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A-513



42H08NE0052 2.8422 NEWMAN

REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY NEWMAN & TOMLINSON TOWNSHIPS LARDER MINING DIVISION, ONTARIO

for GRANDAD RESOURCES LTD.

RECEIVED

SEP 0 5 1985

MINING LANDS SECTION

TERRAQUEST LTD. Toronto, Canada

by

AUGUST 29, 1985

TERRAQUEST LTD.

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L	IST OF MAP	PS IN JACKET	
No. A-513-1, Total Magnetic F No. A-513-2, Vertical Magneti No. A-513-3, VLF-EM Survey No. A-513-4, Interpretation	ield c Gradient		
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1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Grandad Resources Ltd. of Toronto by Terraquest Ltd., 905-121 Richmond Street, West, Toronto, Canada. The field work was performed on June 15, 1985 and the data processing, interpretation, and report writing from June 16 to August 29, 1985.

- 1 -

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 Newman & Tomlinson townships in the Larder Lake Mining Division of Ontario about 75 kilometers northeast of the town of Cochrane and 40 kilometers west of the Ontario-Quebec border. The property can be reached by helicopter from Cochrane and a winter road to the west from Abitibi camp No. 33 at Michel Lake.

The latitude and longitude are 49 degrees 21 min., and 80 degrees 05 min. respectively, and the N.T.S. reference is 42 H/8.

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

3. GEOLOGY

Map References

1. Map 2410: Twopeak Lake, 1:31,680, 0.G.S., 1978

The survey area lies within the Abitibi Greenstone Belt which is composed of mafic to felsic metavolcanics and associated sediments locally cut by diabase dikes.

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FIGURE 2. LOCATION FILE NO.

Diamond drilling carried out to the east (Wilson, 1979) and west (Sharpley, 1984) of the property intersected dacitic flows and tuff, graphitic tuffs, argillite and shale. Concentrations of pyrite and pyrrhotite tend to occur within the dacitic rocks in close proximity to the sediments.

- 2 -

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: Model:	Up to 5000 gammas per meter 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:	1%
Reading interval:	1/2 second
Model:	TOTEM 2A
Manufacturer:	Herz Industries, Toronto

Sharpley, F.J., 1984. Summary report on the Mikwam River property, Newman Township, Larder Lake Mining Division; for Grandad Resources Limited, by Seal River Explorations Limited.

Wilson, B.C., 1979. Geology of the Twopeak Lake Area, District of Cochrane. O.G.S. Report 184.

T<u>ERRAQUEST LTD.</u>



T E R R A O U E S T DTE 09 01 85 TM 12 28 20* BY: M.M. ACFT C-FAKK PN 8437 FLTN 051

PROG.VER.280184-GRAD. SURALT 100M



FIGURE 3. SAMPLE OF ANALOGUE DATA

- 3 -

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

Line spacing: a) 100 meters b) Line direction: 360 degree Terrain clearance: c) 100 meters d) Average ground speed: 156 km/hr. Data point interval: e) Magnetic: 42 meters VLF-EM : 21 meters f) Tie Line interval: 2 kilometers Channel 1 (LINE): q) NAA Cutler, Me., 24.0 kHz Channel 2 (ORTHO): h) NSS Annapolis. 21.4 kHz Line km. over total survey area: 183 i } j) Line km. over claim group: 78

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

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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 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 nonconductive 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 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.

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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.

- 5 -

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 relief over the claim group is about 700 gammas. Upon commencement of the airborne survey an exceptionally strong anomaly was identified south of the actual claim group; consequently, flying was extended to provide adequate coverage. The relief over the entire surveyed area is about 6,200 gammas.

The dominant magnetic feature to the south is interpreted as probable iron formation and have provided the bases for interpreted north-south trending faults. Area D on the interpretation map has a significantly low magnetic response. This may be related to depletion of magnetite within the iron formation (possibly as alteration) or localized reverse polarity of the magnetite.

The remainder of the survey area is characterized by continuous to semicontinuous, stratigraphic magnetic horizons occasionally displaced by faulting and/or diabase dikes. These probably represent areas of increased pyrite-pyrrhotite along dacitic-sediment contacts. Trend A is particularly noteworthy with respect to both a) the continuity across the entire area and b) the pronounced thickening and increased magnetic response in the middle of the map area.

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Most of the VLF-EM conductor axes parallel the magnetic stratigraphy and should be investigated on the gound by conventional EM or IP techniques.

Of particualr importance, Trend A has local coincident and parallel VLF-EM conductor axes.

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

ZEER

R. K. VIATSON

TERRAQUEST LTD.

FESSICA Roger K. Watson,

137EA

Geophysicist

Charles Q. Barrie, M.Sc. Geologist

TERRAOUEST LTD.



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8.1 List of Claims

<u>Claim List for Newman & Tomlinson Property</u> Total of 42 Claims

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

Grandad	Resources	Limited	is the	claim	holder	for th	e following	g claims:
Grandad	Resources	Limited	is the	claim L-8000	holder)80 .)81 .)82 .)83 .)84 .)85 .)86 .)87 .)88 .)89 .)90 .)91 .)92 .)93 .)94 .)95 .)93 .)94 .)95 .)96 .)97 .)98 .)99 .)99 .)99 .)91 .)92 .)93 .)94 .)95 .)96 .)97 .)98 .)99 .)97 .)98 .)99 .)97 .)98 .)99 .)97 .)98 .)99 .)91 .)92 .)93 .)94 .)95 .)96 .)97 .)98 .)99 .)91 .)92 .)93 .)94 .)95 .)96 .)97 .)98 .)99 .)09 .)15 .)16 .)17 .)18 .)18 .)19 .)	for th	e following	ı claims:
				L-8019 L-8019 L-8019 L-8019)15)16)17)18			
				L-8019 L-8019 L-8019	19 20 22 23			
				L-8019 L-8019 L-8019	24 25 26			
				L-8019 L-8019 L-8019 L-8019	29 30 31			
				L-8019 L-8019 L-8019	32 33 34			
<u>TERRA</u>	QUES	<u>ST Ľ</u>	<i>TD</i> .					



42H08NE0052 2.8422 NEWMAN

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Mining Lands Section

File No 2.8422

Control Sheet

TYPE OF SURVEY _____ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

+ AIRBORNE CERTIFICATE.

< Newman 5, 15 Tomlinson



Jami Kr.

Signature of Assessor

Ort. 22/85

Date

File: 2.8422

1985 10 22

Mining Recorder Ministry of Northern Affairs and Mines 4 Government Road East Kirkland Lake, Ontario P2N 1A2

Dear Sir:

RE: Airborne Geophysical Certificate on Mining Claims L 858240, et al, in Newman and Tomlinson Townships

Enclosed is an Airborne Geophysical Certificate issued under Section 78 of the Mining Act R.S.O. 1980.

Please indicate on your records that the time for performing the first and all subsequent periods of work for claims listed shall fall due one year later than the times prescribed in subsection 1 of Section 76.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

DK/mc Encl. cc: Resident Geologist Kirkland Lake, Ontario Terraguest Limited

Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1 Attention: Roger K. Watson Grandad Resources Limited Suite 709 185 Bay Street Toronto, Ontario M5J 1K6 Attention: Fred J. Sharpley



The Mining Act

Mining Claims (Plasse list)

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L 858240 858243-44 858247-48 858251-52 858257-58 858262 to 67 inclusive



に、8422

HECEIVED LAND MAILAGEMENT BRANCH
037 - 185
PREPARE REPLY
S. C. YUNDT
J. R. MORTON
J. C. SMITH
W. P. BROCK
M. J. HOGAN
D. W. SCOTT
S. KEEN
Return To: R.5643

GRANDAD RESOURCES LIMITED SUITE 1104, 55 YONGE STREET TORONTO ONTARIO M5E 1J4

October 2,1985

Land Management Branch Mining Lands Section Ministry of Natural Resources Rm 6610, Whitney Block Queen's Park Toronto, Ontario M7A 1W3

Att'n: Mr. Ray Pichette

Re: Request for Airborne Geophysical Certificate 29 Claims - Newman & Tomlinson Township L 858240 to L 858268 inclusive Larder Lake Mining Division, Ontario File: 2-8422

Gentlemen:

Further to our telephone conversation on October 2nd; We wish to apply for an Airborne Geophysical Certificate to cover 29 claims that were recorded on September 19,1985. An airborne magnetometer and VLF-EM survey by Terraquest over the original 42 claims covered in excess of 150 % of the original claims. The 15 claims in order of priority are as follows:

> L-858240, L-858243, L-858244, L-858247, L-858248, L-858251, L-858252, L-858257, L-858258, L-858263, L-858266, L-858264, L-858265, L-858262, L-858267.

A sketch of the claims is enclosed.

Thanking you again.

Yours truly,

Grandad Resources Limited

Hupley

Fred J. Sharpley



Ministry of Re	nd Manage port of Work	File	. 80)00 <i>8</i> 0 Im	structions: — —	Please typ If numbe	FF24 e or print. r of mining claim	9 Aught
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Terraquest Limited Day Mo. Yr. Day Mo. Yr. 71								
Name and Address of Author Roger K. Wa	tson, Suite 9	905, 121	Rich	mond St.W.	, Toron	to Or	tario, M5	H 2K1
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Surfaction Verifying Barrar of Work								
E hereby certify that I have or witnessed same during a	a personal and intimate I nd/or after its completion	knowledge of the annex	ne facts set red report is	forth in the Report	of Work annex	red hereto	, naving performed	the work
Name and Postal Address of P F.J. Sharple	erson Certifying ey 2372 Sinc	elair Ci	rcle,	Burlingto	on, Onta	rio I	.7P 3C3	
				Date Certified July %,	1985	Certified	by (Signature).	1
362 - 81 9;	·					<u> </u>		

REGISTERED

August 29, 1985

Report of Work #249

Grandad Resources Limited Suite 709 185 Bay Street Toronto, Ontario M5J 1K6

Dear Sirs:

RE: Mining Claims L 800080, et al, in Newman and Tomlinson 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 10, 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 September 9, 1985.

If the material is not submitted to this office by September 9, 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: Roger K. Watson Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1

cc: Mining Recorder Kirkland Lake, Ontario



Ministry of Natural Resources

2842 File_

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	vey(s)_Ai	rborne V	LE-EM and Magnetomete	<u>r</u>			
Township or Area <u>Newman and Tomlinson</u>				MINING CLAIMS TRAVERSED			
Claim Holder(s) Grandad Resources Limited					_ List numerically		
	Li	<u>cı - T168</u>	5				
Survey Con	npany <u>Te</u>	rraquest	: Ltd				
Author of H	Report <u>Ro</u>	ger K. M	(prenx)	(number)			
Address of	Author <u>St</u>	e 905.1	21 Richmond St.W., To 14-15,1985	oront	D		
Total Miles	of Line Cu	t	(linecutting to office)		L 800080-8001)3 incl.	
			·		L 801915-8019	20 incl.	
SPECIAL CREDITS	. PROVISIO	<u>DNS</u> TED	DAYS per claim		L 801922-8019	27 incl.	
	122020		Geophysical		L 801929-8019	34 incl.	
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837 (5/79)

OFFICE USE ONLY

SELF POTENTIAL

Instrument			Kange	t
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Instrument		<u></u>		
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Height of instrument		<u> </u>	_Background Coun	t
Size of detector				
Overburden	(type, d	lepth — include outcrop :	map)	
<u>OTHERS</u> (SEISMIC, DRIL	L WELL LOGGING E	TC.)		
Type of survey				
Instrument				
Accuracy			_	
Parameters measured				****
Additional information (fo	r understanding results	;)		······································
<u>AIRBORNE SURVEYS</u> Type of survey(s)VLF	-EM and Magnet	ometer		
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AccuracyVLF-EM: -	specify 82	4% at time for each type of survey	<u>constant of 1</u>)	sec.; Mag: - 1 gamma
Aircraft used			······································	
Sensor altitude 100 m Navigation and flight path	recovery method <u>vi</u>	sual on phot	o mosaics of	the survey area
Aircraft altitude 100 m			_Line Spacing	100 m
Miles flown over total area	260 line km		_Over claims only_	71 line km

LIST OF CLAIMS

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\mathbf{L}	800080	L801915	L801922	L801 929
\mathbf{L}	800081	l801916	L801923	L801930
\mathbf{L}	800082	L801917	L801924	L801931
L	800083	L801918	L801925	L801932
\mathbf{L}	800084	L801919	l801926	L801933
L	800085	L801920	L80 1 927	L801934
L	800086			
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