

42C04SE0016 DAVID LAKES

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REPORT ON AN

AIRBORNE MAGNETIC AND VLF-EM SURVEY

DAVID LAKES AREA

SAULT STE. MARIE MINING DIVISION, ONTARIO

for

DAIWAN ENGINEERING LTD.

RECEIVED

by MINING LANDS SECTION

TERRAQUEST LTD. Toronto, Canada

February 26, 1985

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#### 1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Daiwan Engineering Ltd., 1010-409 Granville, Vancouver, B.C. V6C 1W9 by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed from December 3 to 16, 1985 and the data processing, interpretation and reporting from December 17 to February 26, 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.

#### 2. THE PROPERTY

The property is located in the Area of David Lakes map (claims map M-12), in the Saulte Ste. Marie Mining Division of Ontario about 60 kilometers west northwest of the town of Wawa. The property lies along the southest boundry of the Pukaskwa National Park and can be reached by helicopter from Wawa.

The latitude and longitude are 48 degrees 03 min., and 85 degrees 40 min. respectively, and the N.T.S. reference is 42C/4.

The survey covers 234 claims, filed on Report of Work # 182 with the Mining Recorder.

3. GEOLOGY

Map References

1. Map 2332: Pukaskwa River. scale 1:63,360, O.D.M. 1975

The survey area is underlain by an Early Precambrian sedimentary volcanogenic syncline trending to the east northeast. A narrow band of conglomerates near the axial plane are flanked by thick sequences of

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greywackes, arkoses and fine grained sediments. These in turn are flanked by mafic to intermediate volcanics. Beyond the survey to the east and west the sedimentary sequences are intercalated with felsic and mafic volcanics. The sedimentary - volcanogenic belt is bounded to the north and south by batholithic granitic rocks.

#### 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 subsor 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" cril (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:	Her: 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, Onlario.

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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 a) Channel 1 (LINE): lines 1-9,58-81: NLK Seattle,24.8 kHz. lines 10-57: NAA Cutler, Me., 24.0 kHz h) Channel 2 (ORTHO): NSS Annapolis. 21.4 kHz i) Lina km over total survey area: 443 j) Line km over claim groups: 421

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 47-5 gammas.

#### 4.4 Photomosaics

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

#### 5. DATA PROCESSING

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

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF was not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is

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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 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

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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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 magnetic field has a relief of approximately 550 gammas and shows relatively good resolution of lithologic units, particularly the northwest trending dykes.

The vertical gradient data substantially improves the resolution of most lithologies and is used as the basis for magnetic mapping. The diabase dykes possess a very strong magnetic signature and can be readily detected by their narrow, crosscutting form. Some of the northwest and northeast trending dykes appear to be cut by north trending dykes. Some are often associated with fault displacement.

Zone "D" to the northeast is a similar narrow linear trend but possesses a dramatic magnetic low response. It is interpreted to represent a diabase dyke with reversed polarity.

The volcanic terrain is charaterized by intermediate (Unit 1) to strong (Unit 1m) magnetic response. Unit 1m usually takes the form of narrow stratiform horizons. The enhanced magnetics may be related to (a) the more mafic components including hypabyssal mafic volcanics, (b) disseminated sulphides particularly pyrrhotite or (c) lean iron formation. The magnetic high zone along the southeastern boundry may represent thermal or chemical alteration related to the granitic intrusion.

The granitic suite also possesses a variable magnetic pattern. Relatively low magnetic response zones (Unit 6) surround intensely magnetized horizons and masses (Unit 6m). The stronger magnetic activity may be related to xenoliths of country rock, alteration of the granites or magnetic components within the granitic melt.

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The sedimentary suite exhibits a very low magnetic response. Magnetic activity within the areas geologically mapped as sediments have been interpreted as either diabase dykes or intercalated volcanics. The complexity of the magnetic pattern indicates that the geology is considerably more detailed and intricate than presently mapped.

The VLF-EM data shows numerous very strong well defined conductor axes generally trending to the east northeast. Most of them coincide with magnetically mapped faults and air photo lineaments suggesting a fault related origin. This could include conductive gouge, water saturation or disseminated sulphide mineralization, particularly pyrrhotite. Several conductor axes which coincide with volcanic horizons bear the greatest potential for sulphide origins and should be followed up by detailed mapping and ground EM or I.P. techniques.

#### 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.

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Charles Q. Barrie, M.Sc. Geologist

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AIRBORNE GEOHYSICAL SURVEY CONTRACT

Q-5064 David Lakes Wawa, Ont.

The following specifications Set out the detail of work to be carried out by Terraquest Limited (Contractor) 905-121 Richmond St. West Toronto, Ontario M5H 2K1 for (Client) Daiwan Engineering Ltd., 1010-409 Granville, Vancouver, B.C., V6C 1W9

#### 1. GENERAL

The Contractor hereby undertakes on the terms and conditions hereinafter contained, to use its best efforts to perform for the Client an airborne geophysical survey, hereinafter referred to as the "Survey".

#### 2. SERVICES

The services to be provided by the Contractor in connection with the survey shall include the preparation of mosaics and other data prior to flying, the flying itself and all supervision thereof and the preparation and delivery to the Cliunt of the documents specified in Section 13 of this agreement.

#### **3 SURVEY AREA**

The survey area consists of 234 claims in the David Lakes area of Ontario about 75 km north west of Wawa. The survey will consist of about 408 line kilometers. See Figure #1

#### 4. TIMING

The contract shall commence in early November 1985 and completed as soon as environmental conditions and serviceablity of equipment permits. The preliminary maps can be ready as soon as a week and a half after the flying has been completed. The final drafted VLF/E.M. and magnetic maps will be completed and delivered to the client within eight weeks of survey flying.

#### 5 EQUIPMENT

The survey instruments to be provided by the Contractor for the purpose of the survey are:

- a) A Herz Totem 2A dual frequency V.L.F. electromagnetic system installed in a pod assembly attached to wing pods mounted on a Cessna 182 fixed wing aircraft.
- b) GEM Systems GSM-8BA proton precession airborne magnetometer. Urtec UDAS 100 data aquistion system system with chart recorder for analogue data presentation and nine track tape recorder for digital data storage.

- d) Geotech Datacam Video flight path camera with intervalometer and fiducial marking system.
- e) Radar Altimeter and other necessary naviagational and radio communication equipment.
- f) GEM Systems GSM-8BA proton precession base station magnetometer with analogue chart recorder.
- g) All consumables (chart paper, magnetic video cassettes)
- 6. PERSONNEL

The contractor will supply experienced personnel to execute the Survey, viz: operator/navigator, pilot and dataman and such personnel as necessary to subsequently reduce, compile and report on the data.

#### 7. DATA RECORDING

During the course of the Survey the following data are to be rcorded:

- a) Digital
  - i) The V.L.F. E.M. data, magnetic data, fiducial records, altimeter readings and time will be recorded digitally.
- b) Analogue
  - i) The V.L.F. total field and vertical quadrature component.
  - ii) Total magnetic field strength recorded, at one second intervals, at two different scales (nomially, 200 and 2000nT full scale).
  - iii) A record of terrain clearance as provided by the radar altimeter.
    - iv) A video tape record of the terrain passing below the aircraft as recorded by the Datacam tracking camera
    - v) Time markers impressed sychronously on the video tape and analogue records.

#### 8. ACCEPTABLE DATA AND SURVEY PROCEDURES

Acceptable survey data and procedures will adhere to the specifications set out below and subsequently in sections 9, 10 and 11

- a) Survey flights will be discontinued when persistently
  - unacceptable data are obtained on three consective lines
- b) Reflights will be performed over those portions of lines where specified criteria are not met.

#### 9. FLYING SPECIFICATIONS

It is the Contractors responsibility to ensure that the aircraft crew strives to maintain the following specification. However, the pilot's decision as to safe operating conditions will be binding and reflights need not be undertaken where such conditions produce unacceptable data.

- a) The survey flight direction will be such that it crosses the geological trend at 90 degrees.
- b) The survey flight lines will be spaced intervals indicated in Section #3 of this contract and will not deviate from the intended flight path so as to form a gap larger than twice the line spacing of one kilometer or more.
- c) Magnetic lie lines will be flown perpendicular to the survey lines at two km. intervals, preferably where local magnetic relief is subdued.
- d) The aircraft will fly at an airspeed of 156 Km, per hr or less
- e) Aircraft terrain clearance will be smoothly maintained at 100 meters or less and will not exceed 125 meters over a distance of one kilometer.
- f) Navigation will be done visually on photo mosaics of the survey area.
- g) The survey crew will be grounded during periods when diurnal activity exceeds 20nT over a two minute period.

#### **10. CALIBRATION OF SURVEY INSTRUMENTS**

The altimeter will be calibrated periodically during the survey. The E.M. base level will be established at a high altitude prior to each flight.

#### 11. DATA QUALITY

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- a) The V.L.F. data will exhibit persistent peak-to-peak electronic noise of less than 4% at a time constant of one second. Sporadic noise bursts from atmospheric disturbances will be not more than one per kilometer.
- b) Peak-to-peak noise on the magnetic record will be less than 3nT.
- c) The altitude of the aircraft over flat terrain will be recorded with an accuracy of plus or minus 10%.
- d) The output of the base station magnetometer will be recorded at a time rate and amplitude scale sufficient to define short term magnetic disturbances (nominally, two second intervals and analogue chart scale of one cm. = 10nT).
- e) All analogue data will be legibly recorded. Flight path video will display useable clarity. Fiducal correlations will be maintained.

f) Magnetic levelling to correct for diurnal variation will be carried out in the standard manner utilizing the tie line intersections with the traverse lines.

#### 12. DATA RECOVERY AND ACCESS

- a) A flight path map, based on the navigators manual fiducials and verified by the flight path video tape will be completed as the survey progresses.
- b) The client shall maintain the option to inspect the data in the field and select alternative specifications at their expense. provided adequate prior notification is given to to the contractor.
- c) Digital data tapes will be shipped immediately to Toronto and tape contents listed to ensure requisit fidelity and completeness. Once it has been determined that acceptable digital records have been secured, edititing and computer processing of E.M. and aeromagnetic data will be initiated.

#### 13. DATA PRESENTATION

All maps will be at a scale of 1:10,000 and all base maps are comprised of photomosaics with flight lines and fiducials. The delivery items are as follows:

- a) Total magnetic field contours on a greyflex basemap with four paper copies.
- b) Total magnetic field contours on colour applicon plot, one copy.
- c) Calculated vertical magnetic gradient contours on a greyflex base map. four paper copies
- d) Calculated vertical magnetic gradient contours on a colour Applicon plot, one copy.
- e) Total field contours (2%) of VLF data with quadrature profiles drawn along flight lines on a greyflex base map, four copies.
- f) A report, giving equipment specifications, operational statistics, survey techniques and assessment work interpretation identifying significant conductors, structural features and geological units derived from the magnetic pattern.

#### SURANCE AND LIABILITY

- a) Terraquest Ltd. provides either directly or indirectly insurance coverage for personnel, equipment and damages arising out of the carrying of the survey.
- b) Terraquest Ltd. agrees to save and keep harmless the Client from and against all damages, costs and expenses which the client may sustain, suffer or incur by reason of any act of omission ot Terraquest Ltd. in connection with the performance of the survey.
- c) When the survey data is to be used for assessment credit, Terraquest Ltd. is not held liable for the compliation and filing of the Report of Work Form for the Governmental body involved with mineral exploration assessment credits. Terraquest is willing to assist the client in this aspect.

#### 5. CHARGES

The Client agrees to pay the Contractor for an acceptable airborne survey with coverage encompassing flying, flight line recovery, compilation of VLF-E.N. and aeromagnetic data, and for the drafting of the survey area. The survey includes the lines and two hundred meter over run to achieve the calculated vertical gradient.

16. PAYMENT

Payments will be made as follows:

- a) Payment on signing of contract .....\$5,746.00
  b) Payment on completion of flying.....\$5,746.00
- c) layable on upon delivery of material described in Section 13.....\$5,746.00

\$17.238.00

Exclusive title to the Survey results shall not pass until full payment has been made to the Contractor for its services rendered. The rate of 2% per month is charged for over due accounts

Thursday, September 19, 1985 Dated\_\_\_ Accepted

Dated\_October 11,1985

Daiwan Engineering Ltd.

SIN Terraquest Ltd

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Ontario	Ministry of Northern Development and Mines	Order of the Minister	Mining Act	Mar. 1 & Room 6610, Whitney Block Queen's Park Toronto, Ontario M7A 1W3 416/965-4888
				2.8961
in the m	atter of mining claims:		SSM 753852, et al,	
			in the Area of David Lake	· .
			as listed on Report of Work	
			#182.	

On consideration of an application from the recorded holder, <u>Ruth Ditto</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 (Em. & Mag.)</u> assessment work recorded on <u>December 20</u> 19.85 be extended until and including <u>March 18</u>, 19.86.

1986.02.18 Luce

Ruth Ditto Suite 1010 409 Granville Street Vancouver, B.C. V6C 1W9

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Terraquest Ltd Mining Recorder Suite 905 Sault Ste. Marie, Ontario 121 Richmond Street West Toronto, Ontario M5H 2K1 Attention: C. Barrie

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April 7, 1986

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File: 2.8961

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Ruth Ditto Suite 1010 409 Granville Street Vancouver, B.C. V6C 1M9

Dear Nadam:

RE: Airborne Geophysical (Magnetometer & Electromagnetic) Surveys submitted on Mining Claims SSM 733852, et al. in the Area of David Lake

This will acknowledge receipt of the above-described surveys on March 14, 1986. Enclosed is the VLF plan (in duplicate) for these surveys. In order to complete your submission, please show the perimeter claim numbers on the plans and return them to this office quoting file 2.8961.

For further information, please contact (Mrs.) Susan Hurst 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

SM/DC

cc: Hining Recorder Sault Ste. Marie, Ontario #182/85 C.Q. Barrie Suite 905 121 Richmond Street West Toronto, Ontario M5H 2K1

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Ministry of Northern Development and Mines Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Attention: J.C. Smith, Supervisor Mining Lands Section

Dear Sirs: 8961 Re: File 2.0961 - Airborne Geophysical Survey, David Lake Area

As requested in your letrer of April 7, 1986, the perimeter claim numbers have been inserted on the Airborne Magnetic Survey, Total Magnetic Field map.

Yours truly,

aiwan Engineering Ltd.

April 14, 1986

Consulting Engineers & Geologists

1010 - 409 Granville Street Vancouver, B.C., Canada V6C 1W9 Telephone: (604) 688-1508

DAIWAN ENGINEERING LTD.

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RD:sec

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APR 17 1986

MINING LANDS SECTION

SEE ACCOMPANYING MAP(S) IDENTIFIED AS

## 42C/04SE-0016 #1-3

## LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (x)



FOR ADDITIONAL INFORMATION SEE MAPS: 42C/04SE-0016 #44







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