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Mining Lands Section

File No 28344

Control Sheet

TYPE OF SURVEY _____ GEOPHYSICAL GEOLOGICAL

GEOCHEMICAL

BXPENDITURE

MINING LANDS COMMENTS:

avid LK. + Purkasking River

SAurst

Signature of Assessor

Oct 16/85

Date

T-5004

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

REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY PUKASKWA RIVER AREA SAULT STE MARIE MINING DIVISION, ONTARIO

for

WASABI RESOURCES LTD.

RECEIVED

AUG - 8 1985

MINING LANDS SECTION

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TERRAQUEST LTD. Toronto, Canada

by

AUGUST 7, 1985

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No.	T-5004-1, Total Ma	ignetic Field		
No.	T-5004-2, Vertical T-5004-3 VIE-EM S	magnetic oradient Survey		
NO.	T-5004-4. Interpre	etation		

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1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Wasabi Resources Ltd. of Toronto by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on May 1, 1985 and the data processing, interpretation and reporting from May 2 to Aug 7, 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 David Lakes Area, in the Sault Ste. Marie Mining Division of Ontario about 60 kilometers west of the town of Wawa, and about 20 kilometers up the East Pukaskwa River from lake Superior. It can be reached by aircraft from Wawa.

The latitude and longitude are 48° 10', and 85° 35' respectively, and the N.T.S. reference is 42 C/4.

The claim numbers are SSM 771449-450, 779377-400, 809801-900, 827368, 843124-127, 843134-137.

3. GEOLOGY

Map References

1. Map 2332, Pukaskwa River, O.D.M., 1976. 2. Map 2333, University River, O.D.M., 1976

The main suite of rock types underlying the claim group is a band of metasediments flanked on each side (ie. to the north and south) by earlier volcanics. It is part of a 50 km. arc-shaped greenstone belt lying on the north shore of Lake Superior containing a number of base metal and gold occurrences. Some exposures of diabase dykes are seen trending approximately N 60 W and northeast.

4. SURVEY SPECIFICATIONS

4.1 Instruments

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Sunce 905, 121 Rachmond Mirver West, Toromuo, Canada, MSH 2K1, Telephone (+16) - 2 -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 One second Cycle time: 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 coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are: 1% 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 100 meters a) Line spacing: 0 degrees b) Line direction: 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: 445 i) Line km over claim group: 425 TERRAOUEST LTD.

T E R R A O U E S T DTE 09 01 85 TH 12 28 20# BY: M.H. ACFT C-FAKK PN 8437 FLTH 051

PROG. VER. 280184-GRAD. Suralt 1000



FIGURE 3. SAMPLE OF ANALOGUE DATA

4.3 Tolerances

wite 905, 121 Richmond Street 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.

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

. Torvinto, Canada, MSH 2K1, Tekphyne (+16) 809-1810 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.

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

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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 cutline 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.

Broad 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 VLF frequencies. In this case no response from bedrock is seen.

6.2 Interpretation

The total field magnetic data shows about 700 gammas relief over the survey area. There is good correlation between magnetic anomalies and exposures of the contact between granite and mafic volcanics, and exposures of diabase dykes, and these units have been remapped on this basis. A number of new diabase dykes have been interpreted. There is no magnetic distinction between the mafic volcanics, felsic volcanics, and sediments although there are patches in all of these units which are anomalously magnetic. These have been marked with a subscript "m".

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2NI, Telephone (+16)

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Suite 905, 121 An unusual feature is the presence of three long, narrow magnetic lows that cross the property in an northwest direction. Their peak Richm magnetic values are below normal magnetic background. This indicates negative magnetic polarity of the material of which this feature is composed. This condition occurs in iron formation but is somewhat unusual in a dyke-shaped feature such as these one. Two possible identifications are a diabase dyke that has been carbonitised so that No. all magnetic susceptibility has been removed, or one whose polarity is reversed because of intrusion during a period when the geomagnetic field was reversed.

Some faults have been interpreted from lateral displacements of linear magnetic trends

VLF conductor axes appear to conform well with the magnetic pattern indicating that their source is probably in bedrock. Any which are clearly coincident with patches of overburden in bedrock exposures can be attributed to overburden. Others may be caused by sulphide minerals or other conductive minerals and should be followed up on the +16) 869-0010 ground by conventional EM or IP methods.

SUMMARY 7.

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 anomalies are believed to be have potential sulphide origin and are recommended for additional investigation.

OFESSION

TERRAQUEST LTD.

R. K. WATSON Ū Roger K. Watson, в. Geophysicist

TERRAQUEST LTD.



(Linuta

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In the matter of mining claims:	SSM 779314 to 376 inclusive	• •
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On consideration of an application from the recorded holder, <u>V.N. Harbinson</u> under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of <u>Airborne Geophysical Survey</u> assessment work recorded on <u>May 8</u>, 1985. be extended until and including <u>August 8</u>, 1985.

1985.07.04

Copies:

cc: Mining Recorder Sault Ste. Marie, Ontario cc: V.N. Harbinson 111 Richmond Street West Suite 916 Toronto, Ontario M5H 2G4

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cc: Terraquest Suite 1214 111 Richmond Street West Toronto, Ontario M5H 2G4 Attention: C. Barrie

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On consideration of an application from the recorded holder, <u>Wasabi Resources Ltd</u>, <u>Remi Morin</u>, <u>Luc Marois</u> under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of <u>Airhorne Geophysical Survey</u> be extended until and including <u>August 8</u>, <u>1985</u>.

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Copies:

cc: Mining Recorder Sault Ste. Marie, Ontario cc: Wasabi Resources Ltd Suite 916 111 Richmond Street West Toronto, Ontario M5H 2G4 Attention: C.E. Page

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cc: Luc Marois

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- cc: Remi Morin
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 cc: Terraquest
 Suite 1214
 - Terraquest Suite 1214 111 Richmond Street West Toronto, Ontario M5H 2G4 Attention: C. Barrie

D.?. 1333 (85/02)

		Aug 8
Ontario Ministry of Natural Resources Ontario	The Mining Act	Room 6643, Whitney Block Queen's Park Toronto, Ontario M7A 1W3 416/965-4888
In the matter of mining claims:	SSM 809901 to 926 inclusive	

in the Area of David Lake.

On consideration of an application from the recorded holder, <u>Sao Paulo Explorations Inc</u> under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of <u>Airborne Geophysical Survey</u> assessment work recorded on <u>May 8</u>, <u>1985</u> be extended until and including <u>August 8</u>, <u>1985</u>.

1985.07.04

Copies:

Mining Recorder Sault Ste. Marie, Ontario

Sao Paulo Explorations Inc Suite 2314 401 Bay Street Toronto, Ontario M5H 2V4

Signature of Director, Land Management Branch G

R

cc: Terraquest Suite 1214 111 Richmond Street West Toronto, Ontario M5H 2G4 Attention: C. Barrie

1333 (85/02)

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REGISTERED

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June 27, 1985

Report of Work 82-85

V.N. Harbinson 111 Richmond Street West Suite 916 Toronto, Ontario M5H 2G4

Dear Sir:

RE: Airborne Geophysical (Electromagnetic & Hagnetometer) Survey on Mining Claims SSM 779314, et al, in the Area of David Lake

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

As the assessment "Report of Work" was recorded by the Mining Recorder on May 8, 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 July 8, 1985.

If the material is not submitted to this office by July 8, 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,

Grant Le Augurit &

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 Toronto, Ontario Attention: Roger Watson cc: Mining Recorder Sault Ste. Marie, Ontario

REGISTERED

June 27, 1985

Report of Work 83-85

San Paulo Explorations Inc Suite 2314 401 Bay Street Toronto, Ontario M5H 2V4

Dear Sir:

RE: Airborne Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims SSM 809901,to 26 inclusive in the Area of David Lake.

I have not received the reports and maps (in duplicate) for the Ariborne Geophysical Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Hining Recorder on May 8, 1985 the 60 day period allowed by Section 77 of the Hining Act for the submission of the technical reports and maps to this office will expire on July 8, 1985.

If the material is not submitted to this office by July 8, 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,

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S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Untario H7A 1H3 Phone:(416)965-4888

A. Barr:mc

cc: Terraquest Ltd Toronto, Ontario Attention: Roger Watson

cc: Mining Recorder Sault Ste. Marie, Ontario

REGISTERED

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June 27, 1985

Report of Work 84-85

Nasabi Resources Ltd Suite 916 111 Richmond Street West Toronto, Ontario 11511 204

Dear Sirs:

RE: Airborne Geophysical (Electromagnetic & Magnetometer) Survey on Hining Claims SSM 779379, et al, in the Afrea of David Lake

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

As the assessment "Report of Work" was recorded by the Mining Recorder on May 8, 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 July 8, 1985.

If the material is not submitted to this office by July 8, 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,

Gunt August &

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 Toronto, Ontario Attention: Roger Watson
- cc: Hining Recorder Sault Ste. Marie, Ontario

cc: Remi Horir LaSarre, Quebec J9X 165 cc: Luc Marois Guyenne, quebec







	LEG	END	
INTERPRETAT	ION	LITHOLO	GY
······	Contact	8a	Diabase dyke
~~~~~~	Fault	8R	Magnetic low linear unit, see text
<u> </u>	Property Boundary	6	Granite
VLF-EM Conducto	r Axes normal quadrature reverse quadrature in phase only (no quadrature)	3 3m 1a 1m	Sediments Magnetic unit in sediments Mafic Volcanics Magnetic unit in 1a

![](_page_26_Picture_6.jpeg)

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![](_page_27_Figure_0.jpeg)

![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

![](_page_29_Figure_0.jpeg)

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