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REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY CENTRAL PATRICIA, PICKLE CROW AND SOUTH CROW PROPERTIES

PATRICIA MINING DIVISION, ONTARIO

for

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RECEIVED

QUINTERRA RESOURCES INC.

DEC () 1987

MINING LANDS SECTION

by

TERRAQUEST LTD. Toronto, Canada

October 17, 1986

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#### 1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Quinterra Resources Inc. of 1275 Main Street West, North Bay, Ontario P1B 2W7 by Terraquest Ltd., 905 -121 Richmond St. W., Toronto, Canada. The field work was performed on August 24, 1986 and the data processing, interpretation and reporting from August 25 to October 17, 1986.

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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 metres 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 Ponsford, Connell and McCullagh townships, in the Patricia Mining Division of Ontario. The survey area extends from Pickle Lake eastwards beyond Pickle Crow. Highways # 808 and # 646 and numerous bush roads cross the survey area.

The latitude and longitude are 51 degrees 00 minutes, and 90 degrees 00 minutes respectively, and the N.T.S. reference is 520/8&9.

The claim numbers are shown in figure 2.

3. GEOLOGY

Map References

- 1. Map 39a: Pickle Lake Crow River Area. scale 1:63,360. O.D.M.
  1930
- 2. Map 47b: Crow River Area. scale 1:12,000. O.D.M. 1938
- 3. Map 2218: Cat Lake Pickle Lake Geological Compilation Series. scale 1:253,440. O.D.M. 1975
- 4. Map P.809: Achapi Lake Misehkow River. scale 1:126,720. O.D.M. 1973
- 5. Map P.1009: Crow River Area. scale 1:12,000. O.D.M. 1975

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The survey area is underlain by a suite of extrusive, mafic to felsic Precambrian volcanics, including both flows and fragmentals. Intercalated with these are metasediments, narrow well-defined iron formations and quartz albite porphyry. They are intruded by small gabbroic sills, quartz diorite sills and dykes, minor biotite lamprophyre and late Precambrian diabase dykes. Granitic intrusions occur to the west (Pickle Lake Stock), south (Hooker Burkoski Stock) and east. Faults trend to the northwest and northeast.

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The area has numerous gold showings and has supported several operating mines. Gold occurs as fissures of composite quartz veins, stockworks in iron formation, siliceous shear zones and replacement bodies.

## 4. SURVEY SPECIFICATIONS

### 4.1 Instruments

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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 based on the Overhauser effect. The Overhauser effect allows for polarization of a proton rich liquid of the sensor by adding a "free radical" to it and irradiating it by RF magnetic field. Strong precession signals are generated with modest RF power. The sensor element is mounted in an extension of the right wing tip. It's specifications are as follows:

Resolution:	0.5 gamma
Accuracy:	0.5 gamma
Cycle time:	0.5 second
Range:	20,000 - 100,000 gammas in 23 overlapping steps
Gradient tolerance:	Up to 5000 gammas per metre
Model:	GSM-9BA
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

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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 metres b) Line direction: 360 degrees West sheet 320 degrees East sheet c) Terrain clearance: 100 metres d) Average ground speed: 156 km/hr. e) Data point interval: 27 metres Magnetic: VLF-EM: 27 metres f) Tie Line interval: 2 kilometres g) Channel l (LINE): NAA Cutler, 24.0 kHz h) Channel 2 (ORTHO): NSS Annapolis. 21.4 kHz i) Line km over survey area: Magnetic survey totals.... 1,225 line km VLF-EM survey totals..... 1,225 line km

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# 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 metres for more than one km were reflown if safety considerations were acceptable.

c) Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.

d) Manoeuvre noise: Approximately +/-5 gammas.

## 4.4 Photomosaics

For navigating the aircraft and recovering the flight path, mosaics of aerial photographs were made from existing air photos.

Nuac 905, 121 Richmond Street West, Toronto, Canada, M511 2K1, Telephone (+16) 869-0010 Altimeter /LF station F statio cJ. ່ເປ 60 4 © 0 604 TM 1 gnetometer (coarse & fine scale Ma ល ហ ហ NBBE36 CUT 150 01 н Ц С \_ .. (U () V () U ערווניייי LN T **Fiducials** °⊢шкк∉оршо⊢ FIGURE 3. Sample of analogue data TERRAQUEST LTD.

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 has not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/10th of an inch at map scale.

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 computer program for this purpose is provided by Paterson, Grant and Watson Ltd. of Toronto

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

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

Grant, F.S., 1972: Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics Vol 37-4

Spector, A., 1968: Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto

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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 magnetic field has a very substantial relief of over 7,200 gammas. The gradients range from extremely steep down to areas of low, flat magnetic responses. The vertical derivative magnetic data shows improved resolution and has been used to delineate the stratigraphy and structure. The total magnetic field data was used to delineate the larger bodies (granites) and to establish the relative magnetic intensities of the mapped units. The following notes supplement the data and interpretation maps which represent the major objective of the survey.

The very strong magnetic anomalies correlate with the iron formations (Unit 4). Despite the data enhancement technique (calculated vertical derivative) the magnetic susceptibility of these horizons still overpower the responses from adjacent rocks and prevent the discrimination of closely spaced iron formations. The strengths of the anomalies are related to a combination of (a) concentration of magnetite and (b) the mass or total volume of the magnetic strata. Weaker anomalies mapped as iron formation are probably characterized by weaker and/or fewer horizons. The diabase dyke on the western sheet has a strong magnetic response. The magnetically mapped width may be prone to exaggeration.

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Exposures of biotite granite (Unit 7) correlate with very weak and uniform magnetic responses. The contacts are best defined by the total magnetic field data. The magnetic pattern is characterized by widely spaced contours representing the magnetic residual decreasing away from the volcanics. The total field low that extends northwest from the Hooker Burkoski Stock is interpreted to be an extension of the intrusive beneath the volcanic strata.

The extrusive volcanics (Unit 1), fragmental volcanics (Unit 2), metasediments (Unit 3), gabbro (Unit 5) and quartz albite porphyry (Unit 6) all possess similar magnetic responses at this scale. In some cases, such as with the gabbro, there may not be sufficient rock volume to influence the total magnetic response.

Some of the volcanic strata possess slightly higher magnetic responses (Units 1m and 2m). These are probably related to increased concentrations of magnetic minerals (such as magnetite or pyrrhotite) or to more mafic horizons. The broad horizon of Unit 2m that crosses the eastern map sheet may, in part, be related to lean or thin iron formation.

Interpreted faults trend to the northeast, northwest and rarely to the north-northeast. Faults parallel to magnetic stata are difficult to detect. The interpreted faults correlate well with the geologically mapped faults.

Numerous VLF-EM conductor axes have been identified and evaluated according to the Terraquest classification system (Figure 4). This system correlates the nature and orientation of the conductor axes with stratigraphic, structural and topographic features to obtain an association from which one or more origins may be selected. Alternate associations are indicated in parentheses.

The swampy and low areas within this survey area are characterized by conductive overburden and may mask possible bedrock conductors. The interpreted conductive faults may possess conductive minerals (such as gouge, graphite or sulphides), porosity or conductive overburden. Faults interpreted from magnetic or VLF-EM data may provide primary structural control for epithermal mineralization.

Those conductor axes that coincide with or parallel magnetic strata possess potential for bedrock sources, either as mineralogic or electrolytic (porosity) origins. Those that have not already been ground tested should be followed up by EM or IP techniquies.

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	FIGURE 4	•
	TERRAQUEST CLASSIFICATION OF	VLF-EM CONDUCTOR AXES
SYMBOL	CORRELATION	ASSOCIATION: Possible Origins
<b>a</b> , <b>A</b>	Coincident with magnetic stratigraphy	Bedrock magnetic horizons: stratabound minerators or shear zone
<b>b</b> , <b>B</b>	Parallel to magnetic stratigraphy	<ul> <li>Bedrock non-magnetic horizons: stratabound mineralogic origin or shear zone</li> </ul>
<b>c</b> , <b>C</b>	No correlation with magnetic stratigraphy	Association not known: possible small scale stratabound mineralogic origin, fault or shear zone, overburden
d , D	Coincident with magnetic dyke	Dyke or possible fault: mineralogic or electrolylic
f, F	Coincident with topographic lineament or parallel to fault system	Fault zone: mineralogic or electrolytic
ob, OB	Contours of total field response conform to topographic depression	Most likely overburden: clayey sediments, swampy mud
cul, CUl	<ul> <li>Coincident with cultural sources</li> </ul>	Electrical, pipe or railway lines

# NOTES

- 1 Upper case symbols denote a relatively strong total field strength
- 2 Underlined symbols denote a relatively strong quadrature response
- 3 Mineralogic origins include sulphides, graphite, and in fault zones, gouge
- 4 Electrolytic origins imply conductivity related to porosity or high moisture content

7. SUMMARY

An airborne combined magnetic and VLF-EM survey has been done on the property at line intervals of 100 metres. The total field and vertical gradient magnetic data, VLF-EM data and interpretation maps are produced at a scale of 1:10,000.

The magnetic data has been used to modify and update the existing geology and has shown a few new contacts and faults. A number of VLF-EM conductor axes were found of which some are believed to have potential sulphide origins and have been recommended for additional investigation.

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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS \_\_\_\_\_ TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. UNSURVEYED LINES. LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. BAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM FLOODING OF FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS sidesensione inde energia OBIGINAL SHOPELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT DISPOSITION OF CROWN LANDS TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS ..... . SURFACE RIGHTS ONLY. MINING RIGHTS ONLY LEASE, SURFACE & MINING RIGHTS. " SURFACE RIGHTS ONL" MINING RIGHTS ONLY. LICENCE OF OCCUPATION ORDER-IN-COUNCIL RESERVATION CANCELLED \_\_\_\_\_ SAND & GRAVEL NOTE: MINING HIGHTS IN PARCELS PATENTED PRICH TO MAY 6. 1913 VESTED IN ORIGINAL PATENTER BY THE PUBLIC LANDS ACT, R.S.D. 1970 CHAP. 380, SEC. 63, SUBSEG 1.  $\omega$ REFERENCES AREAS WITHDRAWN FROM DISPOSITION M.R.O. MINING RIGHTS ONLY S.R. Q SURFACE RIGHTS ONLY M. + S. M.NING AND SURFACE RIGHTS Description Order No. Done Disposition File Head according to Oct 24/30 A. B. Skiller Aug 22, 1986 PATRICIA MINING DIV. () NOV 6 1986 Nov. 17 1986 REGEIVE 111 JAN 29187 SEP 25 1987 m Jan 30/87 1 718191011112111213141516 JEB. 19/81 7=0 20/87 Mar , 3/87 R-2 SEC. 31(b) M+SWITHDRAWN-ANTENNASITE Names of Towns in this area shown thus ( (1) Pickle Lake (2) Central Patricia (3) Pickle Crow SCALE: 1 INCH = 40 CHAINS 4000 5000 1000 2000 D 200 METRES 13000 (1.KM) (2 KM) ABEA DONA LAKE M.N.R. ADMINISTRATIVE DISTRICT SIOUX LOOKOUT MINING DIVISION PATRICIA LANG TITLES / REGISTRY DIVISION KENORA (PATRICIA PORTION) Ministry of Land 197 Natural Management U. 51° 22' 30" Resources Branch Ontario Number Dite FEERUARY 1984 G-2009 514901



LEGEND HIGHWAY AND ROUTE No. OTHER BOADS TRAILS ------SURVEYED LINES TOWNSHIPS, BASE LINES, ETC LOTS, MINING CLAIMS, PARCELS, ETC UNSURVEYED LINES. LOT LINES PARCEL BOUNDARY -----MINING CLAIMS ETC. -----RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM -----FLOODING OR FLOODING RIGHTS TANKA MARANA SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT **DISPOSITION OF CROWN LANDS** TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS .... SURFACE RIGHTS ONLY MINING RIGHTS ONLY LEASE, SURFACE & MINING RIGHTS " SURFACE RIGHTS ONLY ... MINING RIGHTS ONLY LICENCE OF OCCUPATION ORDER IN COUNCIL RESERVATION CANCELLED SAND & GRAVEL NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDE ACT, R.S.O. 1970, CHAR 380, SEC 63, SUBSEC 1 R E F E R E N C E S AREAS WITHDRAWN FROM DISPOSITION M.R.D. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS Order No. Description Oate File Disposition. May 9, 1984 May 24, 1985 JAN 29/86 Mar. 17/86 Jan 12/87 Mar. 23/81 PATRICIA MININGDIV REGEIVE MAR 3 0 1987 A.M. 7:8:9:10:11:12:1:12:3:4:5:6 SCALE 1 INCH - 40 CHAINS (2 × M AREA WEIBERG LAKE M.N.R. ADMINISTRATIVE DISTRICT SIOUX LOOKOUT MINING DEVISION PATRICIA LAND TITLES / REGISTRY DIVISION KENORA (PATRICIA PORTION) Ministry of Land Ontario Natural Management Resources Branch Nemest. Date FEBUARY . 1984 G-2248









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