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

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

for

WEACO RESOURCES LTD.

# RECEIVED

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MINING LANDS SECTION

TERRAQUEST LTD. Toronto, Canada

by

October 4, 1985

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### LIST OF FIGURES

Fig. 1 - General Location Map Fig. 2 - Survey Area Map Fig. 3 - Sample Record

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# LIST OF MAPS IN JACKET

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No.	T-5022-1,	Total Magnetic Field
No.	T-5002-2,	Vertical Magnetic Gradient
No.	T-5022-3,	VLF-EM Survey
No.	T-5022-4,	Interpretation

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### 1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Weaco Resources Ltd. 805-475 Howe St., Vancouver, B.C. V6C 2B3 by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on May 17,1985 and the data processing, interpretation and reporting from May 18 to October 4, 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 Benton township, in the Porcupine Mining Division of Ontario about 50 kilometers west of the town of Gogama. The claims can be reached by logging road from the west to southwest.

The latitude and longitude are 47 degrees 44 min., and 82 degrees 27 min. respectively, and the N.T.S. reference is 41-0/9 & 16.

The claim numbers are: P-622062-622087 (26)P-837439-837441 (3)P-837489-837548 (60)P-837555-837578 (24)P-837581-837588 (8) P-837593-837596 (4)P-837644-837654 (11)P-837909-837915 (7)

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-total 143 claims



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Toronto, Canada, M5H 2K1, Telephone (+16) 869

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3. GEOLOGY

Map References

1. Map: 44g - Opeepeesway Lake Area. scale 1:63,360, O.D.M., 1935

-2-

The survey area has a large proportion of swamps and glacial landforms; outcrops preserve south trending glacial striae. The main suite of rocks underlying the claim group is the Keewatin volcanic group comprised of grey andesitic and basaltic lavas, light grey tuff and agglomerate. Poorly banded iron formations with pyrite replacements occur to the north and south. A band of northwest trending Timiskamian sediments are composed of greywacke and arkose.

Algoman intrusions of quartz diorite, diabase and gabbro-diorite occur as large conformable pods to the north and as small spotty exposures to the south. A large lens of quartz-feldspar-porphyry occurs toward the east centre of the area along the north edge of Woman River.

Rare exposures of Matachewan diabase dikes occur throughout the area; differentiation between the Matachewan and Algoman diabase dikes can be problematic.

Regional north-northwest to north-northeast faults displace lithologies up to one kilometre horizontally.

### 4. 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					

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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: 1/2 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: 340 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. Terrain clearance: Portions of line which were flown above 125 b) meters for more than one km were reflown if safety considerations were acceptable. Diurnal magnetic variation: Less than twenty gammas deviation from c) a smooth background over a period of two minutes or less as seen on the base station analogue record. Manoeuvre noise: d ) Approximately +/-5 gammas.

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West,

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FIGURE 3. SAMPLE OF ANALOGUE DATA

### 4.4 Photomosaics

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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.

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.

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.

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### 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 has a relief of about 800 gammas, the strongest response being over the west trending, weakly banded iron formations to the south and the iron formations and mafic intrusives to the north. Magnetic dikes, mostly unit 8 (Algoman) and minor unit 11 (Matachewan) trend 310 and 340 degrees and cross-cut the stratigraphy.

The wide low-magnetic zone cutting across the centre of the area (map # 1) is attributed to a decreased proportion of magnetic dikes

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and iron formations. The exposure of quartz-feldspar-porphyry which occurs in this zone cannot be mapped reliably by magnetic techniques. However it's geologically mapped location has been included on the interpretation map as it does coincide vaguely with a form of intermediate magnetic character.

The spotty nature of the vertical gradient data map is derived from numerous displacements by north-northeast trending faults and to a lesser degree by north-northwest trending faults. An extensive linear magnetic-low zone, observed on both magnetic maps extends from the southeast to northwest corners of the property. This feature which appears to weaken or partially obiliterate several other magnetic trends, and which itself is displaced by later faulting, is interpreted to be a broad shear zone with a dominant dextral motion.

The Timiskamian sediments cannot be readily detected by the magnetic data as they generally possess very little to no magnetic response and they are magnetically overwhelmed by the adjacent iron formations and diabase dikes.

Numerous strong and moderate strength VLF-EM conductor axes parallel the general magnetic stratigraphy and are often displaced by or terminated against faults.

Anomalies which conform exactly to the outline of swamps or lakes can, in the first analysis, be attributed to conductive overburden and placed in a low priority for follow-up. This does not mean they should be discarded for intensive investigations. Those not related to overburden alone and conforming to stratigraphic trends or faults can be considered as possible conductive material in bedrock such as sulphide minerals or graphite. These are recommended for ground follow-up by electromagnetic or induced polarization methods.

# 7. SUMMARY

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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 have potential sulphide origin and have been recommended for additional investigation.

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Charles Q. Barrie, M.Sc. Geologist





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# LIST OF CLAIMS TO ACCOMPANY

# ASSESSMENT WORK SUBMISSION - GEOPHYSICAL-AIRBORNE EM & MAG SURVEYS

# BENTON TWP., PROCUPINE MINING DIVISION

Μ	lining	Days	Mining	Days	Mining	Days
Cl	aim No	Credit	Claim No	Credit	Claim No	Credit
Ρ	622062	80	P 837500	80	P 837540	80
P	622063	80	P 837501	80	P 837541	80
P	622064	80	P 837502	80	P 837542	80
P	622065	80	P 837503	80	P 837543	80
Ρ	622066	80	P 837504	80	P 837544	80
P	622067	80	P 837505	80	P 837545	80
P	622068	80	P 837506	80	P 837546	80
P	622069	80	P 837507	80	P 837547	80
P	622070	80	P 837508	80	P 837548	80
Ρ	622071	80	P 837509	80	P 837644	80
Ρ	622072	80	P 837510	80	P 837645	80
Р	622073	80	P 837511	80	P 837646	80
P	622074	80	P 837512	80	P 837647	80
P	622075	80	P 837513	80	P 837648	80
Ρ	622076	80	P 837514	80	P 837649	80
Ρ	622077	80	P 837515	80	P 837650	80
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P	622079	80	P 837517	80	P 837652	80
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Ρ	837499	80	P 837539	80		



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# 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>Geo</u>	physical	- Electromagne	tic & Mag	gnetometer
Township o	or AreaBen	ton Twp.			MINING CLAIMS TRAVERSED
Claim Hold	er(s) <u>Weac</u>	o Resour	ces Ltd.		List numerically
Suite 80	)5, 475	Howe St.	, Vancouver, B.	C. V6C 21	33
Survey Con	npany <u>Ter</u>	raquest	Ltd.		See, attached list
Author of I	Report C.	Q. Barri	e, 121 Richmond	St. West	(prefix) (number)
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# WEACO RESOURCES LTD.

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# LIST OF CLAIMS TO ACCOMPANY

ASSESSMENT WORK SUBMISSION - GEOPHYSICAL-AIRBORNE EM & MAG SURVEYS

# BENTON TWP., PROCUPINE MINING DIVISION

Ρ	622062	P	837500	Р	837540
P	622063	Ρ	837501	Р	837541
Ρ	622064	Ρ	837502	Р	837542
Ρ	622065	Ρ	837503	Р	837543
Ρ	622066	Ρ	837504	Р	837544
Р	622067	Ρ	837505	P	837545
Ρ	622068	Ρ	837506	P	837546
Ρ	622069	Ρ	837507	Р	837547
Ρ	622070	Ρ	837508	Р	837548
Ρ	622071	Ρ	837509	P	837644
Ρ	622072	Ρ	837510	Р	837645
Ρ	622073	Ρ	837511	P	837646
Ρ	622074	Ρ	837512	P	837647
Ρ	622075	Ρ	837513	Р	837648
Ρ	622076	Ρ	837514	P	837649
Ρ	622077	Ρ	837515	P	837650
Ρ	622078	Ρ	837516	P	837651
Ρ	622079	Ρ	837517	P	837652
Ρ	622080	Ρ	837518	P	837653
Ρ	622081	Ρ	837519	P	837654
Ρ	622082	Ρ	837520	Р	837909
Ρ	622083	Ρ	837521	P	837910
Ρ	622084	Ρ	837522	Р	837911
Ρ	622085	Р	837523	Р	837912
Ρ	622086	Ρ	837524	P	837913
Ρ	622087	Ρ	837525	P	837914
Ρ	837439	Ρ	837526	P	837915
Ρ	837440	Ρ	837527	The second se	
Ρ	837441	Ρ	837528	101	Laima
Ρ	837489	Р	837529	C.	Laims
Р	837490	Ρ	837530		
Ρ	837491	Ρ	837531		
Ρ	837492	Ρ	837532		
₽	837493	Р	837533		
Ρ	837494	Р	837534		
Ρ	837495	Р	837535		
Ρ	837496	Р	837536		
Ρ	837497	Ρ	837537		
P	837498	Р	837538		
₽	837499	Р	837539		

e.,

# SELF POTENTIAL

Instrument	Range
Survey Method	

Corrections made\_\_\_\_\_

# RADIOMETRIC

Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden(typ	e, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING	ETC.)
Type of survey	
Instrument	
Accuracy	, 
Parameters measured	
Additional information (for understanding resu	alts)

# AIRBORNE SURVEYS

Type of survey(s)	VLF	Electromagne	etic	and		Magne	tometer		
Instrument(s)	Her	z Totem 2A			Gem	GSM-8BA	Proton	Prec	ession
mstrument(s)			(specify for eac	h type of survey)	<u></u>				
Accuracy	1%		· · · · · · · · · · · · · · · · · · ·			<u>l Gam</u>	na		
Aircraft used	Ces	sna 182	(specify for eac	h type of survey)					
Sensor altitude	100	meters							
Navigation and fli	ght pa	th recovery metho	<u>d King K</u>	RA-10A Rad	lar alt	imeter, N	Urtec U	DAS-1	.00
data process	or w	ith digidata	9 track	recorder,	and g	eotech g	eocam v	ideo	<u>cam</u> era,
Aircraft altitude_	10	0 meters			Line Spaci	ing10	0 meter	S	
Miles flown over t	otal a	Approx.	150		Over claim	ap	prox. 1	10	

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken\_\_\_\_\_

١

Total Number of Samples							
Type of Sample	Values expressed in: 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 (test	ts)					
Sample Depth	Extraction Method						
Terrain	Analytical Method	—					
	Reagents Used						
Drainage Development	Field Laboratory Analysis						
Estimated Range of Overburden Thickness	No. (tes	ts)					
	Extraction Method	—					
•••••••••••••••••••••••••••••••••••••••	Analytical Method						
	Keagents Used						
SAMPLE PREPARATION	Commercial Laboratory (tes	ts)					
Mesh size of fraction used for analysis	Name of Laboratory         Extraction Method         Analytical Method						
	Reagents Used						
General	General	_					
Och Chai							
		—					
· · · · · · · · · · · · · · · · · · ·		-					

# File No 28890

# Mining Lands Section

Control Sheet

IVPR ... CU... EY \_\_\_\_ GEOPHYSICAL

GEOLOGICAL

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.

GEOCHEMICAL

\_\_\_ EXPENDITURE

# MINING LANDS COMMENTS:

< Benton



Signature of Assessor

Date

March 24, 1986

Your File: 60-86 Our File: 2.8890

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

Dear Sir:

RE: Notice of Intent dated Narch 6, 1986 Geophysical (Electromagnetic & Magnetometer) Surveys on Mining Claims P 622062, et al, in Benton Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor Nining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

DK/mc

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

> Mr. G.H. Ferguson Mining & Lands Comm. Toronto, Ontario

E.A. Gallo 148 Allanhurst Drive Islington, Ontario M9A 4K7 Resident Geologist Timmins, Ontario

Terraquest Ltd Suite 905 121 Richmond Street West Toronto, Ontario N5H 2K1 Attention: C.Q. Barrie



Ministry of Northern Development

٠.,

and Mines

	File
	2.8890
Date	Mining Recorder's Report of Work No.
March 6, 1986	60-86

Recorded Holder	
Township or Area WEACO RESOU	RCES_LTD
BENTON TOWN	SHIP
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	
Magnetometer 40 days	P 622070 to 87 inclusive 837439 to 41 inclusive
Radiometric days	837489 to 548 inclusive 837644 to 54 inclusive
Induced polarization days	837909 to 15 inclusive
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 Airborne 🔀	
Special provision 🗌 Ground 🗌	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following	mining claims
No creats have been allowed for the following mining	
not sufficiently covered by the survey	X insufficient technical data filed
P 622062 to	69 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



much 19/86

Ministry of Northern Development and Mines

March 4, 1986

Your File: 60-86 Our File: 2.8890

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

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416)965-4888 SK/mc Encl.

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

> Mr. G.H. Ferguson Mining & Lands Comm. Toronto, Ontario

E.A. Gallo 148 Allanhurst Drive Islington, Ontario M9A 4K7

Terraquest Ltd Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1 Attention: C.Q. Barrie



Ministry of Natural Resources

> Notice of Intent for Technical Reports

March 6, 1986

2.8890/60-86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued. TP.











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Ministry of Natural	Report of Work	).R.#	060/86		structions: — —	Please type o If number o	or print. of mining claim	ms traversed
-Resources	Geochemical and Expend	itures)	2.5°	10	Note:	exceeds space Only days "Expenditure in the "Exp	e on this form, credits calcula is" section ma bend. Days Ci	attach a list. ated in the y be entered r." columns.
vne of Survey(s)			I ne wiining Act		- Townshin	Do not use sh	aded areas beig	
Geophysical	- Electromagnet	-ic & J	Magnetomet	er	Ben	ton Two		
laim Holder(s)				<u> </u>		Prospector's	Licence No.	
Weac	o Resources Lto	1.				T-184	6	
Address Suite 805, 4	75 Howe St., Va	ancouv	er, B.C.	V6C 283	3			
Terrad	uest Ltd.			ate of Survey 7 , 05 , 8	(from & to) 35  04 .	10.85		150 <sup>cut</sup> flow
Hame and Address of Auth C. Q. Barrie	nor (of Geo-Technical report) , Suite 905, 12	21 Ric	hmond St.	W., TO1	conto,	Mo. Yr.   Ontario	M5H 2H	<1
redits Requested per E	ach Claim in Columns at r	ight	Mining Claims	Traversed (I	List in nume	erical sequence	;e)	·
pecial Provisions	Geophysical	Days per	Mining	Claim	Expend.	Mini	ng Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic		Se	e Attac	ned Ui	at	·	
includes line cutting	) - Magnetometer		and the second sec					
Estate to the second second	- Radiometric	[]			<u> </u> −−−−		-•	
<ul> <li>For each additional sur using the same grid:</li> </ul>	vey:		• • • • • • • • • • • • • • • • • • •		┟───┤╵			
Enter 20 days (for e	ach) - Other							
	Geological		27 . 37				16SV	
	Geochemical		the to get and		┼┤		1007	
Man Davs				·	<b>├</b> ───┤			
	Geophysical	Claim	and the support of the second			ا التي في المراجع المر المراجع المراجع	. 88	
Complete reverse side	- Electromagnetic		A second second				9	
and enter total(s) here					TEN			
	- Magnetometer			R	50-	2005	ī	
	- Radiometric			• -	1 - 17	Naan		
	- Other				FED		N E	
	- Other					nc Strin		
	Geological		n in Calina		ING LAN	Y		
	Geochemical			- MI				
Airborne Credits		Days per		·				
		Claim		·	<u> </u> ]			
Note: Special provision	s Electromagnetic	40	An and a second se	•				
to Airborne Surv	ply Magnetometer	40	18 A				τ ω	
					ECOF	NDEY	+ 9	•
	Hadiometric						1 0	
xpenditures (excludes	power stripping)	<u>.</u>				1212		
ype of work Perionined	EGEIVEN				1	1986	-1	
Performed on Claimine	Ł				14521,	T L-	<del></del>	
	FFR 1 4 1986		1.433					anak
				1		1000		a statem
						Par St	لم ا	UP
alculation of Expenditure	a Days Credits	Total			<u>+</u>			<b>#</b>
Total Expenditures	Day	s Credits				<b>ES</b>	/	
\$	÷ 15 =	]				Total numb claims cover	er of mining red by this	107
nstructions	be apportioned at the data	holder's	<u>,</u>		· · · · ·	report of wa	ork. / L	
choice. Enter number of	of days credits per claim select	ed	For	Office Use C	Dnly		14 A	
in columns at right.			Recorded	ate Recorded	, , 1 _ /	Mining Reco	Anle	D
Date Cob 10 1986	Recorded Holder Bridgent	Signature)	8560	ate Approved	as Recorded	Branch Direc	ator /	
Continue Variation	Report of Wark					· · · · · ·	1	
Lertification Verifying	Report of Work		6 the facto and facto		of 18/2-1-	······································		+ho work
or witnessed same duri	nave a personal and intimate k ng and/or after its completion of Person Certifying	and the anr	ne racts set forth nexed report is true.	n the Heport		exed hereto, ha	ving performed	
E. A. Gallo,	148 Allanhurs	t Driv	e Islingto	on, Ont	ario M	19A 4K7		
			T	Date Certified		Cartified by	(Signature)	
				YEB. 10,	1986	er er	1/pag	

# WEACO RESOURCES LTD.

# LIST OF CLAIMS TO ACCOMPANY

# ASSESSMENT WORK SUBMISSION - GEOPHYSICAL-AIRBORNE EM & MAG SURVEYS

# BENTON TWP., PROCUPINE MINING DIVISION

Μ	lining	Days	Mining	Days	Mining	Days
Cl	aim No	Credit	Claim No	Credit	Claim No	Credit
Ρ	622062	80	P 837500	80	P 837540	80
Ρ	622063	80	P 837501	80	P 837541	80
P	622064	80	P 837502	80	P 837542	80
P	622065	80	P 837503	80	P 837543	80
Ρ	622066	80	P 837504	80	P 837544	80
Ρ	622067	80	P 837505	80	P 837545	80
P	622068	80	P 837506	80	P 837546	80
Ρ	6220 <u>69</u>	_ 80	P 837507	80	P 837547	80
P	622070	80	P 837508	80	P 837548	80
P	622071	80	P 837509	80	P 837644	80
Ρ	622072	80	P 837510	80	P 837645	80
P	622073	80	P 837511	80	P 837646	80
P	622074	80	P 837512	80	P 837647	80
P	622075	80	P 837513	80	P 837648	80
P	622076	80	P 837514	80	P 837649	80
P	622077	80	P 837515	80	P 837650	80
P	622078	80	P 837516	80	P 837651	80
P	622079	80	P 837517	80	P 837652	80
Ρ	622080	80	P 837518	80	P 837653	80
Ρ	622081	80	P 837519	80	P 337654	80
Ρ	622082	80	P 837520	80	P 837909	80
₽	622083	80	P 837521	80	P 837910	80
Ρ	622084	80	P 837522	80	P 837911	80
₽	622085	80	P 837523	80	P 837912	80
Ρ	622086	80	P 837524	80	P 837913	80
P	622087	80	P 837525	80	P 837914	80
P	837439	80	P 837526	80	<u>P 837915</u>	80
P	837440	80	P 837527	80	Total 107	8560 Dave
Ρ	837441	80	P 837528	80	claims	Credit
P	837489	80	P 837529	80	CTGTW2	Clearc
P	837490	80	P 837530	80		
₽	837491	80	P 837531	80		
P	837492	80	P 837532	80		
P	837493	80	P 837533	80		
Ρ	837494	. 80	P 837534	80		
₽	837495	80	P 837535	80		
P	837496	80	P 837536	80		
P	837497	80	P 837537	80		
P	837498	80	P 837538	80		
Ð	937/99	80	D 937539	80		

![](_page_30_Picture_0.jpeg)

# 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>Geo</u>	physical	- Electromagn	etic & Ma	agnetometer
Township o	or Area Ben	ton Twp.			- MINING CLAIMS TRAVERSED
Claim Hold	er(s) <u>Weac</u>	o Resour	_ List numerically		
Suite 80	)5, 475	Howe St.	, Vancouver, B	.C. V6C 2	2B3
Survey Con	npany <u>Ter</u>	raquest	Ltd.		See_attached_list
Author of l	Report C.	Q. Barri	e, 121 Richmon	d St. Wes	(prefix) (number)
Address of	Author	uite 905	, Toronto, Ont	<u>. M5H 2K</u>	<u>त</u>
Covering D	ates of Surv	vey <u>May 17</u>	- Oct. 4, 198	5	_
Total Miles	of Line Cu	tr Flown			
Total Miles					-
SPECIAL	PROVISIO				
CREDIT	S REQUES	TED	Geophysical	per claim.	
			-Electromagnetic		
ENTER 4	40 days (inc	cludes	Mognetometer		
line cutti	ng) for first	:	-Magnetometer		
survey.			-Radiometric		
ENTER 2	20 days for	each	Other		
same grid	l survey usi	ing	Geological		
Junic grid			Geochemical		
AIRBORN	E CREDITS	S (Special provis	ion credits do not apply to a	irborne surveys)	
Magnetome	ter <u>40</u>	Electromagn	etic <u>40</u> Radiom	etric	_
		(enter di	ays per claim)	1	
DATE: Fe	eb. 10,	1986SIGNA	TURE:	llo	
			Author of Re	port or Agent	=
			003	4 C	RECEIVED
Res. Geol		Qualif	ications $\underline{\checkmark} \diamond \diamond \diamond$		- FEB 1 1 <b>1986</b>
Previous Su File No	Type	Date	Claim Hold		
	1,000				MITTING LANDS SECTION
•••••		······	• • • • • • • • • • • • • • • • • • • •		
•••••	<b>.</b>			********	•
	ļ	······		•••••	
••••••					.
	ļ	<b>.</b>			.
		•••••••••••••••••			TOTAL CLAIMS 107

**OFFICE USE ONLY** 

# WEACO RESOURCES LTD.

# LIST OF CLAIMS TO ACCOMPANY

ASSESSMENT WORK SUBMISSION - GEOPHYSICAL-AIRBORNE EM & MAG SURVEYS

BENTON TWP., PROCUPINE MINING DIVISION

Ρ	622062	Ρ	837500	Р	837540
P	622063	P	837501	P	837541
Ρ	622064	Р	837502	Р	837542
Ρ	622065	Ρ	837503	Р	837543
Ρ	622066	Р	837504	Р	837544
Ρ	622067	Ρ	837505	Р	837545
Ρ	622068	Р	837506	Р	837546
Ρ	622069	P	837507	Р	837547
Ρ	622070	Р	837508	Р	837548
Ρ	622071	Р	837509	Р	837644
Ρ	622072	Ρ	837510	Р	837645
Ρ	622073	Р	837511	P	837646
Ρ	622074	P	837512	P	837647
Ρ	622075	P	837513	P	837648
Ρ	622076	Р	837514	Р	837649
Ρ	622077	Ρ	837515	Р	837650
Ρ	622078	Ρ	837516	P	837651
Ρ	622079	Ρ	837517	Р	837652
Ρ	622080	Ρ	837518	P	837653
Ρ	622081	Р	837519	Р	837654
Ρ	622082	Ρ	837520	Р	837909
Ρ	622083	P	837521	P	837910
Ρ	622084	Ρ	837522	Р	837911
Ρ	622085	Р	837523	P	837912
Ρ	622086	Ρ	837524	P	837913
Ρ	622087	Р	837525	Р	837914
Ρ	837439	Р	837526	P	837915
Ρ	837440	Р	837527	The second	
Ρ	837441	Р	837528	101	laima
Ρ	837489	Р	837529	6.	Lating
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Ρ	837491	Ρ	837531		
Ρ	837492	Р	837532		
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Ρ	837494	P	837534		
Ρ	837495	Р	837535		
Ρ	837496	Р	837536		
P	837497	Р	837537		
Ρ	837498	Р	837538		
Ρ	837499	Р	837539		

# File No 28890

# Mining Lands Section

Control Sheet

IVPR ... CU... EY GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

# MINING LANDS COMMENTS:

L'si

Signature of Assessor

< Benton

Date

.

March 24, 1986

Your File: 60-86 Our File: 2.8890

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 257

Dear Sfr:

RE: Notice of Intent dated March 6, 1986 Geophysical (Electromagnetic & Magnetometer) Surveys on Mining Claims P 622062, et al, in Benton Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Meaco Resources Ltd Suite 805 475 Howe Street Vancouver, B.C. V6C 2B3

> Mr. G.H. Ferguson Mining & Lands Comm. Toronto, Ontario

E.A. Gallo 148 Allanhurst Drive Islington, Ontario M9A 4K7

### Resident Geologist Timmins, Ontario

Terraquest Ltd Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1 Attention: C.Q. Barrie

![](_page_34_Picture_0.jpeg)

	File
	2.8890
Data	Mining Recorder's Report of Work No.
March 6, 1986	60-86

~

Recorded Holder					
Township or Area WEACO RESOUR	CES LTD				
BENTON TOWNSHIP					
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed				
Geophysical					
Electromagnetic 40 days					
Magnetometer days	P 622070 to 87 inclusive 837439 to 41 inclusive				
Radiometric days	837489 to 548 inclusive 837644 to 54 inclusive				
Induced polarization days	837909 to 15 inclusive				
Other days					
Section 77 (19) See "Mining Claims Assessed" column					
Geological days					
Geochemical days					
Man days 🗌 🛛 Airborne 🔀					
Special provision					
Credits have been reduced because of partial coverage of claims.					
Credits have been reduced because of corrections to work dates and figures of applicant.					
Special credits under section 77 (16) for the following r	nining claims				
No credits have been allowed for the following mining c					
not sufficiently covered by the survey	x insufficient technical data filed				
P 622062 to	69 inclusive				

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

![](_page_35_Picture_0.jpeg)

much 19/80

Ministry of Northern Development and Mines

March 4, 1986

Your File: 60-86 Our File: 2.8890

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

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

20

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416)965-4888 SH/mc Encl.

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

> Mr. G.H. Ferguson Mining & Lands Comm. Toronto, Ontario

E.A. Gallo 148 Allanhurst Drive Islington, Ontario M9A 4K7

Terraquest Ltd Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1 Attention: C.Q. Barrie Ministry of Natural Resources

> Notice of Intent for Technical Reports

March 6, 1986

2.8890/60-86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

![](_page_37_Figure_0.jpeg)