	780770
753164	780485	780771
753165	780486	780772
753166	780487	780773
753167	78075 7	780774
753168	780758	780775
753169	780759	780776
753170	780760	780777
753171	780761	780778
753172	780762	780779
753173	780763	780780
753174	780764	780781
753175	780765	·
753176	780766	

Wilf Cooper is the Claim Holder for the following Claims: License # K 18068

Adrien Beaudin is the Claim Holder for the following claims: License # M18830





Gyro Capital Ltd. is the Claim Holder for the following claims:

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L- 778376
                L- 803390
   778377*
                    803391
   803374
                    803392
   803375
                    803393
   803376
                    803394
   803377
                    803395
                                        * partial coverage;
                    803396
   803378
                                          remainder to follow
   803379
                    803397
                                          on survey to north
                    803398
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Premier Exploration is the Claim Holder for the following claims:



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Ministryof Report of Work

Natural (Geophysical, Geological, Geochemical and Expenditures)

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Geochemical and Expenditures)

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R.K. Watson. C	/o Merranie	st. add	iress :	as above_			
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June 28, 1985	Krucell	u for		(X. Not.	.//10	- Asset	//
Certification Verifying Re	port of Work	knowledge	of the facts	set forth in the Rep	port of Work a	nnexed hereto, having perfor	med the work
or witnessed same during a	and/or after its completi	on and the a	nnexed repo	rt is true.			
Name and Postal Address of F	Person Certifying	m	Box	1637			
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Claim List for Bompass, Lee, Grenfell, and Maisonville Townships Total of 128 Claims

Glen Auden Resources Limited is the Claim Holder for the following Claims: License # T 1915 on extension until July 31, 1985 737307 December 21, 1983 July 31, 1985 on extension until December 21, 1983 737308 July 31, 1985 737309 on extension until December 21, 1983 July 31, 1985 on extension until 737310 December 21, 1983 July 31, 1985 on extension until 737311 December 21, 1983 July 31, 1985 737312 on extension until December 21, 1983 July 31, 1985 on extension until 737313 December 21, 1983 July 31, 1985 on extension until 737314 December 21, 1983 July 31, 1985 on extension until 737315 December 21, 1983 July 31, 1985 on extension until 737316 December 21, 1983 July 31, 1985 on extension until 737317 December 21, 1983 July 31, 1985 on extension until 737318 December 21, 1983 on extension until July 31, 1985 December 21, 1983 737319 July 31, 1985 737320 on extension until December 21, 1983 July 31, 1985 on extension until 737321 December 21, 1983 July 31, 1985 on extension until December 21, 1983 737322 July 31, 1985 on extension until December 21, 1983 737323 July 31, 1985 737324 on extension until December 21, 1983 July 31, 1985 on extension until 737325 December 21, 1983 July 31, 1985 on extension until December 21, 1983 737326 July 31, 1985 on extension until 737327 December 21, 1983 July 31, 1985 737328 on extension until December 21, 1983 July 31, 1985 on extension until 737329 December 21, 1983 July 31, 1985 on extension until December 21, 1983 737330 July 31, 1985 on extension until December 21, 1983 737331 July 31, 1985 780782 on extension until December 12, 1983 July 31, 1985 on extension until 780783 December 12, 1983 July 31, 1985 on extension until 780784 December 12, 1983 July 31, 1985 on extension until 780785 December 12, 1983 July 31, 1985 on extension until December 12, 1983 780786 on extension until July 31, 1985 December 12, 1983 780787 on extension until July 31, 1985 December 12, 1983 780788 July 31, 1985 on extension until December 12, 1983 780789 July 31, 1985 780790 on extension until December 12, 1983 July 31, 1985 on extension until 780791 December 12, 1983 July 31, 1985 780792 on extension until December 12, 1983 July 31, 1985 780793 on extension until December 12, 1983 on extension until July 31, 1985 780794 December 12, 1983 July 31, 1985 on extension until 780795 December 12, 1983 July 31, 1985 on extension until December 12, 1983 780796 July 31, 1985 on extension until December 12, 1983 780797 July 31, 1985 on extension until December 12, 1983 780798 July 31, 1985 on extension until 780799 December 12, 1983

Date Certified

June 27/85

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December	12,	1983	780800	on	extension	until	July	31.	1985
December	12,	1983	780801	on	extension	until			1985
December	12,	1983	780802	on	extension	until			1985
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December	12,	1983	780805		extension				1985
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Charles	R. Morgan	is the Claim	Holder for the following	 .
License	# K 14751	mo orani	ibider for the following	Claims:
October	19, 1983	753160	on extension until	•
	19, 1983	753161	on extension until	July 31, 1985
October	19, 1983	753162	on extension until	July 31, 1985
October	19, 1983	753163	on extension until	July 31, 1985
October	19, 1983	753164	on extension until	July 31, 1985
October	19, 1983	753165	on extension until	July 31, 1985
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October	19, 1983	753168	on extension until	July 31, 1985
October	19, 1983	753169	on extension until	July 31, 1985
October	19, 1983	753170	on extension until	July 31, 1985
October	19, 1983	753171	on extension until	July 31, 1985
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December	8, 1983	780483	on extension until	July 31, 1985
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December 8, 1983 780780	on extension until July 31, 198	5
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Adrien Beaudin is the Claim Holder for the following claims:

License								1005
August	17,	1984	825753		extension until			
August					extension until			
August					extension until			
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June 27/85

Certified of Signature)

Wilf Cooper is the Claim Holder for the following Claims:

License # K 18068 August 8, 1983 767511 August 8, 1983	on extension until on extension until on extension until on extension until	August 19, August 19,	1985
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ype of Work Performed				1819	MI Ilist	2131415	1	
Performed on Claim(s)				· · · · · · · · · · · · · · · · · · ·	1	1 1		
<u> </u>					1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_
					 			
Calculation of Expenditure	Days Credits	Total	_		-			
Total Expenditures	[Da ₁	rs Credits		<u> </u>				
\$	÷ [15] = [claims	umber of mining covered by this	42
nstructions Total Days Credits may b	be apportioned at the claim	hoider's				report	of work.	
•	days credits per claim select		Total Days C	or Office Use (1	Mining	Resorder /	
	12		Recorded	AUG '	19198		5 1/h /	
Pate Igust 12, 1985	Recorded Molder or Agent	(Signature)	300	Date Approver	as Record	ed 2	Director	
ertification Verifying R	Penor of Work	" und	mt	1. 1J.	// D	42	J)	
I nereby certify that I ha	ve a personal and intimate l	nowledge o	f the facts set for	th in the Report	of Work a	nnexed heret	o, having performe	d the work
or witnessed same during	and/or after its completion	and the anr	nexed report is tr	ue.		·		
lame and Postal Address of R. Bruce		•					<i>^</i> -	Λ
·				Date Certified		Certific	of (Signature)	7//
Dog 1697	Timmins, Ont. P	4N 7W8		Aug.1	2/85		5/1.1100 1	141.

List of 42 Claims

Claim #	Recorded
799 291	Premier Explorations Inc.
800 827	Gyro Capital Inc.
800 828	Gyro Capital Inc.
800 829	Gyro Capital Inc.
800 830	Gyro Capital Inc.
800 831	Gyro Capital Inc.
800 832	Gyro Capital Inc.
803 374	Gyro Capital Inc.
803 375	Gyro Capital Inc.
803 376	Gyro Capital Inc.
803 377	Gyro Capital Inc.
803 378	Gyro Capital Inc.
803 379	Gyro Capital Inc.
803 380	Gyro Capital Inc.
803 381	Gyro Capital Inc.
803 382	Gyro Capital Inc.
803 383	Gyro Capital Inc.
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803 387	Gyro Capital Inc.
803 388	Gyro Capital Inc.
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803 393	Gyro Capital Inc.
803 394	Gyro Capital Inc.
803 395	Gyro Capital Inc.
803 396	Gyro Capital Inc.
803 397	Gyro Capital Inc.
803 398	Gyro Capital Inc.
803 399	Gyro Capital Inc.
803 400	Gyro Capital Inc.
803 401	Gyro Capital Inc.
803 402	Gyro Capital Inc.
803 403	Gyro Capital Inc.
802 366	Premier Explorations Inc.
802 367	Premier Explorations Inc.
802 368	Premier Explorations Inc.
802 369	Premier Explorations Inc.
801 218	Premier Explorations Inc.

- * Premier Explorations Inc., 33 Premier Avenue West, Kirkland Lake Ontario P2N 2S7
- * Gyro Capital Inc., Suite 1710, 390 Bay Street, Toronto, Ont. M5H 2Y2

Natural (Geo	ort of Work physical, Geological, chemical and Expendi	tures)	J.83°		Note: -	If number exceeds spa Only days "Expenditu in the "E	of mining clair ace on this form, credits calcula ares" section may expend. Days Cr	attach a list. Ited in the Ited be entered It columns.
Type of Survey(s) Al rborne Mag	* VI.F-FM	1)	wining	<u> </u>	Township	or Area	shaded areas being le, Grenfe	
Claim Holder(s)							's Licence No.	-
Gyro Capital	Inc.				· · · · · · · · · · · · · · · · · · ·	T-13:	31	
i	390 Bay Stree	t, Toro	nto, Onte	ario M5H	2Y2			
Survey Company Terraques	t Ltd., Suite	1214		[(from & to) 85, 15,08		Total Miles of line 15.62	Cut
Name and Address & CLERONG	f the,TedQPondage)	Ont. M	5H 2G4	Bay P Mo.	or. Bayop	Mo. Yr.	10.02	1
Credits Requested per Each	c/o Terraques	ta. addr	esa as al	oove.	() i.e. i.e	-i1	\	
Special Provisions	Geophysical	Days per	Wilning Cia	aims Traversed	Expend.	Mi	nce) ining Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic	<u> </u>		778 376				
includes line cutting)	- Magnetometer		****					
For each additional survey:	- Radiometric							
using the same grid: Enter 20 days (for each)	- Other							
2	Geological		TOTAL TOTAL	******				
	Geochemical							
Man Days	Geophysical	Days per	-					
Complete reverse side		Claim			_			
and enter total(s) here	- Electromagnetic							
	- Magnetometer		.442					
	- Radiometric		21 1 1 d		BECE			
	- Other		- 1		WECE	AT)	
	Geological				SEP -	1000		
	Geochemical			·	1	1303		
Airborne Credits	1	Days per		MI	VING LAND	0 000	Au	
Name Caratal associations	-	Claim			100000		<u>UN</u>	
Note: Special provisions credits do not apply	Electromagnetic	40	32.7					
to Airborne Surveys.	Magnetometer	40					*****	
	Radiometric					- \$3.2		
Expenditures (excludes pow	er stripping)		1.74 (1.74)	LARD	ER LA	(E		1
Type or work remorning				D B C	e in we			
Performed on Claim(s)				1 10 6 6		U	h	
				AU	6 2 8 1985			
				7 19 10 10 1	1,12, 1, 2, 3	PM		
Calculation of Expenditure Day	's Credits	Total		1 y lo fairch	112112131	1010		
Total Expenditures	_	s Credits	1.00					
\$] + [15] = [•		mber of mining vered by this	1
Instructions Total Days Credits may be a	poortioned at the elei-	holder's				report of		
Total Days Credits may be a choice. Enter number of day			Total Davi	For Office Use	Only	Mining	corder 1	/
in columns at right.	01	/// :	Recorded	Cr. Dete AUG	% 8 1985 (/
Date Recorded folder or Agent (Signatura) Date Approved as Recorded Branch Director								
August 26, 1985	Drue 1	whom		. کری ۔ کلم	11-8	100	∞ (ψ	
Certification Verifying Report		nowledge o	f the facts set	forth in the Ren	ort of Work ann	exed hereto	having performer	the work
or witnessed same during an	d/or after its completion							
Name and Postal Address of Pe	rson Certifying	_						

Date Certified
Aug. 26/85

Box 1637, Timmins, Ont. P4N 7W8 1362 (81/9)

R. Bruce Durham

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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 Su	rvey(s) <u>A</u> ı	chorne V.	LF-EM and Magnetemet	tr		
Township of	or Area Grealer(s) Glass	Ander	. 11 >	Two.	MINING CLAIMS	
0 0		- ,	1 1 1 .	NT	see attend	id list
· ·	· · · · · · · · · · · · · · · · · · ·	erragu	1 A A =		(prefix)	(number)
Author of	Report/_	oger 11 5-121 Rio	hund St. Tolowo		**************************	***************************************
	Author 90		1			
Covering D	ates of Surv	ey_thr	(linecutting to office)	2/25	***************************************	••••••••••
Total Miles	of Line Cur				*************************	
	<u> </u>					
	PROVISION REQUEST		DAY8 Geophysical per claim.		•••••	••••••
			-Electromagnetic			
1	40 days (inc	ludes	-Magnetometer	_		
	ng) for first		-Radiometric	-	***************************************	•••••
survey.	20.1			-	***************************************	••••••
	20 days for Il survey usi		-Other	-		
same grid	•	ı,R	Geological	-		
			Geochemical			•••••••••••
		=	sion credits do not apply to airborne surve	ys)		
Magnetome	ter_40_	Electromagi (enter d	netic <u>40</u> Radiometric			
Λ	٠,		1/11.11		•••••••••••	,,,
DATE:_A	ugast 30	AS SIGNA	TURE: Author of Report or Asset			•••••••
						••••••••••
Res. Geol		Onalif	ications			•••••••
Previous Su		χ				
File No.	Туре	Date	Claim Holder			
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•••••					TOTAL CLAIMS_	182

GEOPHYSICAL TECHNICAL DATA

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

N	Number of Stations	Number o	Readings	
	tation interval			
	rofile scale	-	•	
	Contour interval			
r vi	Instrument			
MAGNETIC	Accuracy - Scale constant			
Ž	Diurnal correction method			
ŽĮ.	Base Station check-in interval (hours)			
	Base Station location and value			
4	Instrument			
ELECT KOMAGNETIC	Coil configuration			
3	Coil separation			
	Accuracy			
4	Method:		☐ In line	☐ Parallel line
	Frequency			
3	Parameters measured			
	Tarameters measured			
	Instrument			
	Scale constant			
7	Corrections made			
ZKAVILY	Corrections made			
3	Base station value and location			
-	Dase station value and location			
	Elevation accuracy			
	Dictation accuracy			
	Instrument			
	Method		quency Domain	
	Parameters — On time		•	
54	Off time		•	
Ħ	- Delay time		-5	
	- Integration time			
RESISTIVITY	Power			
2	Electrode array			
	Electrode spacing			
	Type of electrode			
	TABE OF ETECTIONE			

INDUCED POLARIZATION

GEOCHEMICAL SURVEY - PROCEDURE RECORD

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

Claim List for Bompass, Lee, Grenfell, and Maisonville Townships Total of 128 Claims

Glen Auden Resources Limited is the Claim Holder for the following Claims: License # T 1915

737307 737308 737309 737310 737311 737312 737313 737314
737315 737316
737317
737318
737319
737320
737321
737322
737323 737324
737324
737326
737327
737328
737329
737330
737331
780782
780783
780784 780785
780786
780787
780788
780789
780790
780791
780792



Charles R. Morgan is the Claim Holder for the following Claims: License # K 14751

		·
753160 .	753177	780767
753161	753178	780768
753162	780483	780769
753163	780484	780770
753164	780485	780771
753165	780486	780772
753166	780487	780773
753167	780757	780774
753168	780758	780775
753169	780759	780776
753170	780760	780777
753171	780761	780778
753172	780762	780779
753173	780763	780780
753174	780764	780781
753175	780765	100.02,
753176	780766	

Wilf Cooper is the Claim Holder for the following Claims: License # K 18068

Adrien Beaudin is the Claim Holder for the following claims: License # M18830



to follow to north

Gyro Capital Ltd. is the Claim Holder for the following claims:

Premier Exploration is the Claim Holder for the following claims:

Mining Lands Section

File No 2.8391

Control Sheet

		TYPE OF	SURVEY	GEOPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE
MINING	LANDS	COMMENTS	S:	
			<	Maisonville, Grentell>
\ \	R.	•		Signature of Assessor

Date

TERRAQUEST LTD. T



October 22, 1985

Land Management Branch, Whitney Block, Room 6643, Queen's Park, Toronto, Ontario. M7A 1W3

Attention: Susan Hurst

Re: File 2.8391, Larder Lake Mining Division

Dear Susan:

Returned, herein, is the Magnetometer plan in duplicate with the corner claim boundaries and numbers indicated. Also, included is a photocopy of the claim map which should have been in the text of the report.

Should there be any further problems, please do not hesitate to contact me.

RECEIVED

Charles Barrie Vice-president

OCT 2.5 1985 MINING LANDS SECTION

CB:mes encl.

October 18, 1985

File: 2.8391

Terraquest Ltd Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1

Attention: Charles Barrie

Dear Sir:

RE: Airborne Geophysical (Electromagnetic & Magnetometer) Surveys submitted on Mining Claims L 753160, et al, in Bompass, Lee, Grenfell & Maisonville Townships

Returned herein is the Magnetometer plan (in duplicate) for the above-mentioned surveys. On each, please show the perimeter claim numbers and return the plans to this office, quoting file 2.8391.

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

SH/mc

cc: Mining Recorder
Kirkland Lake, Ontario
(#299, #306, #241)

Adrien Beaudin Timmins, Ontario

Charles R. Morgan-Timmins, Ontario Encl. Wilf Cooper St. Catharines, Ontario

Glen Auden Resources Ltd Toronto, Ontario

REGISTERED

August 21, 1985

Report of Work #241

Wilf Cooper 39 Riverview Blvd St. Catharines, Ontario L2T 3L9

Dear SDr:

RE:

Mining Claims L 767509, et al, in Bompass, Lee, Grenfell and Maisonville Townships

I have not recieved the reports and maps (in duplicate) for Airborne Geophysical (Electromagnetic & Magnetometer Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on July 2, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on August 31, 1985.

If the material is not submitted to this office by August 31, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

A. Barr:mc

cc: Terraquest Ltd
Suite 905
121 Richmond Street West
Foronto, Ontario
M5H 2K1

cc: Mining Recorder
Kirkland Lake, Ontario

Encl.

REGISTERED

August 21, 1985

Report of Work #241

Adrien Beaudin Box 7 R.R.#1 Timmins, Ontario

Dear Sir:

RE:

Mining Claims L 825753, et al, in Bompass, Lee, Grenfell and Maisonville Townships

I have not received the reports and maps (in duplicate) for Airborne Geophysical (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on July 2, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on August 31, 1985.

If the material is not submitted to this office by August 31, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

A. Barr:mc

cc: Terraquest Ltd
Suite 905
121 Richmond Street West
Woronto, Ontario
M5H 2K1

cc: Mining Recorder
Kirkland Lake, Ontario

Encl.

REGISTERED

August 21, 1985

Report of Work #241

Charles R. Morgan Box 1326 Timmins, Ontario P4N 7J8

Dear Sir:

RE: Mining Claims L 753160, et al, in Bompass, Lee, Grenfell and Maisonville Townships

I have not received the reports and maps (in duplicate) for Airborne Geophysical (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on July 2, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on August 31, 1985.

If the material is not submitted to this office by August 31, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

A. Barr:mc

cc: Terraquest Ltd
Suite 905
121 Richmond Street West
Toronto, Ontario
M5H 2K1

cc: Mining Recorder
Kirkland Lake, Ontario

Encl.

REGISTERED

August 21, 1985

Report of Work #241

Glen Auden Resources Limited Suite 2400 130 Adelaide Street West Toronto, Ontario N5H 3C2

Dear Sirs:

RE: Mining Claims L 737307, et al, in Lee Grenfell, Bompass & Maisonville Townships

I have not received the reports and maps (im duplicate) for Airborne Geophysical (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Nork" was recorded by the Mining Recorder on July 2, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on August 31, 1985.

If the material is not submitted to this office by August 31, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

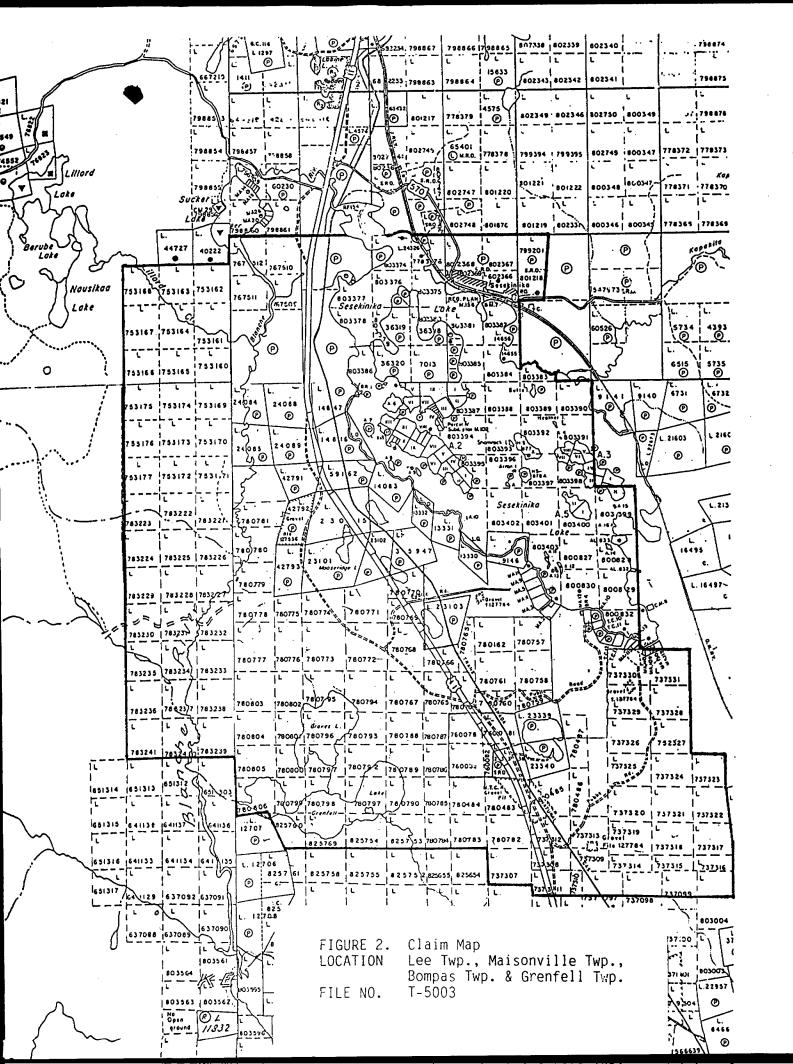
S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

A. Barr:mc

cc: Terraquest Ltd
Suite 905
121 Richmond Street West
Toronto, Ontario
M5H 2K1
Enc].

cc: Mining Recorder
Kirkland Lake, Ontario



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+ S. — MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
_			\$.R.O.	~~ 27993
SEC. 35/80	*-48/8 I-	-11/6/81	s.no	27 99 3
® sec 36/80	W.IQIZ-81	27/+0/8	S.R BM.R	
Sec 36/00	W +02/8+	6./↓ /8 +	WRO	
® 9€ € 36/80		6/11/8		

SAND AND GRAVEL

- GRAVEL FILE 127536
- GRAVEL FILE 127784
- MITC GRAVEL PIT
- GRAVEL FILE 64647

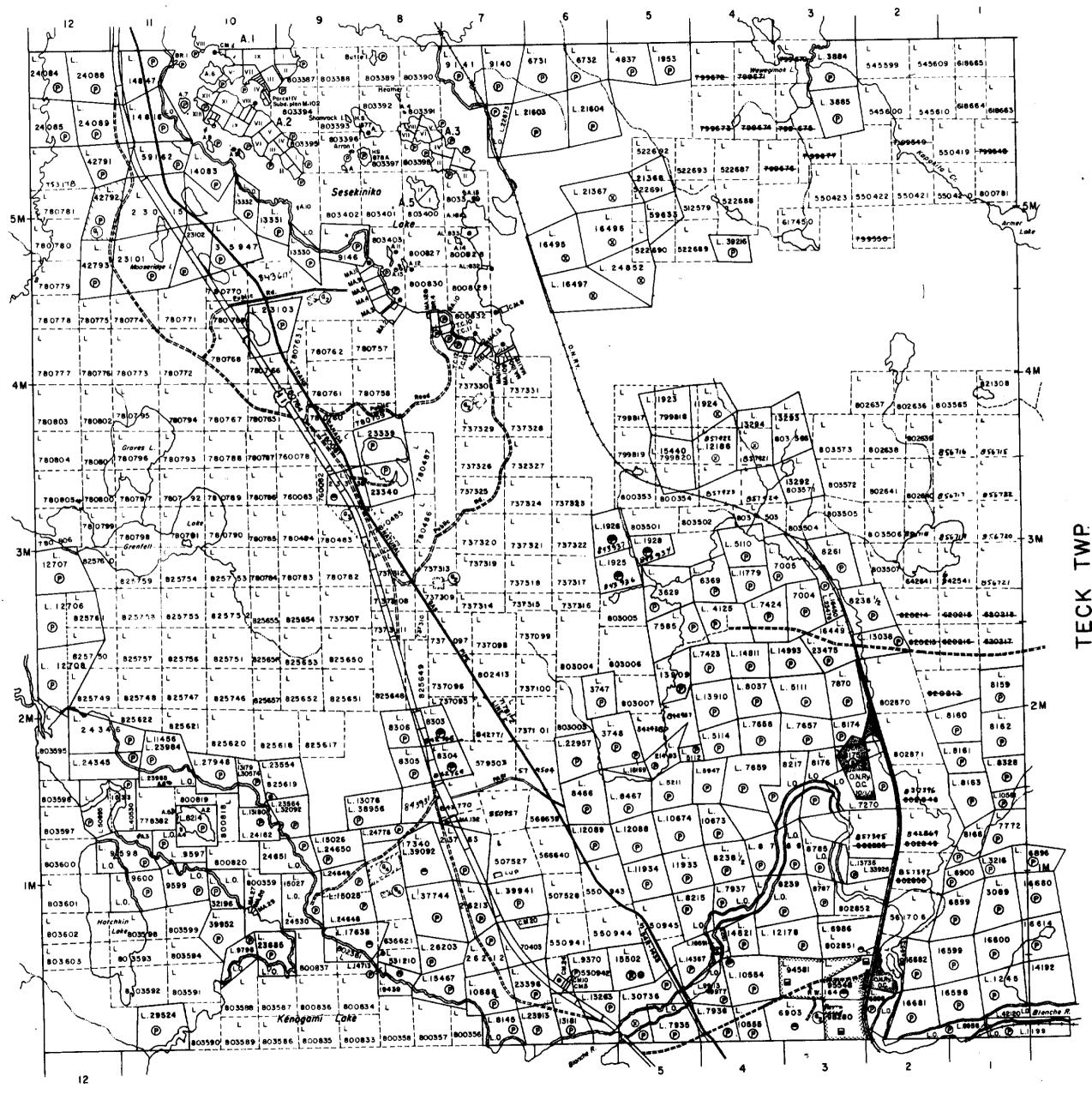
NOTES

ALL ISLANDS IN SESEKINIKA LAKE ARE WITHDRAWN
FROM STAKING BY ORDER-IN-COUNCIL DATED DEC.7,1921

Sept. 10/85

LARDER LAKE MINING DIV.

MAISONVILLE TWP



LEGEND

GHWAY AND ROUTE No.	
THER ROADS	
RAILS	
JRVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, E	тс. —
NSURVEYED LINES:	
LOT LINES PARCEL BOUNDARY	
MINING CLAIMS ETC.	
AILWAY AND RIGHT OF WAY	+
TILITY LINES	
ON-PERENNIAL STREAM	
LOODING OR FLOODING RIGHTS	**********
UBDIVISION OR COMPOSITE PLAN	
ESERVATIONS	
RIGINAL SHORELINE	
IARSH OR MUSKEG	
IINES	
RAVERSE MONUMENT	-

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	L.0. or ▼
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	<u> </u>
SAND & GRAVEL	

SCALE: 1 INCH = 40 CHAINS

FEET	O Interes	1000	2000	4000	6000 6000
METF	0 TES	200		1000 (1 KM)	2000 (2 KM)

TOWNSHIP

GRENFELL

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

LARDER LAKE
LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Ministry of Natural

Land Management

Ontario

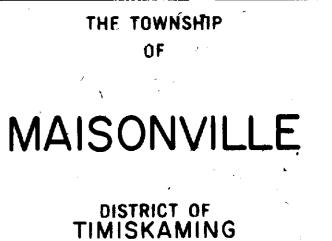
Natural Manage Resources Branch

Date JANUARY, 1985

G-3212



BOMPAS



LARDER LAKE MINING DIVISION

SCALE: 1-INGH 40 CHAINS

LEGEND	3
PATENTED LAND	•
CROWN LAND SALE	
LEASES	/
LOCATED LAND	<i>;/</i>
LICENSE OF OCCUPATION	
MINING RIGHTS ONLY	
SURFACE RIGHTS ONLY	
ROADS	=
IMPROVED ROADS	7
KING'S HIGHWAYS	=
RAILWAYS	
POWER LINES	-
MARSH OR MUSKEG	7
MINES	•
CANCELLED	~
PATENTED S.R.O.	

NOTES

400' surface rights reservation along the shores. of all lakes and rivers.

> Areas withdrawn from staking under Section 43 of the Mining Act, R.\$0.1970. (Sec.42, R.SQ. 60) Order No. File

22032

Σ

aug. 8/85

All islands in Sesekinika Lake are withdrawn from staking by Order-in-Council dated Dec.7, 1921.

withdrawn from staking, set & (6. public dands Act. under

PLAN NO.

M.361 ₹2

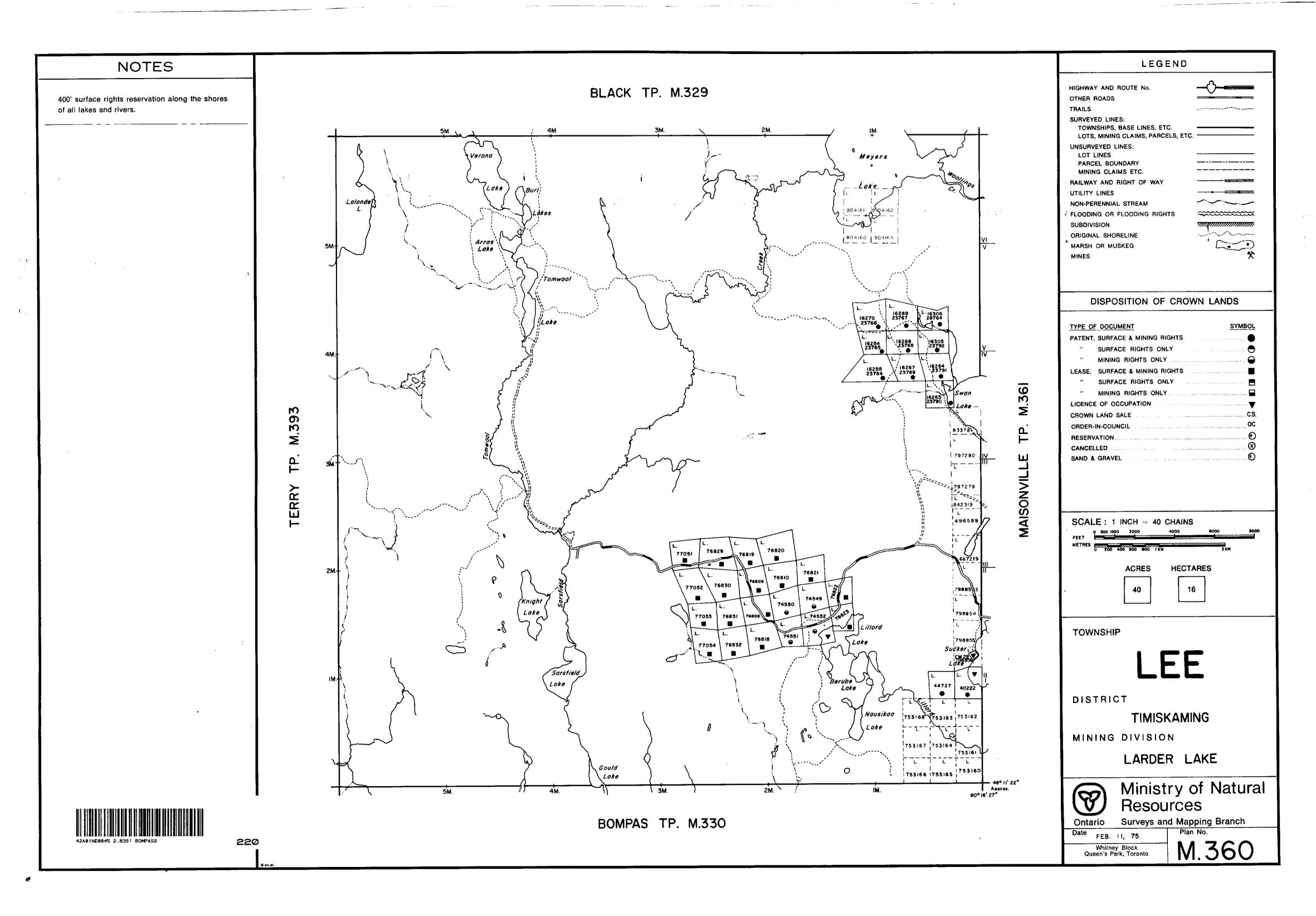
ONTARIO

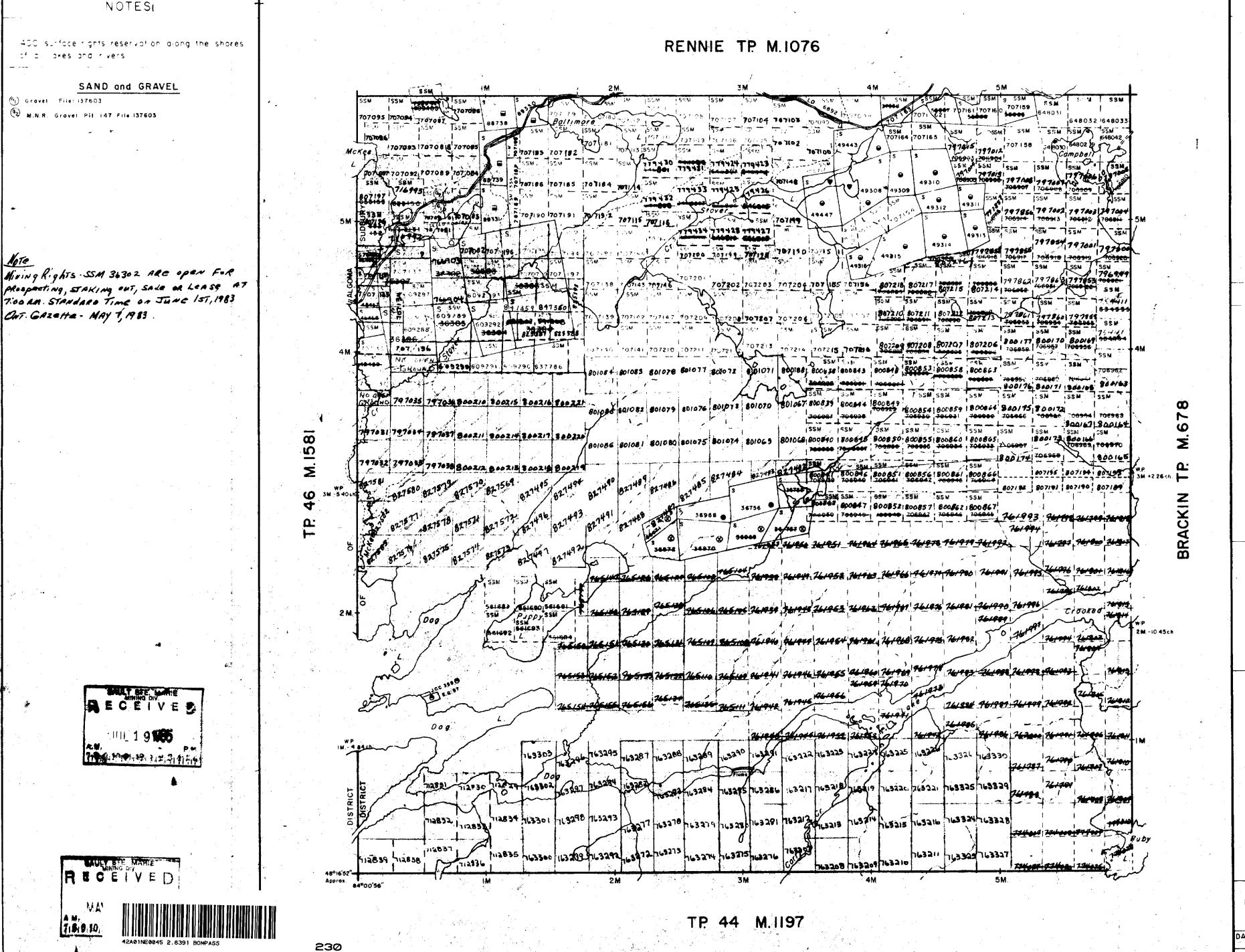
MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH

796216 796215 796214 1796213 741681 741680 ERNHARDT 198818 198877 NR.W. 5/81 2 GRENFELL TWP - M.351

843.888 | 547 | 581 | 78562 | 78563 | 741868 | 741868 741682 741683 7416/84 8252 741687 741686 741686 831(23 531(23 531(23 531) 643279 643276 799326 :741853 741852 741851 6788 741693 741692 741691 741859 1741858 799328 697992 697993 799330 799329 697995 697994 P 0 0 10 1 9 1 9 1 745555 1985 195557 195508 802972 602973 800001 795600 P 302 975 302 974 | 47796 756 100 P 6466 145543 | 745644 | 746645 | 745646 3000 to 126 200 167364 185518 195519 47798 7052 179 801980 801981 195521 195520 47799 767362 767360 767370 767373 @ 741673 741672 334964 834963 814962 834961 P 796209 796208 102 354 203558 203557 811235 622 173 82265 82362 20177 1763788 803559 1603560 821234 922174 812964 812963 799809 799808 741667 741866 741865 799972 79997 802332 802334 802334 799896 799897 799897 799897 799897 799897 802337 POL336 802355 760256 760235 480233 634261 634262 804590 800480 800160 692234 793849 793860 793871 76238 188539 202390 634244 634243 793882 L d L 68 2253 799277 799276 | 15833 P | 15 (802349 802346 802350 198878 1 801220 200247 801220 200241 801222 800348 1780228 731467 800344 9 778370 800344 9 80/7/6 80/2/9 150232 760234 251465 77/368 77/369 4317 14724 60 223/ 602232 760234 251465 751466 (P) LO LO (P) 60 223/ 602232 24920 1 GC 0896 629099 760019

M.360





LEGEND HIGHWAY AND ROUTE No OTHER ROADS DISPOSITION OF CROWN LANDS RESERVATION CANCELLED SAND & GRAVEL **HECTARES** ACRES 16 40 TOWNSHIP

STOVER

SUDBURY

MINING DIVISION

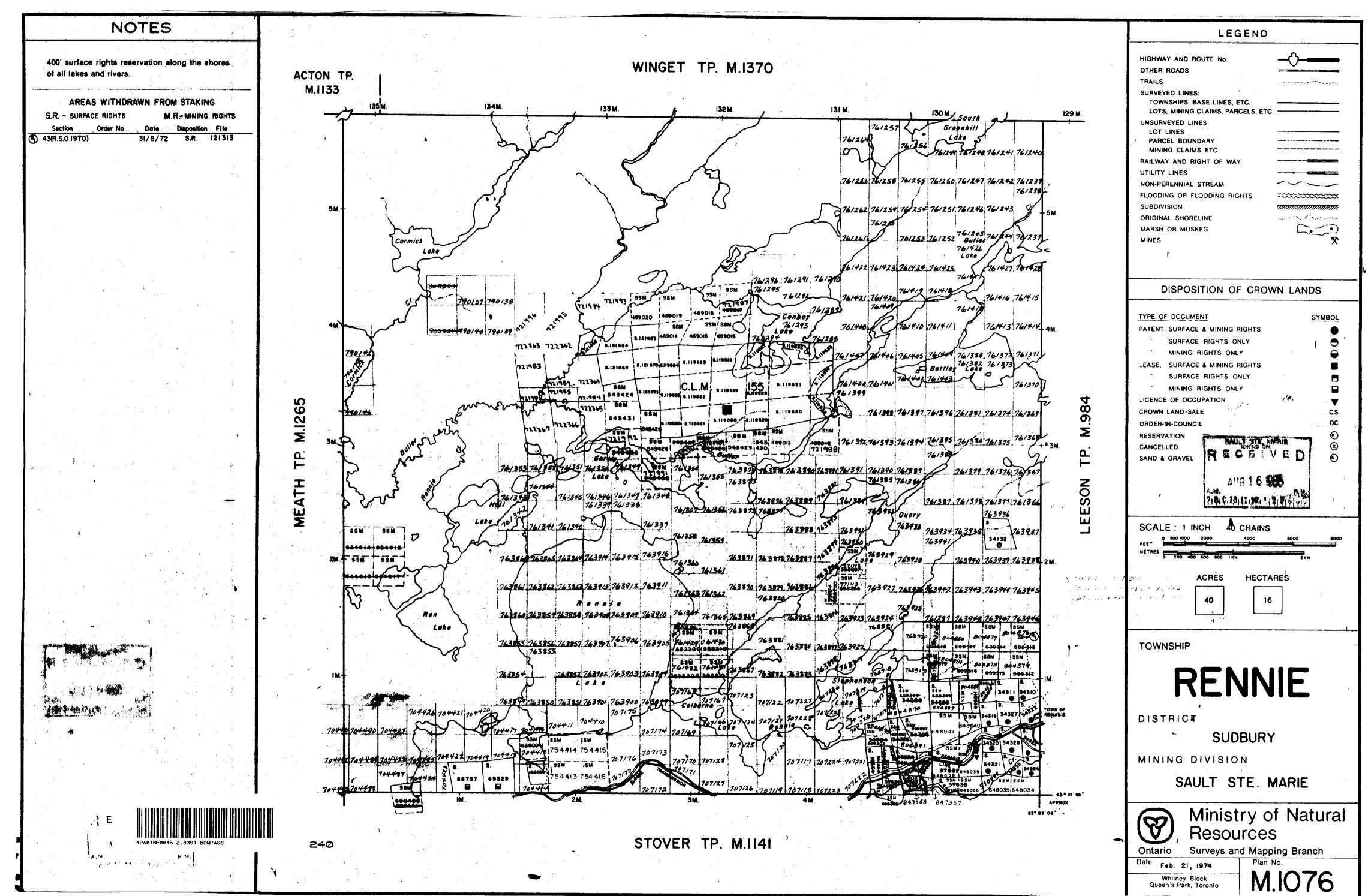
SAULT STE. MARIE

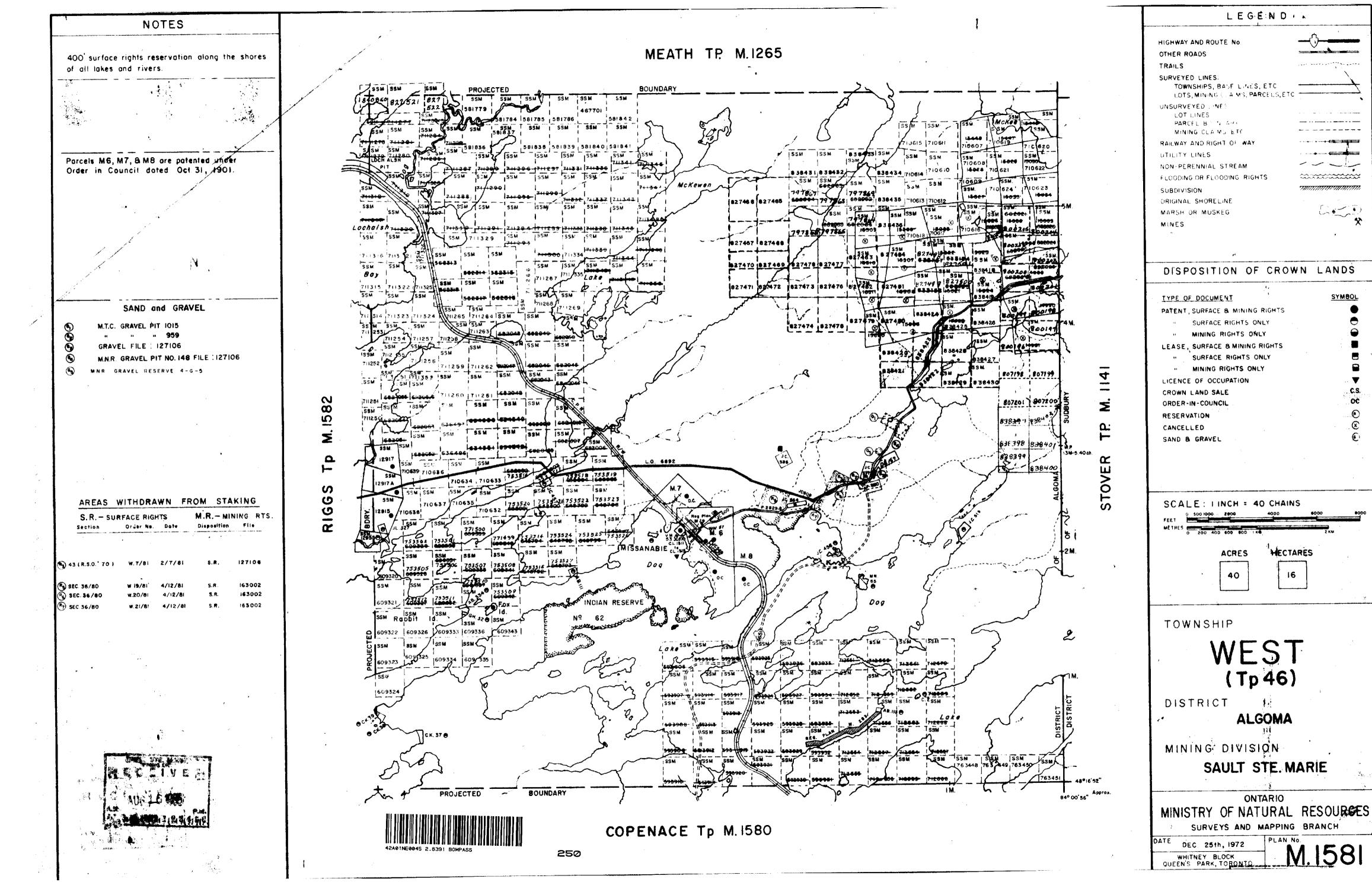
ONTARIO MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

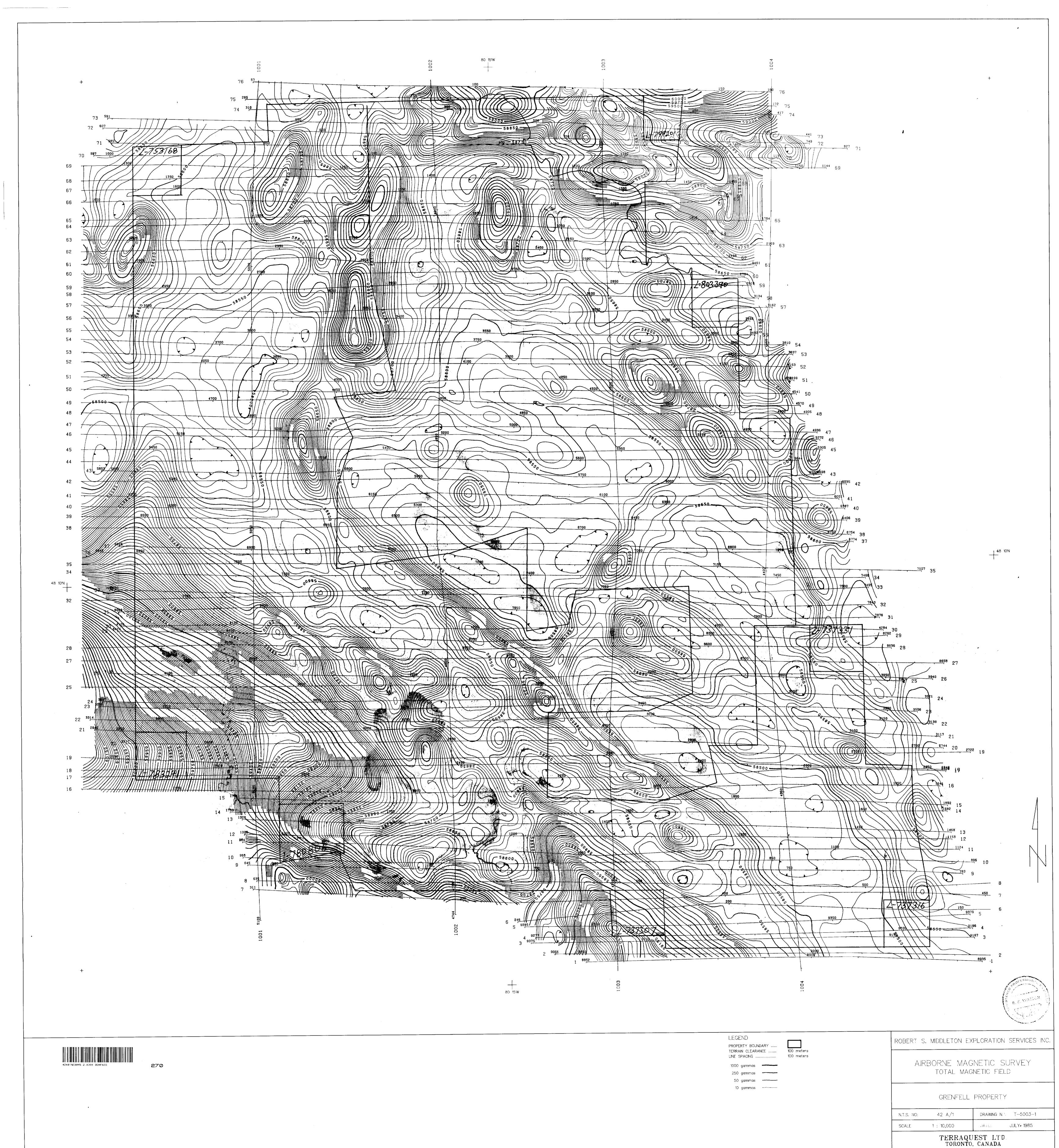
DATE DEC 2511, 1972 WHITNEY BLOCK QUEEN'S PARK, TORONTO

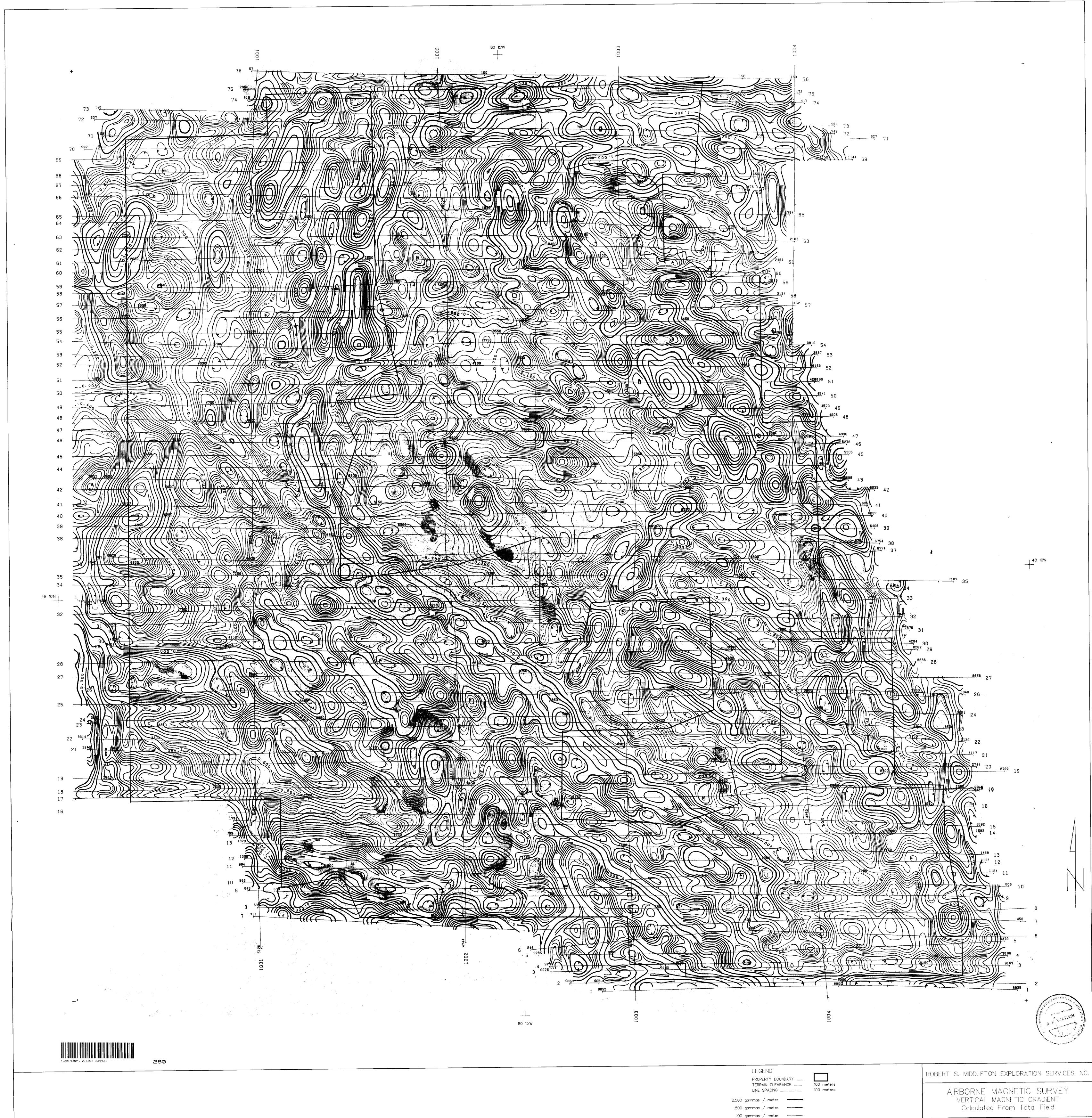
M.1141





M.330 **ONTARIO** MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH PLAN OF DIVISION. LAKE MINING LARDER DISTRICT OF TIMISKAMING - Scale, 40 chains to an inch-T'WP. LEE 4 m Gould Lake 3 m. 80.00 80.00 80.00 80.00 1753174 | 753189 | 753169 753176 753173 753170 4 MINE יו הצדו בדוצרו דדונדר 783223 783222 793221 183224 1783225 179322 753224 183226 1793227 Teneral Tenent Joy & LITTLE SARSFIELD LAKE 703257 705250 783 0 200 733231 LAKE 803563 803562 11832 808 495 Bompas 12 114. Lake 16.71. BURT T'WP. Notes. Non- perennial streams Railways shewn .. C.5. SALE CROWN Bridges ___ Paved Loc Buildings LOCATED LAND Gravel M.R.O. Swamps Highway Route No! Areas marked 8 MINING RIGHTS Ofher Rbads .. S.R.O. SURFACE RIGHTS ONLY Leosed Trails & Paths held under C. CANCELLED Telephone + Telegraph Lines ____ = Licence . of .- Occupation 400' Surface rights reservation around all lakes and rivers. 260





TERRAQUEST LTD. TORONTO, CANADA

GRENFELL PROPERTY

DRAWING NO. T-5003-2

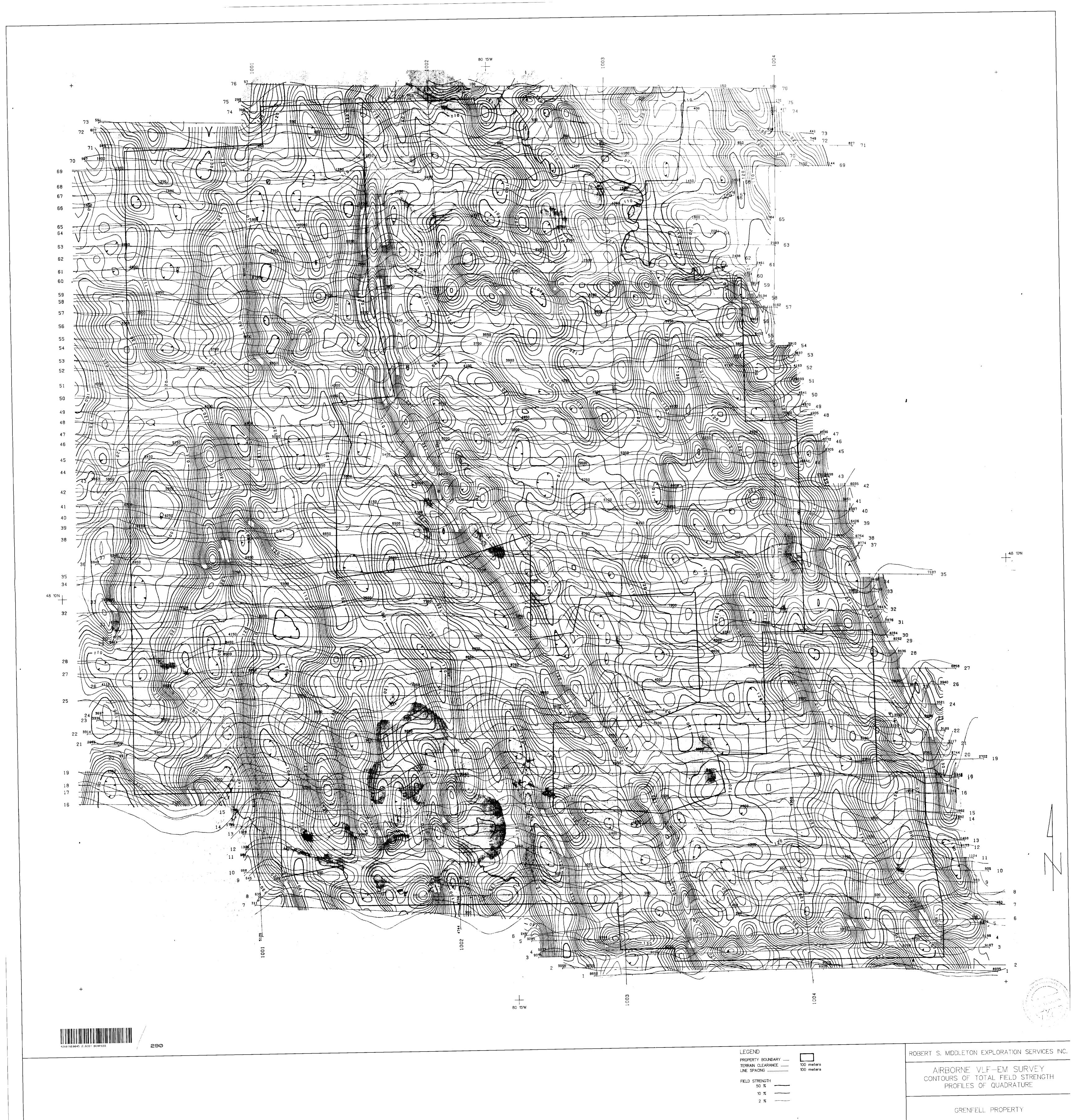
DAȚE: JULY 1985

42 A/1

1 : 10,000

N.T.S. NO:

SCALE



QUADRATURE

+10% -10%

DRAWING NO. T-5003-3

DATE: JULY 1985

N.T.S. NO:

SCALE

1 : 10,000

TERRAQUEST LTD. TORONTO, CANADA

