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A-529

REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY MALLARD TOWNSHIP PORCUPINE MINING DIVISION, ONTARIO

for

WEACO RESOURCES LTD.

RECEIVED

APR 7 1986

MINING LANDS SECTION

by

TERRAQUEST LTD. Toronto, Canada

February 4, 1986





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LIST OF MAPS IN JACKET

No.	A-529-1	, Tot	al M	lagnet	tic	Fiel	đ
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No. A-529-2, Vertical Magnetic Gradient No. A-529-3, VLF-EM Survey

No. A-529-4, Interpretation



- 1 -

1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Weaco Resources Ltd., 805-475 Howe St. W., Vancouver, B.C. V6C 2B3 by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on June 9, 1985 and the data processing, interpretation and reporting from November 15, 1985 to February 4, 1986.

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.

THE PROPERTY

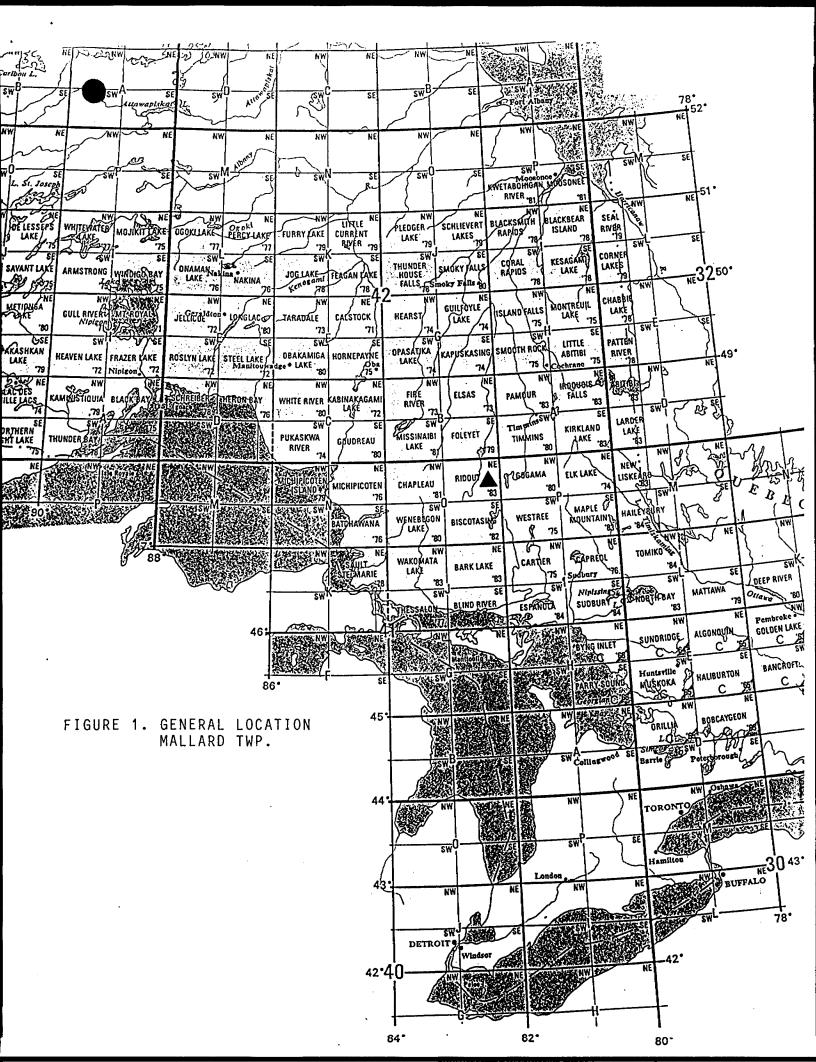
The property is located in Mallard township, in the Porcupine Mining Division of Ontario about 40 kilometers west of the town of Gogama and 85 kilometres east of Chapleau. The claims occur in several blocks as shown in figure 2 although the data are plotted contiguously onto one map per data type. The claims lie in the eastern third of the township and can be reached by logging roads from the Jerome Mine Road to the southwest.

The latitude and longitude are 47 degrees 42 min., and 82 degrees 14 min. respectively, and the N.T.S. reference is 410/9.

The claim numbers are shown in figure 2 and listed below:

P.826498-826510	(13)			
P.826516-826517	(2)			
P.837238-837254	(17)			
P.837258-837276	(19)			
P.837284-837286	(3)			
P.837288-837289	(2)			
P.837301-837302	(2)			
P.837318-837330	(13)			
P.837342-837360	(19)			
P.837889-837892	(4)94	claims	total	





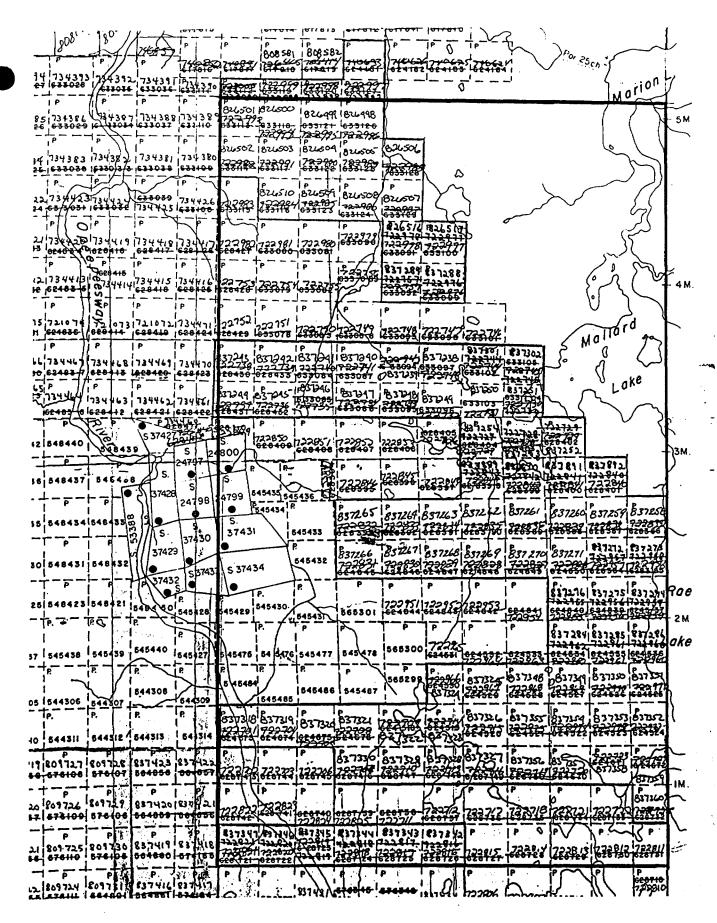


FIGURE 2. SURVEY AREA, CLAIMS MAP MALLARD TWP. PROPERTY

-2-

3. GEOLOGY

Map References

- 1. Map P.2342: Mallard Township. scale 1:15,840, O.G.S. 1980
- 2. Map 44g: Opeepeesway Lake Area. scale 1:63,360, O.D.M., 1935
- 3. Map 2352: Chapleau. scale 1:250,000, O.D.M., 1976

The main lithological units trend to the northwest. They progress from intermediate and mafic volcanics in the southwest corner to increasing proportions of dioritic intrusives across the centre to granitic intrusives in the northeast corner around Mallard Lake. Exposures are almost nonexistent over the felsic intrusives, hence the contacts are poorly defined.

Two occurrences of gold are mapped in the volcanics on the adjacent patented claims to the west.

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:

0.5 gamma

Accuracy:

One gamma

Cycle time:

One second

Range:

20000 - 100000 gammas in 23 overlapping

steps

Gradient tolerance: Up to 5000 gammas per meter

Model:

GSM-8BA

Manufacturer:

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:

Reading interval:

1/2 second



Model:

TOTEM 2A

Manufacturer:

Herz Industries, Toronto

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

Other instruments are:

. King KRA-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: 100 meters
b) Line direction: 360 degrees
c) Terrain clearance: 100 meters

d) Average ground speed: 156 km/hr.

e) Data point interval:

Magnetic: 42 meters VLF-EM: 21 meters

f) Tie Line interval: 2 kilometers

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

i) Line km over total survey area: 360

j) Line km over claim groups: 170

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.
- 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.

Suite 905, 121 Richmond Street West, Toronto, Canada, M5H 2K1, Telephone (+16) 869-0010

T E R R A Ó U E S T DTE 09 01 85 TM 12 28 20# 8Y: M.M. ACFT C-FAKK PN 8437 FLTN 051

PROG. VER. 280184-6RAD. SURALT 100H

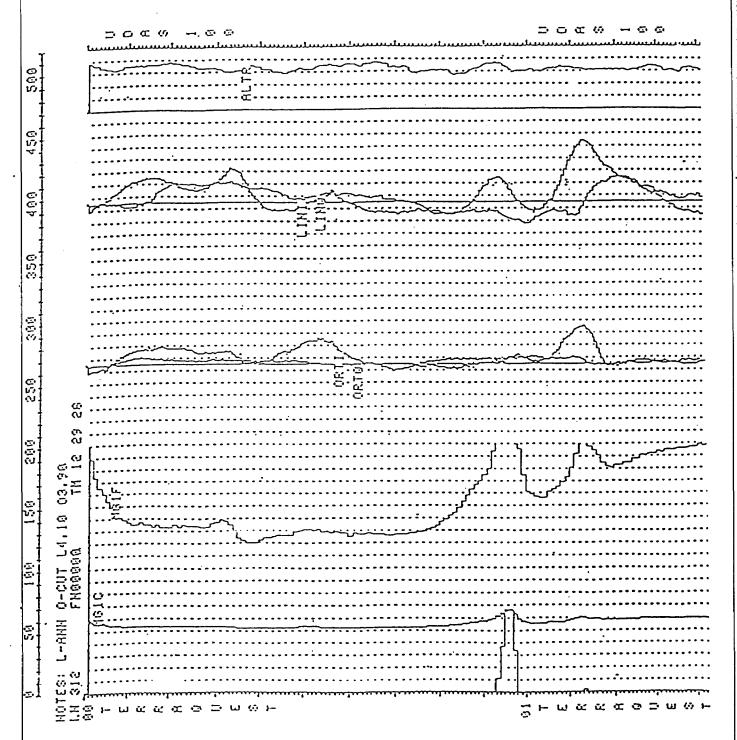


FIGURE 3. SAMPLE OF ANALOGUE DATA



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 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 has 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.

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 company.

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

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

- Grant, F.S. and Spector A.; 1970; Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35
- 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.



distinguished from the intermediate to mafic volcanics (Unit 1, the locations of Unit 2 being based solely on the geological maps.

Some volcanic horizons possess enhanced magnetic trends and have been interpreted as hypabyssal felsic volcanics (Unit 2h) or as subunits (Unit 1m) of the intermediate to mafic volcanics. These may be related to disseminated sulphides such as pyrrhotite or increased proportions of mafic constituents. As the magnetic activity of Unit 1m increases it becomes difficult to discriminate from weaker or thinner trends of Unit 4.

The felsic batholithic rocks (Unit 6) coincide with moderately low magnetic responses. The contact is difficult to pinpoint due to magnetic overwhelming by the dykes and gabbroic intrusives, and the gradational nature of the contact.

Faults that displace magnetic stratigraphy trend primarily to the north and are relatively continuous. Fewer, shorter faults trend to the northeast. Faults or shear zones parallel to magnetic trends would be difficult to detect.

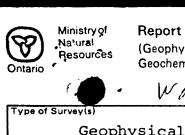
Several long, formational-type VLF-EM conductor axes occur parallel to magnetic stratigraphy. These possess reasonable potential for sulphide origins within the bedrock and should be investigated on the ground by EM or I.P. methods. Alternatively they may be related to overburden especially in areas of depressed topography, or to graphitic zones. Northeast trending conductor axes may be related to fault systems.

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.

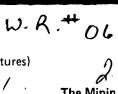
TERRAQUEST LTD.

Charles Q. Barrie, M.Sc.



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)





W1606-61.

900

Claim Holder(s)		Cec	erae fourn	ier Joh	n Dallais	Prospecto	r's Licence No.	
	ources Ltd.	m;k	ke Peplin	ier John ski A.Ben	udoin	T-18	46	
Address			•					
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Terraques	t Ltd.			08 06 8		02 86 Mo. Yr.	approx.	
Name and Address of Author (o	f Geo-Technical report)			Day Mo. Y	r. Day	Mo. Yr.	upprox.	
C. Q. Barrie, S	Suite 905, 12	l Rich	mond St	. West. T	oronto	o. Onta	rio M5H	2K1
Credits Requested per Each (Claim in Columns at ri	ght	Mining Clair	ms Traversed (L	ist in num	erical seque	ence)	44.4
Special Provisions	Geophysical	Days per Claim	Mini	ng Claim	Expend.	M	lining Claim	Expend.
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Enter 40 days. (This	- Electromagnetic		10.	See Att	ached	List		
includes line cutting)	Magnetometer					15.18		. [
For each additional survey:	- Radiometric			·			·	
using the same grid: Enter 20 days (for each)	- Other							
Enter 20 days (10) each)	Geological							
	Geochemical		1000			Alahi e		
Man Days	Geophysical	Days per Claim				Si-A		
Complete reverse side	Floring and a second	Claim	Walter Street			and the second second		-
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	- Magnetometer			,				
	- Radiometric			FE	1719	86		
	- Other			BAINING (-	
	Geological			MINING (ands s	ECTION .		
	Geochemical .			· · · · · · · · · · · · · · · · · · ·				
Airborne Credits		Days per Claim				4.57		
Note: Special provisions	Electromagnetic					2.4		
credits do not apply	Liectromagnetic	40			ļ	. 60.8		
to Airborne Surveys.	Magnetometer	40						
	Radiometric			· · · · · · · · · · · · · · · · · · ·	30	ED !		
Expenditures (excludes pow	er stripping)			FEC	ORD	13.14		
Type of Work Performed	and the second			FREC		102	\	
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Instructions						claims co report of	vered by this work.	94
Total Days Credits may be a			F	or Office Use O	nlv	7		0
choice. Enter number of day in columns at right.	s credits per claim select	ea	Total Days C	r. Date Recorded	,	Minip R	profession b	010
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Peb. 10, 1986	corded Holder of Agenty	Signature)	7520	86.4	18	a	m	5
Certification Verifying Repo	ort of Work		\\	1		+)	(/	
I hereby certify that I have a or witnessed same during and	personal and intimate k				of Work ann	exed hereto,	having performed	the work
Name and Postal Address of Per		and the diffe	opoit is ti					
E. A. Gallo, 14	· -	. Drive	e, Isli	ngton, Or	ntario	M9A	1K7	
				Date Certified		Certified	by (Signature)	
				FEB. 10	,1986	1 2	While	
1362 (81/9)						-		

WEACO RESOURCES LTD.

LIST OF CLAIMS TO ACCOMPANY ASSESSMENT WORK SUBMISSION Geophysical- Electromagnetic and Magnetometer

MALLARD TWP., PORCUPINE MINING DIVISION

	lining	Days		lining	Days		Mining	Da
C1	aim No	Credit	C1	laim Nc	Credit		Claim No	Cre
P	826498	80	P	837263	00		D 027245	00
P	826499	80	P	837264	80 80		P 837345	80
P	826500	80	P				P 837346	80
P	826501	80	P	837265	80		P 837347	80
P	826502	80	P	837266 837267	80		P 837348	80
P	826503	80	P	837268	80		P 837349	80
P	826504		P	837269	80		P 837350	80
P	826505	80			80		P 837351	80
Þ	826506	80	P	837270	80		P 837352	80
P	826507	80 80	P P	837271 837272	80		P 837353	80
P	826508	80	P	837273	80 80		P 837354	80
P	826509	80	P	837274	80		P 837355	80
P	826510	80	P	837275	80		P 837356	80
P	826516	80	P	837276	80		P 837357 P 837358	. 80 80
P	826517	80	P	837284	80		P 837359	80
P	837238	80	P	837285	80		P 837360	80
P	837239	80	P	837286	80	•	P 837889	80
P	837240	80	P	837288	80		P 837890	80
P	337241	80	P	837289	80		P 837891	80
P	837242	80	P	837301	80		P 837892	80
P	837243	80	P	837302	80	•	£ 03/032	
P	837244	80	P	937318	80		Total 94	75
P	937245	80	P	837319	80		claims.	, 5
P	837246	80	P	837320	80	,	OZ GZ	
P	837247	80	P	837321	80			
P	837248	80	P	837322	80			
P	837249	80	P	837323	80			•
P	837250	80	P	837324	80			
P	837251	80	P	837325	80			
P	837252	80	P	837326	80			
P	837253	80	p	837327	80			
P	837254	80	P	837328	80			•
P	837258	80	P	837329	80			
P	837259	80	P	837330	80		•	
P	837260	80	P	837342	80			
P	837261	80	P	837343	80			
	837262	80	_	837344	80			
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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 Sur	rvey(s)Geo	physical	- Electromagnetic & I	Magn	etometer
Township o	r Area M	allard T	wp.	[MINING CLAIMS TRAVERSED
Claim Holder(s) Weaco Resources Ltd.					List numerically
Suite 805	, 475 H	owe St.,	Vancouver, B.C. V6C	2B3	
Survey Con	npany_Te	rraquest	Ltd.		See attached list
Author of F	Report C.	Q. Barr	ie, Suite 905 nd St. West, Toronto,		(prefix) (number)
Address of	12 Author	l Richmo		Ont 2Kl	
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survey.			-Radiometric	·	
R .	20 days for		-Other	•	
same grid	l survey usi	ng	Geological	·	
umite Brita	•		Geochemical	1	
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Magnetome	ter		etic <u>40</u> Radiometric		
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		†·····			TOTAL CLAIMS

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

			·	
Number of Stations		Number of	f Readings	
Station interval		Line spaci	ng	
Profile scale				
Contour interval				
Instrument			*	
Accuracy - Scale constant _				
Diurnal correction method		• • \	, o	<u> </u>
Base Station check-in interval	(hours)	,		
Base Station location and value	ue		• •	. 77
	:	\		
		•		
Instrument				
Coil configuration				
Coil separation				
Accuracy				
Method:	Fixed transmitter	☐ Shoot back	☐ In line	Parallel line
Frequency				
Parameters measured		(specify V.L.F. station)		
rarameters measured				
Instrument				
Scale constant Corrections made				
Corrections made				
Base station value and location				
Elevation accuracy				
	·		* •	
Instrument				
Method			equency Domain	
Parameters - On time			•	
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– Delay time _{– – –}				
- Integration tim	e			
— Delay time — Integration tim Power				
Electrode array				
Electrode spacing				
Type of electrode				

INDUCED POLARIZATI

Tristi dittette	Range
Survey Method	-
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrumentBa	ackground Count
Size of detector	
Overburden	
(type, depth — include outcrop map)	
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
AIRBORNE SURVEYS Type of survey(s) VLF Electromagnetic and	Magnetometer
Instrument(s) Herz Totem 2A	Magnetometer
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A (specify for each type of survey) Accuracy 1 %	
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A (specify for each type of survey) Accuracy (specify for each type of survey)	Magnetometer Gem GSM-8BA Proton Precessi
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A (specify for each type of survey) Accuracy 1 % (specify for each type of survey) Aircraft used Cessna 182	Magnetometer Gem GSM-8BA Proton Precessi
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A Accuracy 1 % (specify for each type of survey) Aircraft used Cessna 182 Sensor altitude 100 meters	Magnetometer Gem GSM-8BA Proton Precessi 1 Gamma
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A (specify for each type of survey) Accuracy 1 % (specify for each type of survey) Aircraft used Cessna 182 Sensor altitude 100 meters Navigation and flight path recovery method King KRA-10A Rada:	Magnetometer Gem GSM-8BA Proton Precessi 1 Gamma r Altimeter, Urtel UDAS-100 Da
Type of survey(s) VLF Electromagnetic and Instrument(s) Herz Totem 2A (specify for each type of survey) Accuracy 1 % (specify for each type of survey) Aircraft used Cessna 182 Sensor altitude 100 meters	Magnetometer Gem GSM-8BA Proton Precessi 1 Gamma r Altimeter, Urtel UDAS-100 Da otech Geocam Video Camera.

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 (Nature of Material)	Values expressed in: per cent
Method of Collection	
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	No. (tests
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests
(Includes drying, screening, crushing, ashing)	· · · · · · · · · · · · · · · · · · ·
Mesh size of fraction used for analysis	Name of Laboratory Extraction Method
	Analytical Method
	Reagents Used
	Reagents Used
	General
General	

WEACO RESOURCES LTD.

LIST OF CLAIMS TO ACCOMPANY ASSESSMENT WORK SUBMISSION Geophysical- Electromagnetic and Magnetometer

MALLARD TWP., PORCUPINE MINING DIVISION

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P	826498
P	826499
Ρ	826500
P	826501
P	826502
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P	837240
Р	837241
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Ρ	837244
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P	837892

Total 94 claims

April 7, 1986

Report of Work 61/86

Weaco Resources Ltd Suite 805 475 Howe Street Vancouver, B.C. V6C 2B3

Dear Sirs:

RE: Mining Claims P 826498, et al, in Mallard Township

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

As the assessment "Report of Work" was recorded by the Mining Recorder on February 14, 1986 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 April 15, 1986.

If the material is not submitted to this office by April 15, 1986 we 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,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario H7A 1W3

Telephone: (416) 965-4888

AB/mc

cc: C.Q. Barrie Toronto, Ontario E.A. Gallo Islington, Ontario

Mining Recorder Timmins, Ontario

Encl.

File No 2.9006

Mining Lands Section

Control Sheet

		TYPE OF	SURVEY	 GEOPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE	E Mar
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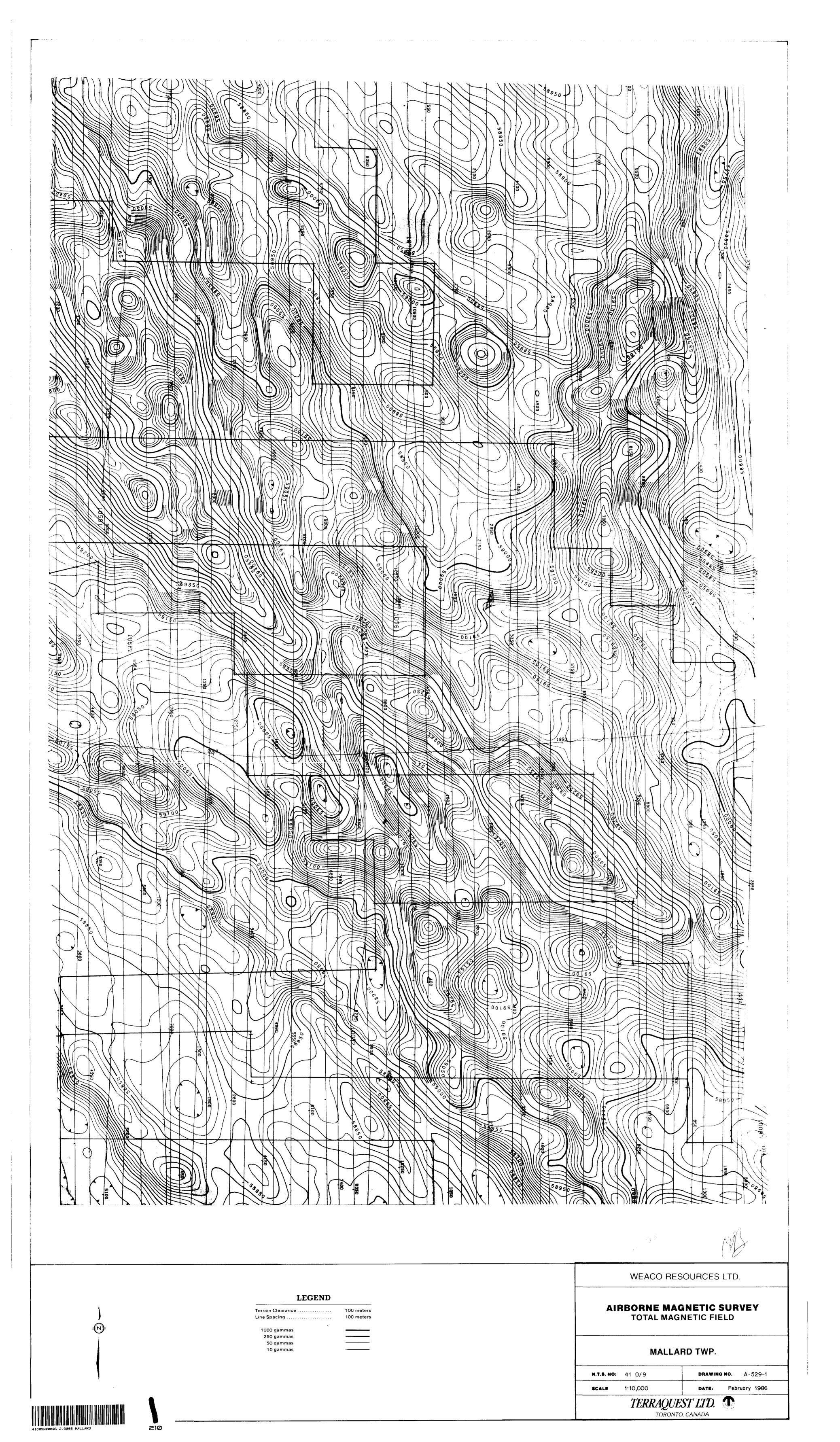
Signature of Assessor

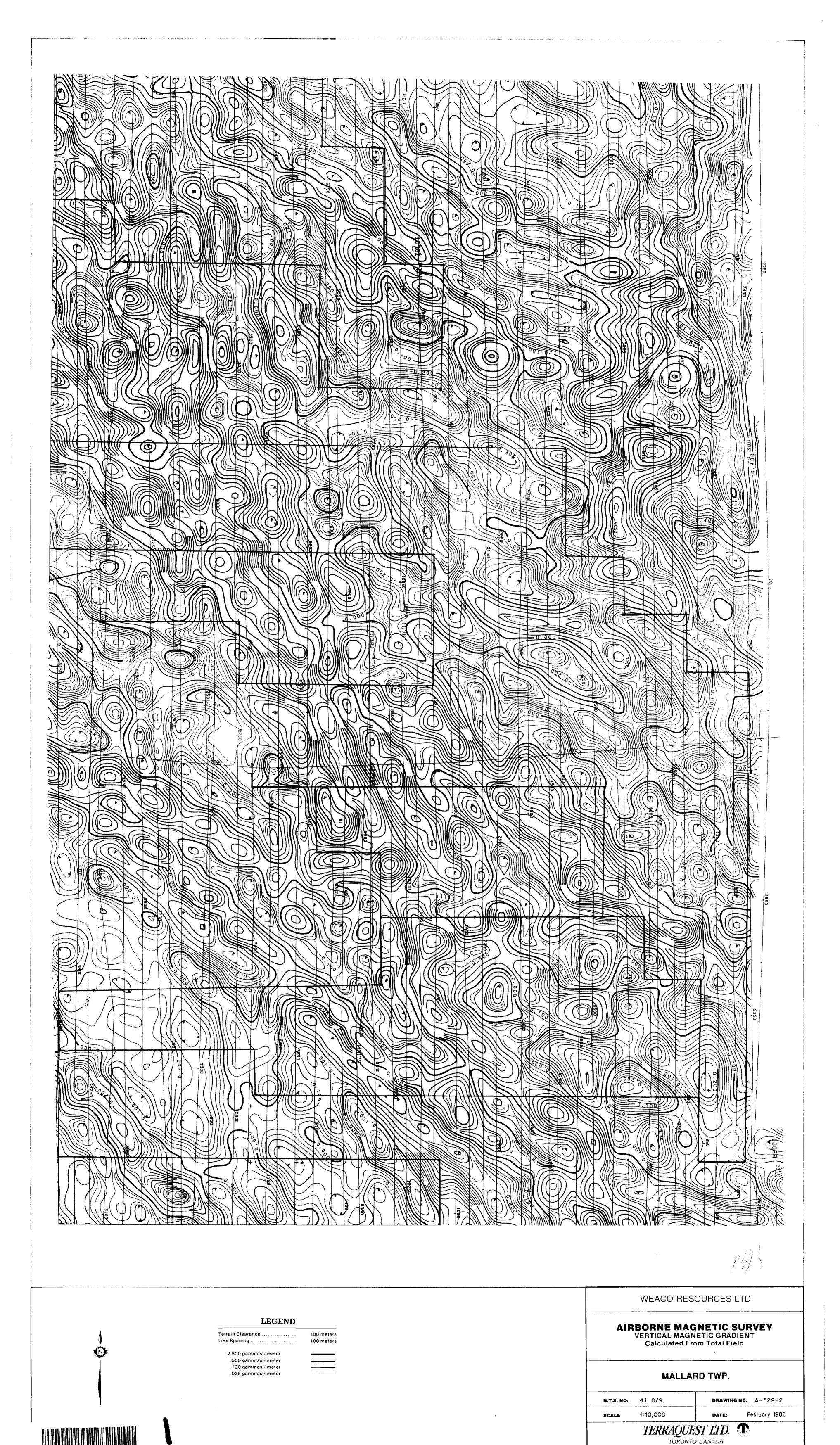
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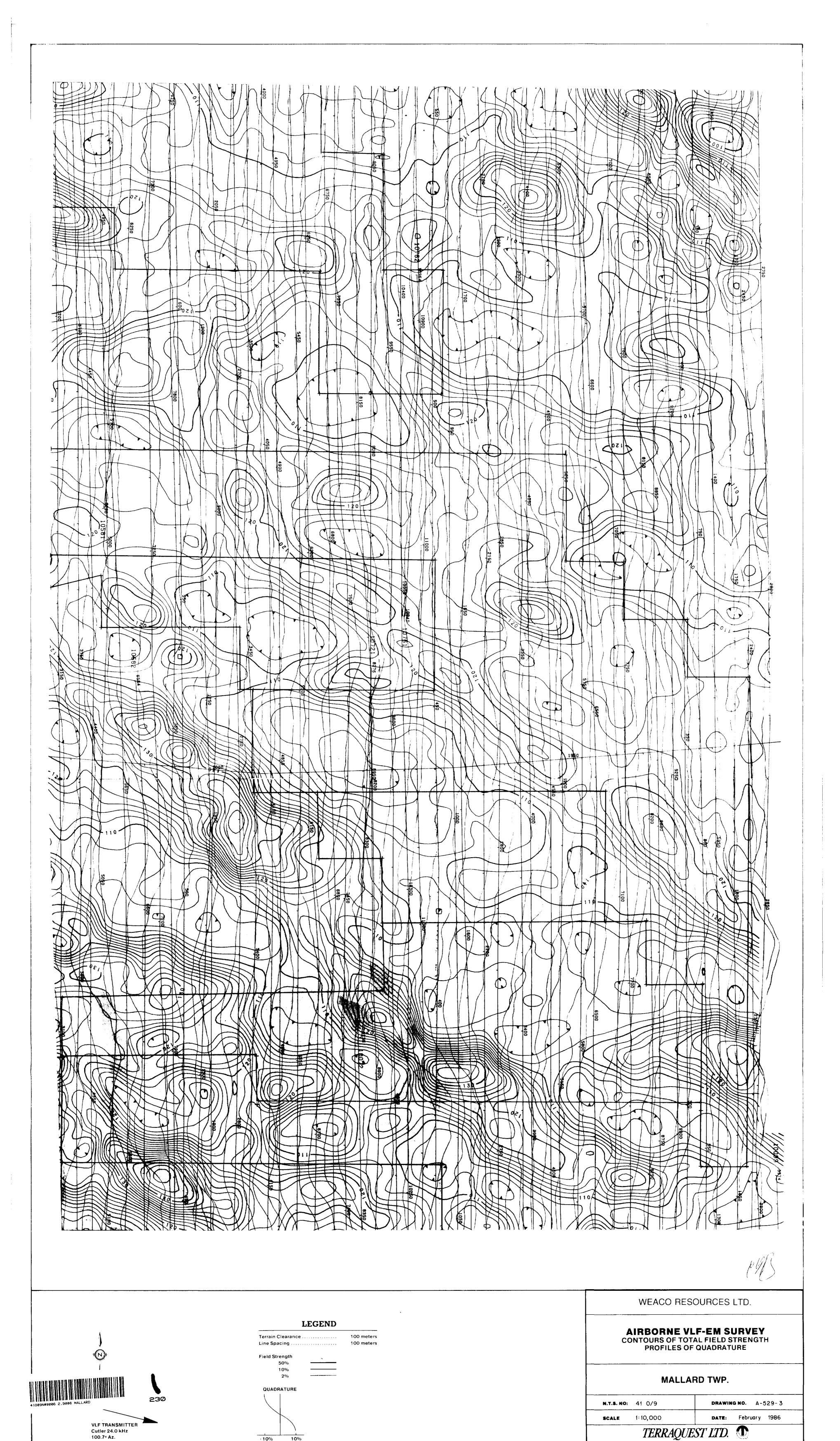
Date

DISPOSITION OF CROWN LANDS		LEGEND
TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS	MARION TWP	GHWAY AND ROUTE No.
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TORONTO, CANADA

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