A-857

010

REPORT ON AN

AIRBORNE MAGNETIC & VLF-EM SURVEY OXTONGUE LAKE AREA McCLINTOCK TOWNSHIP ONTARIO

MINING DIVISION ONTARIO

for

MR. FRED SWAIN

by

TERRAQUEST LTD.
Toronto, Canada

December 15, 1989

240 Adelaide Street West, Toronto, Canada M5H 1W7, Telephone (416) 971-5400, Fax (416) 971-6449

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LIST OF FIGURES

LIST OF MAPS IN JACKET

240 Adelaide Street West, Toronto, Canada M5H 1W7. Telephone (416) 971-5400, Fax (416) 971-6449

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1.0 INTRODUCTION

This report describes the specifications and results of an airborne geophysical survey carried out for Mr. Fred Swain, of Box 1325, Bracebridge, Ontario, P0B 1C0 by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was completed on October 14th to October 19th, 1989 and the data processing, interpretation and reporting from October 20th to December 15th, 1989.

The purpose of a survey of this type is two-fold. First 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.

2.0 THE PROPERTY

The property is located in McClintock township, in the Southern Ontario Mining Division, approximately 30 kilometres east of the town of Hunstville. The claims lie in the central and northern portions of the township and can accessed by bush roads leading from Highway 60.

The latitude and longitude are 48 degrees 22 minutes, and 78 degrees 51 minutes respectively, and the N.T.S. reference is 31E/7.

The claim numbers are shown in figure 2 and listed below:

SO1040258-1040264	(7)
SO1040298-1040301	(4)
SO1040303-1040305	(3)
SO1040350-1040374	(25)
SO1008754	(1)
SO1008757-1008758	(2)
SO1008760-1008762	(3)
SO1008775-1008778	(4)
SO1008780	(1)
SO1008784-1008789	(6)
SO1008817-1008840	(24)
SO1008842-1008845	(4)
SO1008857-1008868	(12)
SO1008851-1008856	(6)

123

102

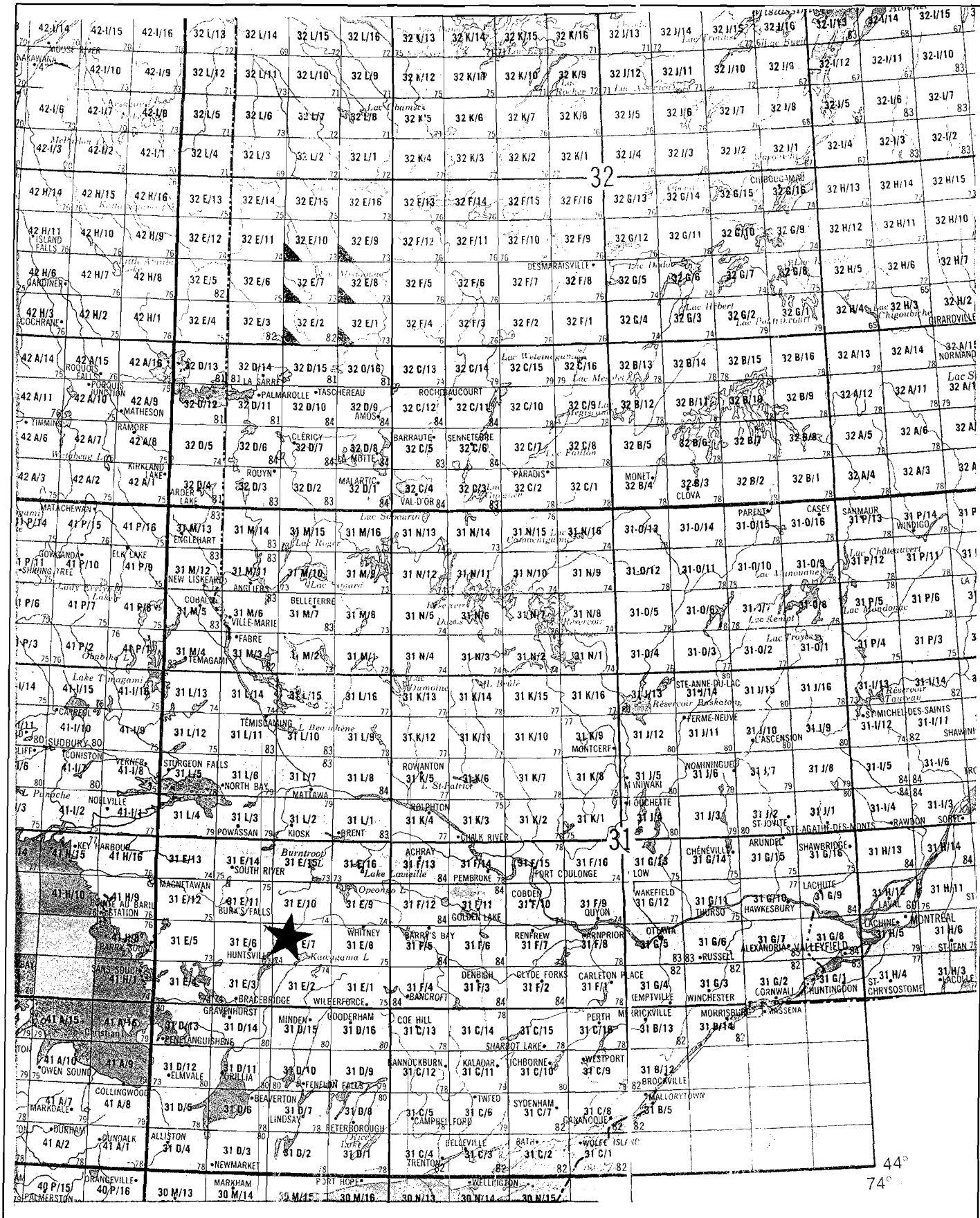

FIGURE 1. General Locati n

Suite 905, 121 Richmond Street West, Toronto, Canada, M5H 2K1, Telephone (416) 869-0010

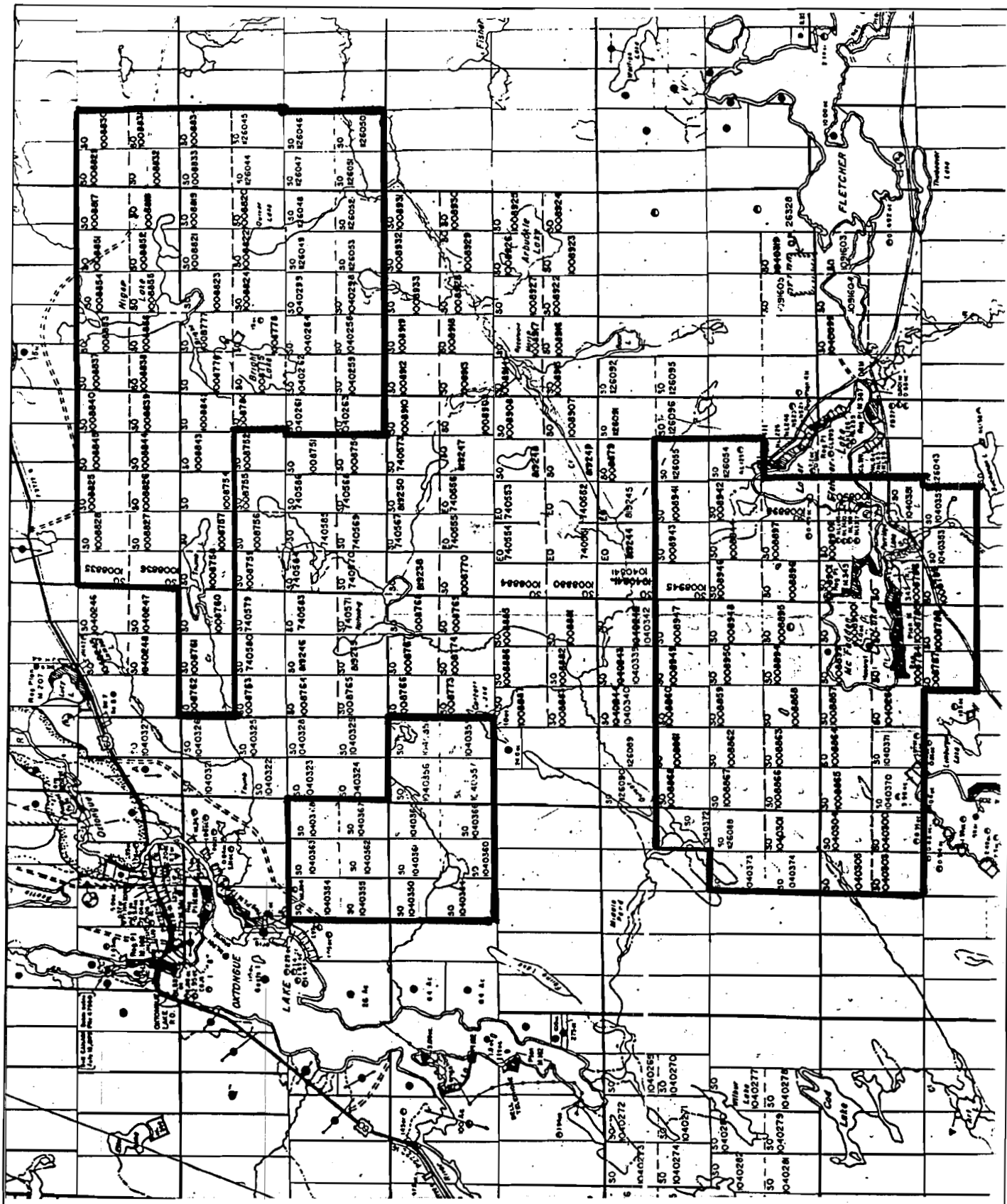

FIGURE 2. SURVEY AREA

(exact claim locations not certified)

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SO1008894-1008903	(10)
SO1008941-1008950	(10)
SO1126044-1126055	(12)
SO1126088	(1)

Total 135 Claims

3.0 GEOLOGY

Map References

1. Map:2392 Ontario Geological Map, Southern Section. Scale 1:1,013,760 OGS 1978.

The survey area is located within the highly metamorphosed Grenville belt. Only regional geological maps are available. The property is underlain by a suite of anorthositic rocks. This suite trends to the north and is approximately 4 to 5 kilometres wide and is composed of anorthosite, gabbroic anorthosite, tonalite, monzonite, syenite and ultramafic rocks. This suite is surrounded by highly metamorphosed clastic metasediments with minor associated iron formation and metavolcanics.

Sulphide lenses have been discovered within the anorthositic suite in the central to southern portions of the township..

4.0 SURVEY SPECIFICATIONS

4.1 Aircraft and Instruments

The survey was carried out using a Cessna 206 aircraft, registration C-GGLS, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer sensor is a high sensitivity, optically pumped cesium vapour magnetometer mounted in an extension boom attached to the tail of the aircraft. It's specifications are as follows:

Working range:	20,000-100,000 gammas
Sensitivity:	0.005 gammas
Sampling rate:	0.2 seconds
Model:	BIW 2321H8
Manufacturer:	Scintrex, Concord Ontario.

The magnetometer processor is a PMAG 3000 and the data acquisition system is a PDAS 1000, both manufactured by Picodas Group Inc.

The signal to noise ratio of the magnetic esponse is improved by a compensation technique provided by Picodas Group Inc. The

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sources of noise are permanent, induced and eddy current effects of the airframe, and the heading effects. The system uses three orthogonal fluxgate magnetometers to measure the aircraft attitude with respect to the earth's magnetic field vector. A mathematical model is used to solve this interference effect.

The VLF-EM sensor is mounted in the port wingtip. It uses three orthogonal detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase 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:	0.2 second
Model:	TOTEM 2A
Manufacturer:	Herz Industries, Toronto, Canada

Other instruments are:

* King KRA-10A radar altimeter
* PDAS-1000 data processor with 40 mByte cassette tape and 3 1/2" disk recorder manufactured by Picodas Group Inc.
* Trimble TRANS GPS satellite and Loran-C navigation
* Video tape flight path confirmation, 1/10th second fiducial intervals and with electronic attitude compensation

4.2 Lines and Data

Total survey area.....447 kilometres
Claim group coverage....270 kilometres
Line direction.....090 degrees azimuth
Line interval.....100 metres
Tie line interval..... 2 kilometres
Terrain clearance.....100 metres
Average ground speed....193 kilometres/hour
Data point interval:
Magnetic.....11 metres
VLF-EM.....11 metres
Channel 1 (LINE).....NSS Annapolis, 21.4 kHz
Channel 2 (ORTHO).....NAA Cutler, 24.0 kHz
Note: The Annapolis transmitter was not functional on one of the survey days, consequently NLK Seattle, 24.8 kHz was substituted for lines 50 through to 481.

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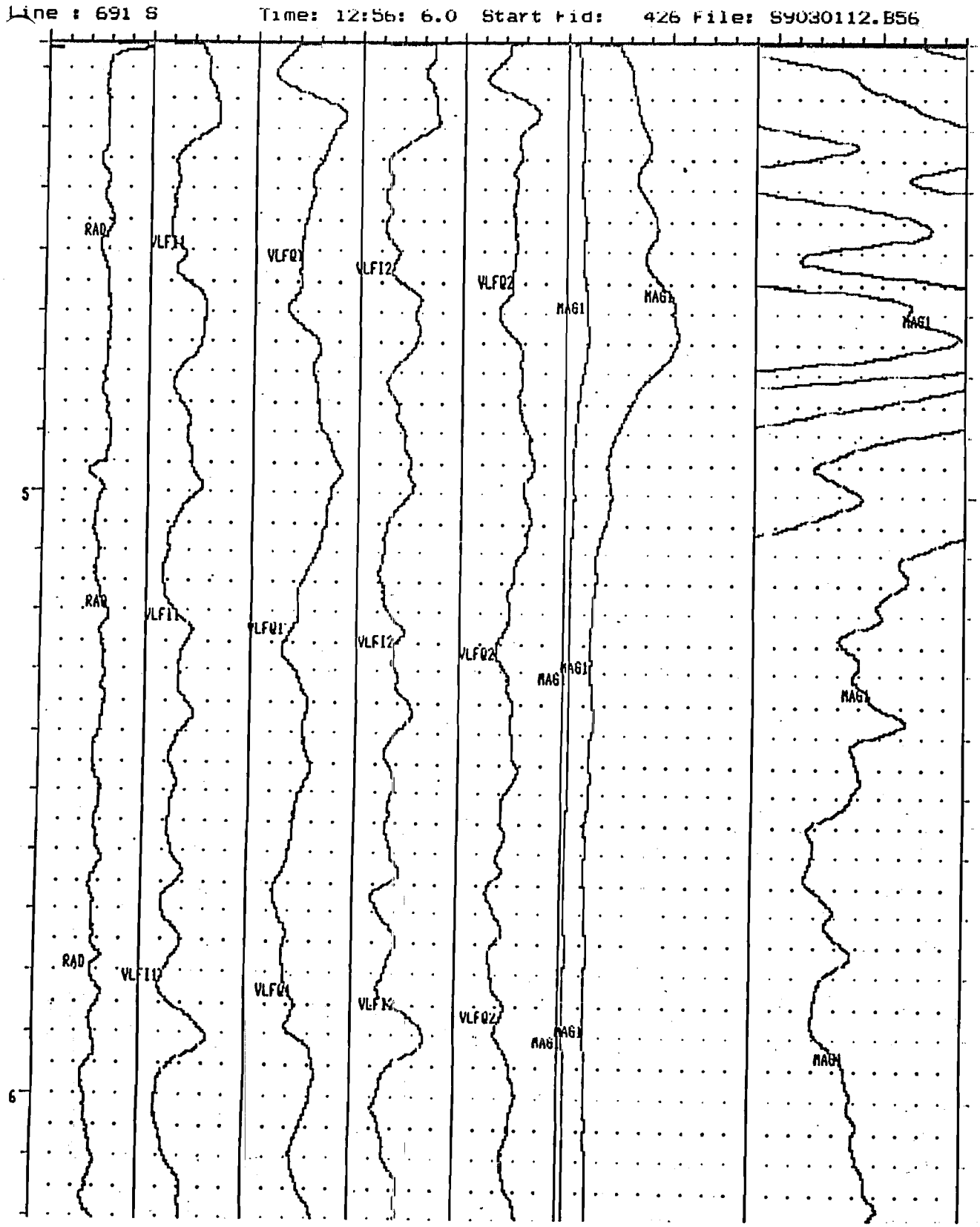

FIGURE 3. SAMPLE OF ANA .OG DATA

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4.3 Tolerances

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

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

Manoeuvre noise: nil

4.4 Navigation and Recovery

The satellite navigation system was used during periods of satellite visibility to ferry to the survey site and to survey along each line using either latitude/longitude or UTM coordinates. The accuracy is variable depending on the number and condition of the satellites, however it is less than twenty-five metres and typically in the ten to fifteen metre range.

For assisting the navigation of the aircraft and the recovery of the flight path, semi-controlled mosaics of aerial photographs were made from existing air photos. Each photograph forming the mosaic was adjusted to conform to the NTS map system before the mosaic was assembled. These mosaics are also used as a base for the data and interpretation maps, and thereby allow detailed ground locations for follow-up investigations and further mapping.

In addition, flight path recovery was also 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 and to provide correlation between the satellite navigation/recovery data and the photomosaic base maps.

5.0 DATA PROCESSING

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 gridded and contoured total field data using a method of transforming the data

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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.

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.

6.0 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-EM data. On a local scale "geological" units were interpreted from the magnetic gradient contour patterns based on their characteristic patterns and intensities, or "signatures". The contacts are typically located along the steepest section of the gradient; therefore the vertical magnetic gradient format was used primarily to delineate stratigraphy. The total magnetic field format was used to determine the relative magnetic intensity of the interpreted unit. Where possible these units were related to existing geology (known outcrops) to provide a geological identity to the units.

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. Mafic to felsic metavolcanics are usually characterized by respectively strong to weak magnetic intensities. Clastic metasediments generally possess very low magnetic susceptibilities and therefore correlate with very low magnetic responses, and in some cases, the observed responses are overwhelmed by the magnetic fields from the surrounding lithologies.

Alteration zones can show up as anomalously quiet areas, often

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adjacent to strong, circular anomalies that represent intrusives, or along an otherwise magnetically active horizon. In some cases, contact metamorphic aureoles are characterized by magnetic anomalies.

On a regional scale the total magnetic field contour patterns were used in the same way to delineate bodies of larger dimensions.

Faults and shear zones were interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting and the topographic lineaments in the general area were taken into account when selecting the dominant fault orientations. Folding is usually seen as curved regional patterns.

VLF-EM anomalies are evaluated according to a) the relative intensities of the total field strength, b) correlation of the total field strength with magnetic, geologic and topographic features, and c) the intensity and nature of the quadrature or phase response.

Areas showing a smooth total field VLF-EM 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 limited or no response from bedrock is seen.

The 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 possible origins may be selected. Alternate associations are indicated in parentheses.

The phase response has been categorized according to whether the profile 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 bedrock conductor with considerable depth extent, or both. Normal phase response is theoretically caused by surface conductors with limited depth extent. In some cases, a change in the orientation of the conductor appears to affect the sense of the phase response.

6.2 Interpretation

The magnetic and VLF-EM data are shown in contoured format on maps at a scale of 1:10,000 in the back pocket. An interpretation map is also provided. The following notes are intended to supplement these maps.

The total magnetic field has a relief of approximately 1,550 gammas

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FIGURE 4

TERRAQUEST CLASSIFICATION OF VLF-EM CONDUCTOR AXES

SYMBOL	CORRELATION	ASSOCIATION: Possible Origins
a , A	Coincident with magnetic stratigraphy	Bedrock magnetic horizons: stratabound mineralogic origin or shear zone
b , B	Parallel to magnetic stratigraphy	Bedrock non-magnetic horizons: stratabound mineralogic origin or shear zone
c , C	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 electrolytic
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	Coincident with cultural sources	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

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across the entire survey area. The anorthositic suite correlates with the strongest responses and generally smoothly curved contour patterns, whereas the surrounding lithologies correlate with moderate intensities and irregular patterns. Strong responses appear to be related to large bodies located at the north central and south eastern edges of the survey area. The calculated vertical gradient improves the resolution of most of the magnetic anomalies and enhances the subtle magnetic trends in the magnetically quiet areas. The interpretation map is based on the total magnetic field, the calculated magnetic gradient, the VLF-EM data and the lineament map which has been interpreted from the photomosaic.

The survey area has been subdivided into four domains based primarily on the magnetic and structural elements. Domain A coincides with the anorthositic suite of rocks (Unit 2) and is characterized by weak to very strong magnetic responses. The magnetically active horizons have been identified on interpretation map (Unit 2m) and are probably related to the more mafic to ultramafic compositions including peridotite. A known sulphide horizon northeast of McFadden Lake correlates with a narrow subtle magnetic expression (Unit 2s). The magnetic mapping suggest that this horizon can be traced further to the northeast and southwest. The width of the 2m Units are quite variable however it is suspected that the wider 2m Units maybe somewhat exaggerated due to overwhelming of the magnetic effect from highly magnetic sources.

The horizons within the anorthositic suite appear to be moderately to tightly, isoclinally folded about north trending axial planes. It is difficult to resolve these folds at the northern end of this suite but it is suspected that the folding becomes progressively tighter towards the north where the entire suite curves to the northwest.

Domains B and C are characterized by weak to moderate strength magnetic responses and coincide with the metamorphosed clastic sedimentary suite. Within domain B magnetically active horizons trend to the north, whereas in domain C they trend to the northwest. These magnetically active horizons (Unit 1m) are probably related to intermediate to mafic metavolcanics, lean iron formation or higher concentrations of sulhides. The quiet magnetic background (Unit 1) probably correlates with the metamorphosed clastic metasediments and felsic metavolcanics.

The northern edge of the survey area appears to be at the juncture of domains B and C, especially as observed from the vertical magnetic gradient map. However this area is differentiated from the others by the presence of at least two long and relatively continuous horizons with very strong magnetic responses. These are tentatively interpreted to be related to late stage mafic dykes (Unit 4).

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As an alternative interpretation it is suggested that domain A, the anorthositic suite, may extend further to the northwest along the magnetically active responses.

Domain D to the southeast is characterized by broad expanses of relatively strong magnetic responses (Unit 3). These features are typical of intrusive plugs or stocks, and in this case, of probable mafic composition. Minor areas with decreased magnetic intensities are identified on the interpretation map by the symbol 3w. These may be related to compositional variations within the stock, alteration, or xenoliths of country rock.

Numerous faults or possible shear zones have been interpreted from the magnetic data, many of which are corroborated by the lineament map. The most persistent and probably youngest structures trend to the north. Numerous cross structures trend to the eastwest, northeast and northwest and reflect the high degree of metamorphic deformation in the area. Note that the interpreted mafic dykes (Unit 4) are parallel to the northeast trending set of faults.

Numerous VLF-EM conductor axes have been identified and classified according to their strength and possible origin. There is a good correlation between the broad conductive zones and the lakes and swampy areas indicating that most of the conductive overburden is confined to topographic depressions.

Those conductor axes that coincide with or are parallel to the magnetically active horizons possess potential for bedrock sources. These include disseminated to massive sulphides, graphite or porus rocks such as porus flowtops. Any exploration program for minerals associated with sulphides should investigate all the conductors within this category by detailed prospecting and probably by further EM or IP surveys to improve and further define their parameters. Note that the interpreted sulphide horizon within the anorthositic suite northeast of McFadden Lake has an associated VLF-EM conductor axis.

Numerous VLF-EM conductor axes coincide with magnetically interpreted faults or airphoto lineaments and therefore are interpreted to be related to structural sources, either faults or shear zones. This type of conductivity may be related to a) minerals such as sulphides, graphite or gouge along the structure, or b) an ionic effect created by water or porosity within the structure or along the upper weathered and leached edge. Exploration for epithermal type mineralization should be concentrated along structures identified by either the magnetic or VLF-EM techniques.

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7.0 SUMMARY

An airborne combined magnetic and VLF-EM survey has been carried out at 100 metre line intervals with data reading stations at 11 metres along the flight lines. All data is produced on maps at a scale of 1:10,000.

The magnetic data has been used to delineate structural and magnetic domains. Domain "A" is related to the anorthositic suite of rocks and is characterized by tight to isoclinally folded horizons of anorthosite, ultramafics and minor sulphides. Domains "B" and "C" are interpreted to be related to the metamorphosed clastic metasediments and associated magnetically active horizons. Domain "D", to the southeast, is tentatively interpreted to be derived from a highly metamorphosed mafic stock.

Numerous faults and shear zones trend to the north-northeast, north, northwest and eastwest. A number of VLF-EM conductor axes have been identified and classified according to a) surficial conductivity within topographic depression, b) structural origins that may reflect epithermal type mineralization, and c) stratabound bedrock sources which may reflect disseminated to massive sulphide origins. The latter have been recommended for additional investigation.

TERRAQUEST LTD.

Charles Q. Barrie, M.Sc.
Geologist
2.8305

GEOLOGICAL ASSOCIATION OF CANADA
CHARLES Q. BARRIE
FELLOW

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Ministry of Northern Development and Mines
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

W8909.96

31E07NW0008 2.12987 MCCLINTOCK

900

Job A-857

Type of Survey(s): AIRBORNE MAG. & VLF-EM

2.12987 McCLINTOCK TWP.

Claim Holder(s): Sherry L. Swain

Prospector's Licence No.: A48087

Address: Box 1325, BRACEBRIDGE, ONT. P0B 1C0

Survey Company: TERRAQUEST LTD.

Date of Survey (from & to): 18 10 89 (Day Mo. Yr.) 19 10 89

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): C.Q. BARRIE, 240 ADELAIDE ST. W, TORONTO, ONT.

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
SO	1008857	
	1008858	
	1008859	
	1008860	
	1008861	
	1008862	
	1008863	
	1008864	
	1008865	
	1008866	
	1008867	
	1008868	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

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NOV 22 1989
MINING LANDS SECTION

SOUTHERN ONTARIO MINING DIVISION
RECEIVED
NOV 10 1989
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

Total number of mining claims covered by this report of work: 12

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
960	Nov. 10/89	
	Date Approved as Recorded: Feb 2/90	Branch Director

Date	Recorded Holder or Agent (Signature)
Nov. 8/89	S. Swain

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Sherry L. Swain

Box 1325, BRACEBRIDGE, ONT. P0B 1C0

Date Certified: Nov-8/89

Certified by (Signature): S. Swain

1362 (85/12)

Ontario

Ministry of Northern Development and Mines

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No. W8909•97

Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): AIRBORNE MAG + VLF-EM

Township or Area: McCLINTOCK TWP

Claim Holder(s): FRED R. SWAIN 2.12987

Prospector's Licence No.: A48086

Address: Box 1325, BRACEBRIDGE, ONT. P0B 1C0

Survey Company: TERRAQUEST LTD

Date of Survey (from & to): 18 10 89 (Day Mo. Yr.) to 19 10 89 (Day Mo. Yr.)

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): C.Q. BARRIE 240 ADELAIDE ST. W, TORONTO, ONT.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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NOV 22 1989
MINING LANDS SECTION

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

RECEIVED
NOV 10 1989
MINING LANDS SECTION

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
SO	1040354	
	1040355	
	1040350	
	1040364	
	1040363	
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	1040356	
	1040357	
	1040358	
	1040359	
	1008777	
	1008949	
	1008950	
	1008894	
	1008776	
	1008775	
	1008787	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
SO	1008784	
	1008947	
	1008948	
	1008895	
	1008900	
	1008785	
	1008788	
	1008945	
	1008946	
	1008896	
	1008901	
	1008786	
	1008789	
	1008943	
	1008944	
	1008897	
	1008902	
	1040369	
	1040353	
	1008941	
	1008942	
	1008898	
	1008903	

continue

Total number of mining claims covered by this report of work: 53

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
4240	Mar 10/89	
	Date Approved as Recorded: Feb 2/90	Branch Director

Date: Nov. 8/89

Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: FRED R. SWAIN, Box 1325, BRACEBRIDGE, ONT P0B 1C0

Date Certified: Nov 8/89

Certified by (Signature):

1362 (85/12)

continued (Fred Swain) A48086

SO 1040351

1040352

1126055

1126054

1008778

1008780

1008899

Rec. Geo. Dorset.

Jan 11 M.L.S.

Jan 11 1990

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W8909•99

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Mining Act

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) JOB # A-857 AIRBORNE MAGNETOMETER & VLF E.M.	Mining Division 2.12987 SOUTHERN ONT.	Township or Area G-2439 MCCLINTOCK TOWNSHIP	
Recorded Holder(s) ROBERT M. ELLERINGTON		Prospector's Licence No. A50150	
Address RR#3. NEWMARKET L3Y4W1		Telephone No. 416-836-7007	
Survey Company TERRAQUEST LTD. -240 ADELAIDE ST. WEST. TORONTO			
Name and Address of Author (of Geo-Technical Report) C.Q. BARRIE - 240 ADELAIDE ST. W. TORONTO ONT.		Date of Survey (from & to) Day 18 Mo. 10 Yr. 89 / Day 19 Mo. 10 Yr. 89	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s). XX RE

Date 15/11/89 Recorded Holder or Agent (Signature) [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
S.O	1040263				
S.O.	1040264				

RECEIVED
NOV 20 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work. 2

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying			
C. BARRIE 240 ADELAIDE ST. W TORONTO			
M5H 1W7	Telephone No. (416)971-5400	Date NOV 15/89	Certified By (Signature) [signature]

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
160	Nov. 22/89	[signature]
	Date Approved as Recorded: Feb 2/90	Provincial Manager, Mining Lands: [signature]

Received Stamp

SOUTHERN ONTARIO RECEIVED NOV 22 1989

A

0362 (89/06)

Res. Geo. Dorset.

Jan 11 M.L.S.

Jan 11 1990

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W8909•100

Report of Work

Mining Act

(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s)	Mining Division	Township or Area
JoGA-857 / Airborne Magnetometer & V.L.F. EM.	Southern Ont	G2459 / McClintock Twp

2.12987

Recorded Holder(s)	Prospector's Licence No.
John P. EILERINGTON	A50277

Address	Telephone No.
P.O. Box 465 Dorset Ont P0A 1E0	705-766-9594

Survey Company: TERRAQUEST LTD - 240 ADELAIDE ST. WEST TORONTO ONT

Name and Address of Author (of Geo-Technical Report): C.Q. BARRIE - 240 ADELAIDE ST WEST TORONTO

Date of Survey (from & to): 18 10 89 (Day Mo. Yr.) — 19 10 89 (Day Mo. Yr.)

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits **Note:** Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s). 8 Re

Date: 16/11/89

Recorded Holder or Agent (Signature): J.P. Eilerington

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1040298				
SO	1040299				

RECEIVED NOV 22 1989 MINING LANDS SECTION

Total number of mining claims covered by this report of work: 2

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: C.Q. Barrie 240 Adelaide St. W. Toronto

	Telephone No.	Date	Certified By (Signature)
M5H 1W7	(416) 971-5400	Nov 15/89	

Received Stamp

SOUTHERN ONTARIO MINING DIVISION RECEIVED NOV 22 1989 AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

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Total Days Cr. Recorded	Date Recorded	Mining Recorder
160	Nov 22/89	
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

1362 (89/06)

Res. Area. Dorset.

M.L.S.

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W8909.101

2.12987 Nov 10, 1990

Report of Work — Job A-857

Mining Act

(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)	Mining Division	Township or Area
AIRBORNE MAGNATOMETER & V.L.F. E.M. ✓	SOUTHERN ONTARIO ✓	MCCLINTOCK TOWNSHIP-G2439 ✓

Recorded Holder(s)	Prospector's Licence No.
WILLIAM J. ELLERINGTON ✓	A-50149 ✓

Address	Telephone No.
5777 RIDEAU VALLEY DR. NORTH, MANOTICK ONT. K0A 2N0	613-692-3357 ✓

Survey Company: TERRA QUEST LTD. - 240 ADELAIDE ST. WEST, TORONTO ✓

Name and Address of Author (of Geo-Technical Report): C.Q. BARRIE - 240 ADELAIDE ST. WEST, TORONTO, ONTARIO

Date of Survey (from & to): 10 Day | 10 Mo. | 89 Yr. | 19 Day | 10 Mo. | 89 Yr. ✓

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40 ✓
	Magnetometer	40
	Other	

Total miles flown over claim(s). RE

Date: 15 Nov. 1989 | Recorded Holder or Agent (Signature): W.J. Ellerington

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1040261				
SO	1040262				

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NOV 22 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 2 ✓

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: C.Q. Barrie, 240 Adelaide St. W. Toronto M5H 1W7

Telephone No.: (416) 971-5400

Date: NOV 15/89

Certified By (Signature): ✓

Received Stamp:

SOUTHERN ONTARIO MINING DIVISION
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NOV 22 1989
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For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
160	Nov. 22/89	
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

1362 (89/06)

Rec. No. Dupl.

Jan 11 N.L.S.
Jan 11, 1990

Ministry of Northern Development and Mines
Ontario

DOCUMENT No.
W8909• 102

Report of Work
Mining Act
(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s)	Mining Division	Township or Area
Airborne Magnetometer & V.L.F-Em. Job A-857	Southern Ont	G 2439 McClintock Township

2.12987

Recorded Holder(s)	Prospector's Licence No.
W.C. ELLERINGTON	A50148

Address	Telephone No.
P.O. Box 153, Dorset, Ont. P0A 1E0	705-766-2284

Survey Company
TERRAQUEST LTD. - 240 Adelaide St. West Toronto

Name and Address of Author (of Geo-Technical Report)
C.A. BARRIE - 240 ADELAIDE ST. W. Toronto Ont

Date of Survey (from & to)

From Day	From Mo.	From Yr.	To Day	To Mo.	To Yr.
18	10	89	18	10	89

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s). 11 RE

Date: 15/11/89
Recorded Holder or Agent (Signature): W.C. Ellerington

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1040258				
SO	1040259				
SO	1040260				
SO	1040300				
SO	1040301				
SO	1040303				
SO	1040304				
SO	1040305				
SO	1040373				
SO	1040374				
SO	1126088				

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NOV 20 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 11

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
C. BARRIE 240 Adelaide St. W. Toronto

Telephone No.	Date	Certified By (Signature)
M5H 1W7 (416) 971-5400	NOV 15/89	

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SOUTHERN ONTARIO MINING DIVISION
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NOV 22 1989
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For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
880	Nov 22/89	
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

1362 (89/06)

Res. Geologist - Dorset

Jan 17

Ministry of Northern Development and Mines

Ontario

DOCUMENT NO. W8909.103

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Mining Act

Report of Work
(Geophysical, Geological and Geochemical Surveys)

2.12987

Type of Survey(s)	Mining Division	Township or Area
AIRBORNE MAG & VLF-EM	SOUTHERN ONT.	M. CLINTOCK TWP. (G2439)

Recorded Holder(s)	Prospector's Licence No.
RENE TOUGAS	A50117

Address	Telephone No.
105 BELLEVUE DR. KANATA ONT. K2L-3H2	705-645-2692

Survey Company: TERRA QUEST LTD.

Name and Address of Author (of Geo-Technical Report): C.Q. BARRIE 240 ADELAIDE ST. W. TORONTO

Date of Survey (from & to): 18 10 89 (Day Mo. Yr.) — 19 10 89 (Day Mo. Yr.)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s):

Date: Nov 27/89

Recorded Holder or Agent (Signature): [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1008845	SO	1008834		
SO	1008840		1008835		
SO	1008837		1008826		
SO	1008853		1008827		
SO	1008854		1008828		
SO	1008851		1008825		
SO	1008852				
SO	1008855				
SO	1008856				
SO	1008838				
SO	1008839				
SO	1008844				
SO	1008842				
SO	1008843				

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NOV 29 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 20

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: C Q BARRIE 240 ADELAIDE ST. WEST TORONTO M5H 1W7

Telephone No.: (416) 971-5400

Date: NOV 27/89

Certified By (Signature): [signature]

Received Stamp:

SOUTHERN ONTARIO MINING DIVISION
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NOV 29 1989
AM PM

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1600	Nov. 28, 1989	[signature]
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	[signature]

1362 (89/06)

Res Geologist - Dorset

DOCUMENT NO. W8909.104

Jan 17

Ministry of Northern Development and Mines

Ontario

2.12987

Report of Work
Mining Act
(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s)	Mining Division	Township or Area
AIRBORNE MAG + VLF-EM (Job A-857)	SOUTHERN ONT.	McCLINTOCK TWP.

Recorded Holder(s)	Prospector's Licence No.
MACNAUGHTAN, EARL DANIEL.	A50118

Address	Telephone No.
BOX 1425 63 MEADOW HEIGHTS DRIVE, ONT. BRACEBRIDGE P0B1C0	705-645-2696

Survey Company: TERRA QUEST LTD.

Name and Address of Author (of Geo-Technical Report): C.Q. BARRIE, 240 ADELAIDE ST. W. TORONTO

Date of Survey (from & to): 18 Day 10 Mo. 89 Yr. — 19 Day 10 Mo. 89 Yr.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s).

Date: Nov 28/89 — Recorded Holder or Agent (Signature): E.J. MacNaughtan

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1008817				
SO	1008818				
SO	1008819				
SO	1008820				
SO	1008821				
SO	1008822				
SO	1008823				
SO	1008824				
SO	1008829				
SO	1008830				
SO	1008831				
SO	1008832				
SO	1008833				
SO	1008834				

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NOV 29 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 14

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: C.Q. BARRIE 240 ADELAIDE ST. WEST TORONTO M5H 1W7

Telephone No.: (416)971-5400

Date: Nov 27/89

Certified By (Signature):

Received Stamp:

SOUTHERN ONTARIO MINING DIVISION
RECEIVED
NOV 28 1989
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1120	Nov. 28/89	
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

1362 (89/06)

Res. Geo. Dowsed

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W8909• 107

February 06 LS JAN 27

Mining Act

Report of Work

(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s)	Mining Division	Township or Area
~~EOI3 A-857~~ AIRBORNE MAG + VLF-EM	SOUTHERN ONT.	G-2439 McCLINTOCK TWP.

Recorded Holder(s)	Prospector's Licence No.
WYNNE, KEVIN ALEXANDER.	A50119

Address	Telephone No.
116 MEADOW HEIGHTS DRIVE BRACEBRIDGE ONT.	705-645-9153

Survey Company: TERRA QUEST. LTD.

2.12987

Name and Address of Author (of Geo-Technical Report): C.Q BARRIE. 240 ADELAIDE ST W. TORONTO

Date of Survey (from & to): 15 10 89 (Day Mo. Yr.) — 19 10 89 (Day Mo. Yr.)

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits **Note:** Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	40
	Magnetometer	40
	Other	

Total miles flown over claim(s).

Date	Recorded Holder or Agent (Signature)
NOV 28/89	Kevin Wynne

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
~~SO~~ KU	~~1006741~~	SO	1126044		
~~SO~~ KU	~~1006742~~	SO	1126045		
~~SO~~ KU	~~1006743~~	SO	1126046		
~~SO~~ KU	~~1006744~~	SO	1126047		
~~SO~~ KU	~~1006745~~	SO	1126048		
~~SO~~ KU	~~1006746~~	SO	1126049		
~~SO~~ KU	~~1006747~~	SO	1126050		
~~SO~~ KU	~~1006748~~	SO	1126051		
~~SO~~ KU	~~1006749~~	SO	1126052		
~~SO~~ KU	~~1006750~~	SO	1126053		
SO	1008754				
SO	1008757				
SO	1008758				
SO	1008760				
SO	1008761				
SO	1008762				

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DEC 13 1989
MINING LANDS SECTION

Total number of Mining Claims covered by this report of work: 16

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying	Telephone No.	Date	Certified By (Signature)
C.Q. BARRIE 240 ADELAIDE ST. WEST TORONTO M5H 1W7	(416) 971-5400	NOV 28/89	

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1280	Dec. 8/89	
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

Received Stamp

SOUTHERN ONTARIO MINING DIVISION
RECEIVED
DEC 8
NOV 1989
AM PM

1362 (89/06)

RES. GEO. DORSET

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W9009 • 5

FILE # 2.12987

M.L.S.

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Mining Act

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s)	Mining Division	Township or Area
Airborne - Magnetometer & VLF - EM ✓	Southern Ont ✓	McClintock Twp G2439 ✓

Recorded Holder(s)	Prospector's Licence No.
WC ELLERINGTON ✓	A50148 ✓

Address	Telephone No.
PO Box 153, Dorset Ont. P0A1E0 ✓	705-766-2284 ✓

Survey Company: Terraque ST Ltd - 240 Adelaide ST West Toronto. Ont ✓

Name and Address of Author (of Geo-Technical Report): C/O BARRIE - 240 Adelaide ST. W. Toronto Ont

Date of Survey (from & to): 18 10 89 (Day Mo. Yr.) — (Day Mo. Yr.) ✓

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40 ✓
	Other	

Total miles flown over claim(s).

Date	Recorded Holder or Agent (Signature)
9th Jan 1990	WC Ellerington ✓

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1040372 ✓				

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JAN 10 1990
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 1 ✓

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: William C Ellerington P.O. Box 153 Dorset Ont. P0A1E0

Telephone No.	Date	Certified By (Signature)
705-766-2284	9th Jan 1990	WC Ellerington ✓

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
MAR - 5 1990
RECEIVED

SOUTHERN ONTARIO MINING DIVISION
RECEIVED
JAN - 9 1990
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

Received Stamp

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
80	Jan 9/90	RECEIVED
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 2/90	

1362 (89/06)

Ministry of Northern Development and Mines
Ontario

DOCUMENT No. W9009 • 26 2.12987

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Mining Act

Report of Work (Geophysical, Geological and Geochemical Surveys)

JOB A-857

Type of Survey(s): AIRBORNE MAG & VLF-EM	Mining Division: SOUTH ONT.	Township or Area: G4239 MCCLINTOCK TWP.
Recorded Holder(s): HENRY JAMES PRICE 2.12987		Prospector's Licence No.: A50120
Address: 59 DELISLE AVE., #2, TORONTO M4V 1S8		Telephone No.: 416-323-0209
Survey Company: TERRAQUEST LTD.		
Name and Address of Author (of Geo-Technical Report): C.Q. BARRIE 240 ADELAIDE ST. W. TORONTO	Date of Survey (from & to): 18 10 89 (Day Mo. Yr.)	19 10 89 (Day Mo. Yr.)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	40
	Magnetometer	40
	Other	
Total miles flown over claim(s).		

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SO	1040327				
	1040326				
	1040325				
	1040324				
	1040323				
	1040322				
	1040321				
	1040328				
	1040329				

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MAY 16 1990
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 9

Date: May 15, 1990 | Recorded Holder or Agent (Signature): Henry James Price

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: FRED R. SWAIN, Box 1325, BRACEBRIDGE, ONT.

Telephone No.: 705-645-4109 | Date: May 11/90 | Certified By (Signature):

Received Stamp

SOUTHERN ONTARIO MINING DIVISION
RECEIVED
MAY 15 1990
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
720	May 15/90	D. Gallagher (acting)
	Date Approved as Recorded: 4 June 90	Provincial Manager, Mining Lands

RJS.

1362 (89/06)

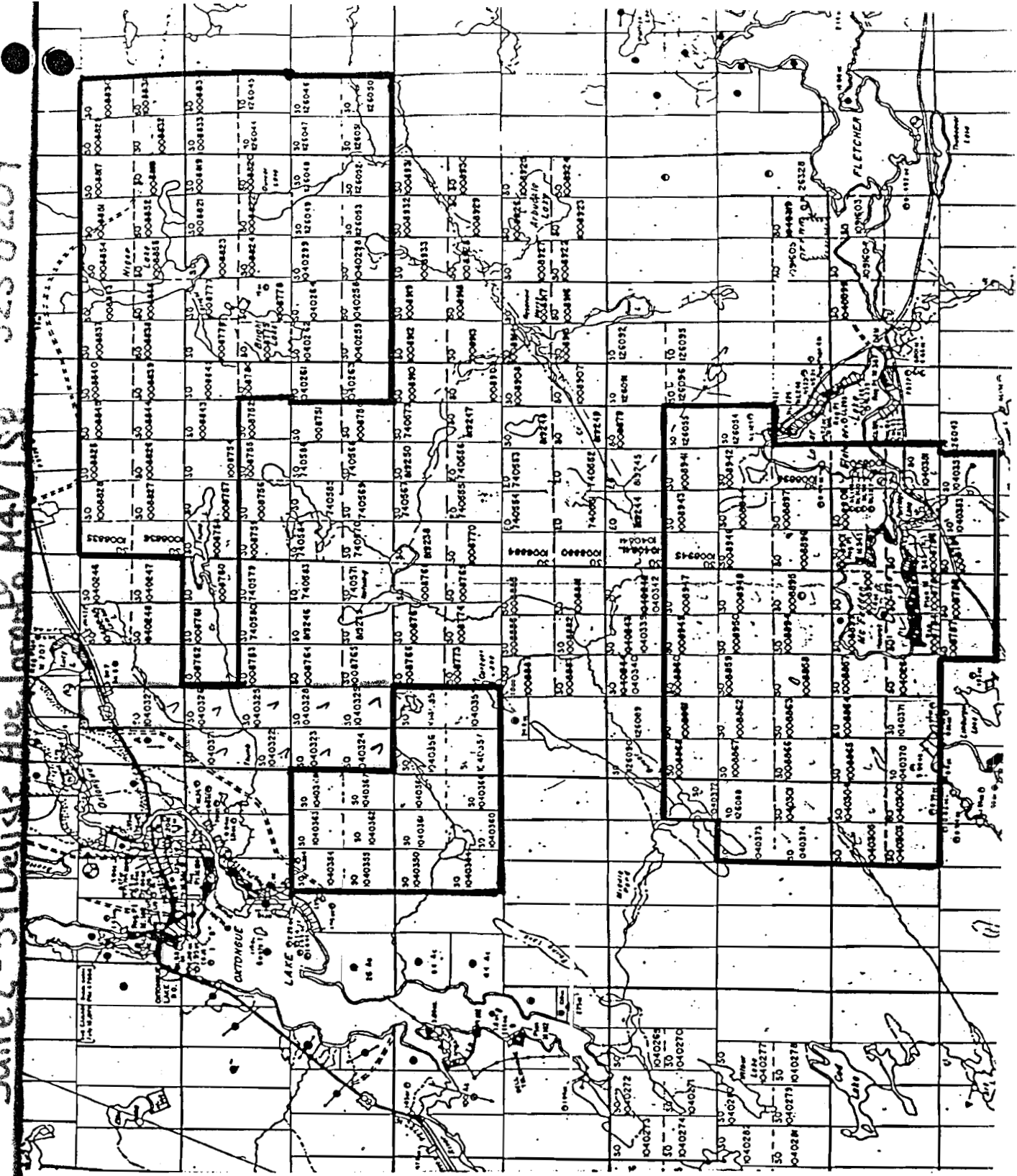

FIGURE 2. SURVEY AREA

(exact claim location; not certified)

TERRAQUEST LTD.