



52F11NE0228 2.7820 BUCHAN BAY (EAGLE LA

010

B-429

REPORT ON AN
AIRBORNE MAGNETIC AND VLF-EM SURVEY
EAGLE LAKE AREA
KENORA MINING DIVISION, ONTARIO

for

JONPOL EXPLORATIONS LIMITED

RECEIVED
FEB 18 1985
MINING LANDS SECTION

by

TERRAQUEST LTD.
Toronto,

February, 1985



52F11NE0228 2.7820 BUCHAN BAY (EAGLE LA

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1. INTRODUCTION

A combined airborne magnetic and VLF-EM survey was carried out on a block of 113 claims located in The Eagle Lake Area, in the Kenora Mining Division, Ontario. The claim holder is John A. Pollock, 26 Wellesbourne Crescent, Willowdale, Ontario. The work was carried out by Terraquest Ltd., 111 Richmond Street West, Toronto during the period December 1, 1984 to February 20, 1985.

The survey area was covered by a grid of parallel flight lines spaced 100 metres apart and aligned north-south.

The purpose of the survey was to assist in mapping geology and to explore for shear zones, faults, and other structures potentially favourable to gold or base metal mineralization.

2. THE PROPERTY

The property occupies a large peninsula jutting into Eagle Lake from the south. The property is very accessible by boat, snowmobile, or aircraft from the Eagle River Settlement which lies approximately 8 km to the north across Eagle Lake. Eagle River itself is reached from the Trans-Canada Highway on Highway 594 some 14 km east of Vermillion Bay. The city of Dryden is 24 km to the east-northeast.

Latitude and longitude are 49°41' and 93°10' respectively and the NTS reference is 52 F/11.

A list of claim numbers is given below:

K 638867 to 638899	K 638982 to 638987
k 638903 to 638911	K 638989 to 638995
K 638914 to 638923	K 677759-60
K 638927 to 638930	K 677764-64
K 638940 to 638961	K 677908-09
K 638965 to 638974	K 677914-15
K 638977	K 677921 to 677923

51°
50°
49°
48°

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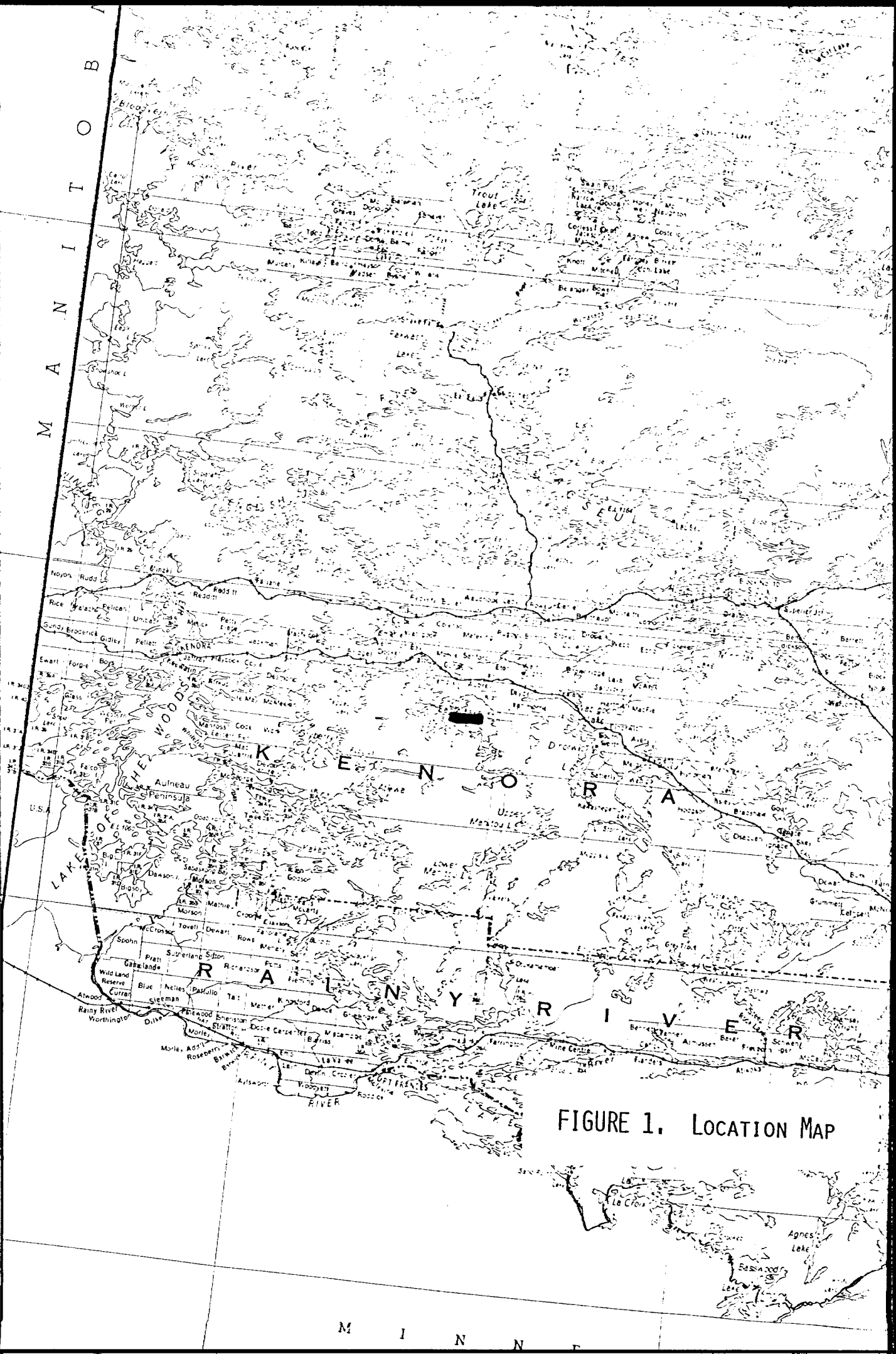
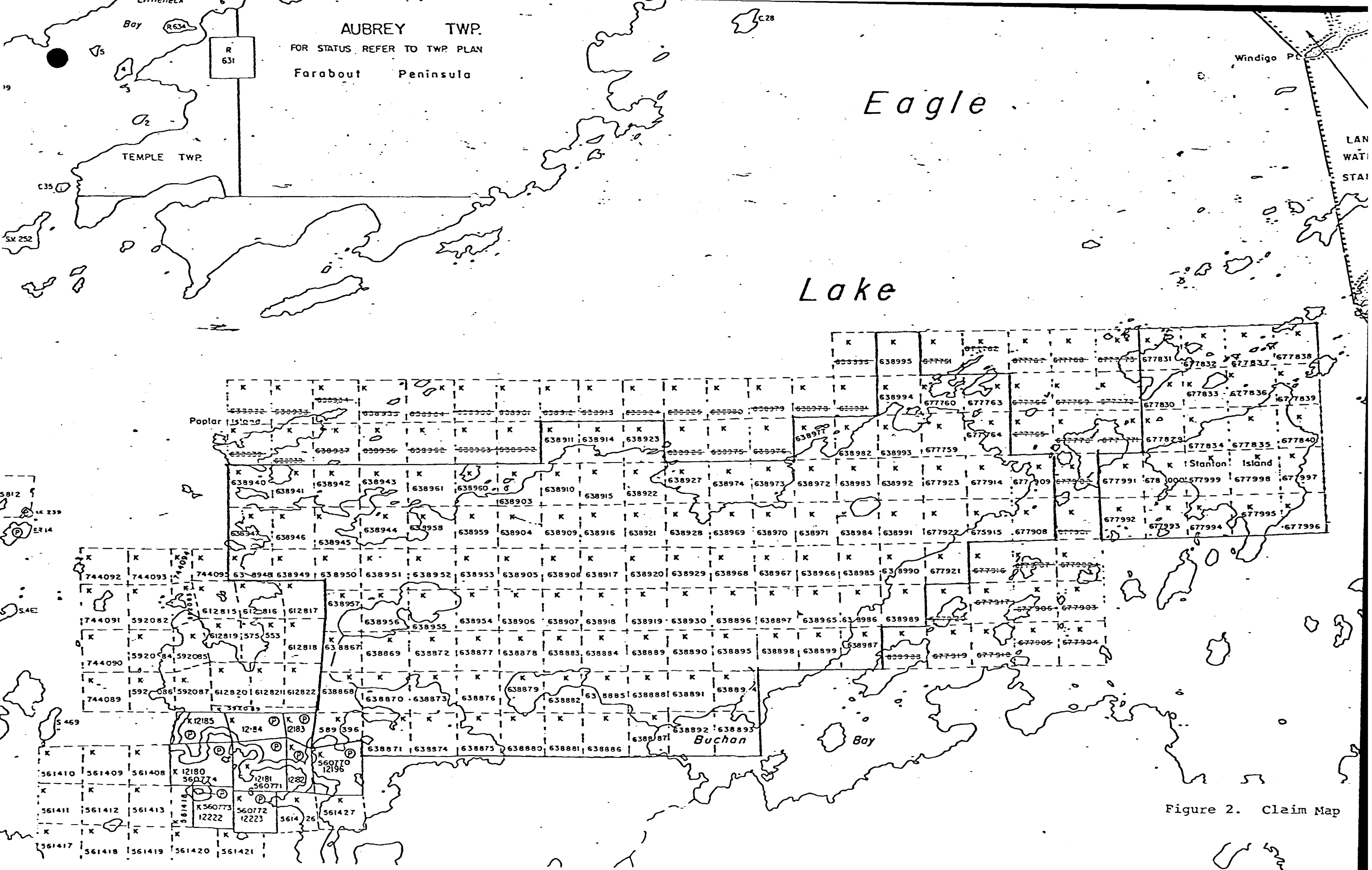


FIGURE 1. LOCATION MAP

M
I
N
N
E



AUBREY TWP.

FOR STATUS REFER TO TWP PLAN

Farabout Peninsula

Eagle

Lake

TEMPLE TWP.

Poplar Island

Stanton Island

Buchan

Bay

Figure 2. Claim Map

3. GEOLOGY

Map References

1. Map 48d, Eagle Lake Area, O.D.M., 1939
2. Moorhouse, W.W., Geology of the Eagle Lake Area, 48th Annual Report, 1939.

The central part of the claim block is underlain by a broad formation of altered intermediate and acid volcanics and porphyrys. They are bounded to the north by older volcanics including intermediate tuffs, agglomerates and breccias, and to the south by pillow lavas. The general strike of all the formations is east-northeast. The property includes the old gold showing of Manhattan Gold Mines Company at the north end of Buchan Bay. Ajoining the property to the west is the Fornieri find and Birch Bay Gold Mines Property Limited. These showings are mainly free gold in quartz veins and are described by Moorhouse.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The present survey was carried out using airborne instruments with the sensor elements mounted in the wing tips of a Cessna 182 aircraft, registration C-FAKK. The magnetic field was measured with a proton precession magnetometer model GSM-8BA, manufactured by GEM Systems, Toronto. The VLF-EM field was measured with a three component total field strength instrument, model TOTEM-2A, manufactured by Herz Industries Ltd., Toronto. Terrain clearance is measured by a King KRA-10A Radar Altimeter. Data from these three instruments are processed by a UDAS-100 data processor, manufactured by Urtec Ltd. and then recorded onto a ninetrack tape recorder, and printed as profiles on a thermal printer in real time on the aircraft (Fig. 3). A Geocam video tape system is used to follow the flight path, and fiducial numbers generated by the UDAS-100 are recorded onto the video images.

Full specifications of the instruments are given in Appendix A.

TERRAQUEST

DTE 09 01 85 TM 12 28 20 BY: M.M.
ACFT C-FAKK PN 8437 FLTN 051

PRG.VER.280124-GRAD.
SURALT 100M

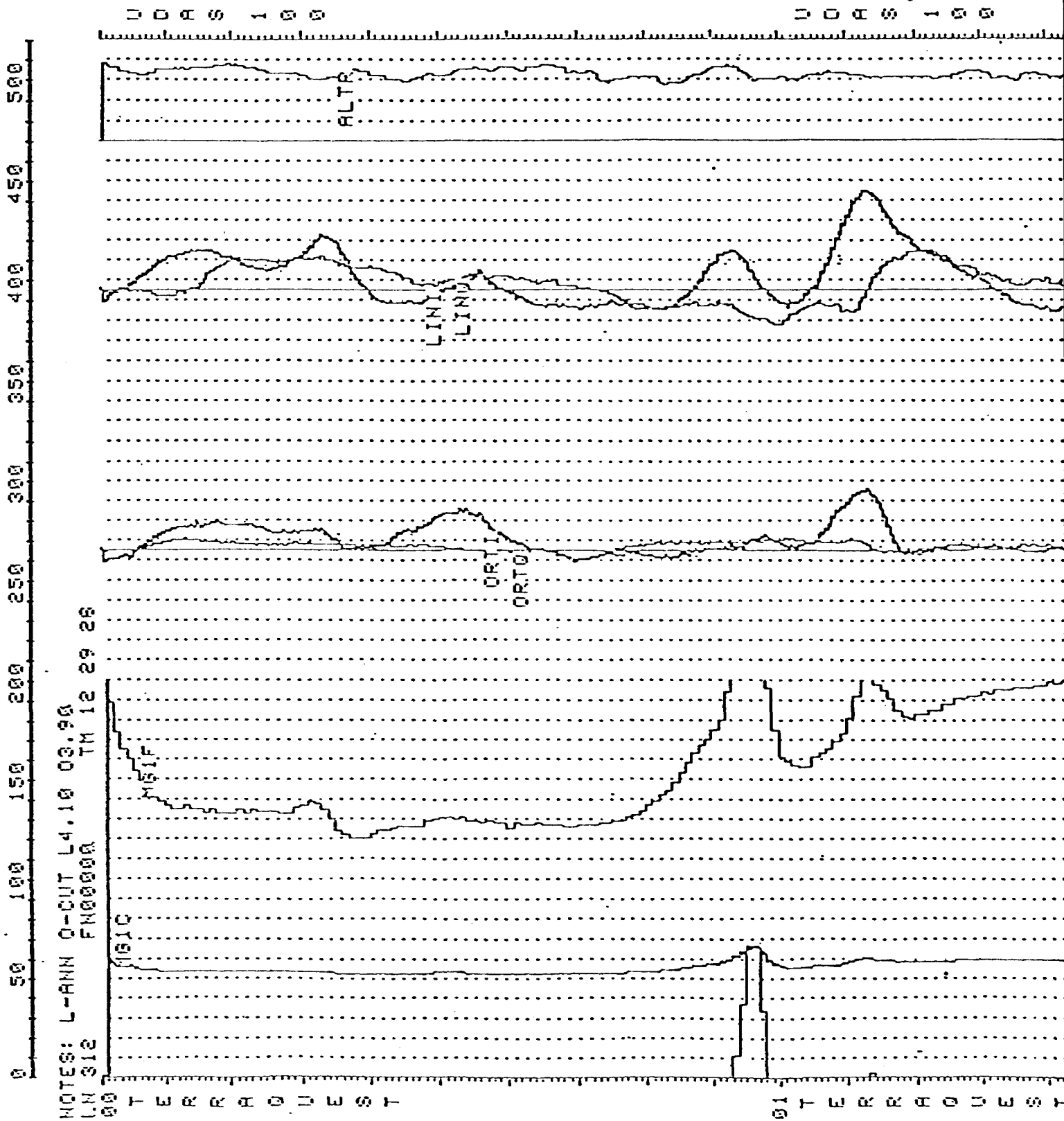


FIGURE 3. SAMPLE OF ANALOGUE DATA

4.2 Lines and Data

- a) Line spacing 100 metres
- b) Line direction 0 degrees (astr.)
- c) Flying height 100 metres
- d) Flying speed 156 km/hr
- e) Data point interval:
 - magnetic 42 metres
 - VLF EM 21 metres
- f) Tie Line interval 2 kilometres
- g) VLF transmitter tuned in Ch.#1 (Line)- Cutler, Ma., 24.0 kHz.
- h) VLF transmitter tuned in Ch.#2 (Ortho) Annapolis, Md., 21.4 kHz.
- i) Line kilometres within the claim boundaries - 184
- j) Line kilometres over total survey area - 474

4.3 Tolerances

- a) Line spacing: Any gaps longer than one kilometre and wider than twice the line spacing were re flown.
- b) Flying height: Portions of line longer than one km which were above 125 metres were re flown if safety considerations were acceptable.
- c) Magnetic diurnal: Less than twenty gammas (nanotesla) deviation from a smooth background over a period of two minutes or less as seen on base station analogue record.
- d) Manoeuvre noise: approximately ± 5 gammas.

4.4 Photo mosaics

For navigating the aircraft and recovering the flight path, photo mosaics were made at final map scale from existing air photos. In order to provide a semi-controlled base the airphotos were laid down on a topographic map which had been photographically adjusted to match the photo scale. The laydown was then photographed and printed at 1:10,000 scale for navigating and flight path recovery.

5.0 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 remaining data processing was carried out in the offices of Dataplotting Services Inc. in Toronto.

Magnetic levelling was computed in the standard manner by tying survey lines to the tie lines. The VLF-EM data was corrected by applying the following formula:

(A) Total Field Strength

$$V = \frac{SM + 100}{K} \quad \text{where} \quad K = \frac{S(A - 2R) + 100}{100}$$

V = final corrected value in %

M = raw data value from the magnetic tape

S = scale factor

A = average of all M on a given line.

R = standard deviation of A

(B) Quadrature

$$Q = \frac{SN}{K} \quad \text{where} \quad K = \frac{SB + 100}{100}$$

N = raw data

B = average of all N

The vertical magnetic gradient is computed from the total field data using a widely accepted method of transforming the data set into the frequency domain, applying a transfer function to calculate the gradient, and then transforming back to the spatial domain. The method is described by a number of authors including Grant, 1972, and Spector, 1968.

Grant, F. S., Review of data processing and interpretation methods in gravity and magnetics, Geophysics, August 1972.

Spector, A., 1968, Spectral analysis of aeromagnetic maps: unpub. University of Toronto thesis.

These calculations, and all other corrections and map contouring were carried out by Dataplotting Services Inc. of Toronto.

6.0 INTERPRETATION

The magnetic pattern confirms the east-northeast direction of geology as has been mapped. There is not a clear distinction between the rhyolites and the intermediate-to-basic volcanics. A large number of narrow, linear magnetic anomalies, aligned east-northeast, are seen in both the rhyolite and the basic volcanics. For this interpretation they have been classified as strong or moderate magnetic units within the volcanics, and are attributed to formations of both units containing magnetic materials such as chlorite schist, basalt, pillow lavas, basic intrusives and other basic rock types. The boundaries of these units have been selected from the vertical gradient information which has been found to be more useful than the total field in defining the outline of individual units.

The total field map shows a number of areas of low magnetic activity which cross or otherwise interfere with the general east-northeast trend of magnetic rocks. These can be seen particularly well in the colour plots of the total fields. The one that lies at the west end of the property would appear to be in contact with the large granitic intrusion to the west and it

is tentatively proposed that the low magnetic activity is caused by alteration of the magnetite as a result of the intrusion. It is common in these cases for the magnetite to be destroyed leaving the altered part of the volcanics comparatively quiet magnetically. There are smaller regions similar to this in the very center of the property and at the north boundary in the center. These three regions have been outlined by a double line on the interpretation map to indicate a proposed zone of alteration. It is interesting to note that both the Fornieri showing and the Birch Bay showing lie in the westernmost of these three areas, and that the Manhattan Gold showing is close to the contact of a small zone in the center.

It would follow that the top priority areas for gold prospecting might be within the proposed zones of alteration or within a few hundred metres of their contacts in the volcanics.

The linear magnetic anomalies show a number of lateral displacements and these are interpreted tentatively as faults.

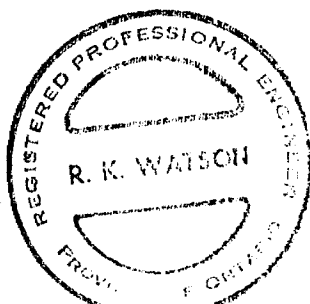
The VLF conductor axes interpreted from the VLF contour pattern generally align themselves with the regional geology. One strong conductor just north of the Manhattan Gold showing confirms a fault interpreted from the magnetic data. It is recommended that the major conductors be inspected to see if they conform to thick

overburden and, if not, be considered for follow-up on the ground by conventional electromagnetic or induced polarization methods.

7. SUMMARY

A combined magnetic and electromagnetic survey has been completed over the claim block at a density of approximately 1 mile of survey traverse per mineral claim. The geology map has been modified considerably from the magnetic and VLF information and a number of alteration zones are proposed as potential prospecting areas.

TERRAQUEST LIMITED



Roger K. Watson, B.A.Sc., P.Eng.

Geophysicist

Inv. 63.1498

APPENDIX A

GSM - 8 BA AIRBORNE PROTON MAGNETOMETER

SPECIFICATIONS

Resolution: 0.5 gamma

Accuracy: ± 1 gamma over operating range

Range: 20,000-100,000 gamma in 23 overlapping steps

Gradient Tolerance: Up to 5,000 gamma/meter

Output: VISUAL: 5 digit 1 cm (0.4") high
Liquid Crystal Display, visible in any ambient light

DIGITAL: Multiplied precession frequency and gating pulse

ANALOGUE: 0-99 gamma (optional)

External Trigger: Externally triggered cycling with period of 1.00 sec.

Power Requirements: 28V DC, 8Ws per reading

Operating Temperature: -40 to +55C

Dimensions: Console: 15x8x15 cm (6x3 $\frac{1}{4}$ x6")
Sensor: 14x7 cm dia (5 $\frac{3}{4}$ x2 $\frac{3}{4}$ " dia)
Staff: 175 cm (70") extended, 53 cm (21") collapsed or sectional 45 cm (18") each section

Weight: 2.7 kg (6 lb) complete, 2.3 kg (5 lb) in back-pack mode

Manufacturer: Gem Systems Inc.
105 Scarsdale Rd.
Don Mills, Ontario M3B 2R5

Totem 2A

Multi channel

VLF Electromagnetic
airborne survey instrument

Specifications

Introduction.

The Totem-2A measures basically the same parameters and shares the same package configuration as the well established Totem-1A.

This new generation instrument, however, measures multiple parameters on two channels simultaneously, with less noise and greater accuracy. These advancements have been achieved while maintaining the simple installation and operating procedures of the 1A model.

The Totem-2A employs state of art digital and linear integrated circuits to implement the functions of crystal controlled phase locked loop frequency synthesizers, dual frequency heterodyne conversion and proprietary time domain sampling vector computation techniques.

Features.

The principal parameters measured are the change in total field and the vertical quadrature field. Parameters also available are the total field gradient (from sensors in two locations) and the horizontal quadrature field. The quadrature polarity is defined by the direction of flight relative to the field. The total and quadrature magnitudes are insensitive to sensor orientation in pitch, roll and yaw.

One obvious advantage of dual frequency operation is that primary sources can be selected to ensure good coupling with conductors of any orientation. Potential uses of the gradient mode are enhanced interline contouring and deliniation of multiple conductors with horizontal and vertical gradient respectively.

Specifications subject to change.

Primary source:	Magnetic field component radiated from VLF radio transmitters (one or two simultaneously).
Parameters measured:	Total field, vertical quadrature, horizontal quadrature, gradient.
Frequency range:	15kHz to 250kHz front panel selectable for each channel in 100Hz steps.
Sensitivity range:	130uV.m to 100mV.m at 20kHz, 3dB down at 14kHz and 24kHz.
VLF signal bandpass:	-3dB at ± 80 Hz, $< 4\%$ variation at ± 50 Hz.
Adjacent channel rejection:	300 to 800Hz = 20 to 32dB, 800 to 1500Hz = 32 to 40dB, > 1500 Hz > 40 dB (for $< 2\%$ noise envelope).
Out of band rejection:	10kHz to 2.5kHz = 5×10^{-4} A.m to 5×10^{-1} A.m < 2.5 kHz rising at 12dB octave 30kHz to 60kHz = 5×10^{-4} A.m to 8×10^{-3} A.m > 60 kHz rising at 6dB octave (for no overload condition).
Output span:	$\pm 100\% = \pm 1.0$ V
Output filter:	Time constant 1sec for 0 to 50% or 10% to 90%, noise bandwidth 0.3Hz (second order LP).
Internal noise:	1.3uV.m rms (ambient noise will exceed this).
Sferics filter:	Reduces noise contribution of impulse interference.
Electric field rejection:	$< 0.5\%$ error for 20m tow cable.
Controls:	Power switch, frequency selector switches (line & ortho) level controls (line & ortho), meter switch (total/quad) sferics filter switch.
Displays:	Meters (line & ortho), sferics light, overload light.
Inputs:	Power, 23 to 32 Vdc fused 0.5Amp. Signal, Sensor upper, Sensor lower.
Outputs:	Total, quad, gradient, multiplexed (line & ortho). Audio monitor, stereo line & ortho.
Dimensions & weight:	Console 19" rack mounted, 4.5cm high x 34cm deep, 3.8kg. Sensor and pre-amplifier assembly 15cm dia. and 46cm long, 1.5kg.

URTEC MODEL — UDAS-100

SPECIFICATIONS: UNIVERSAL DATA ACQUISITION SYSTEM URTEC MODEL — UDAS-100

BASIC UDAS

MICROPROCESSOR AND MEMORY:

- Texas Instruments TMS 9900 - 16 BIT with built in multiply and divide hardware.
- Total memory expandable to 32k words.
- Basic system contains:
 - 16k - 16 bit word RAM
 - Up to 8k - 16 bit word EPROM
 - Cartridge program loading
 - 12k - Bytes of non volatile RAM program storage (optional)

INPUTS AND OUTPUTS

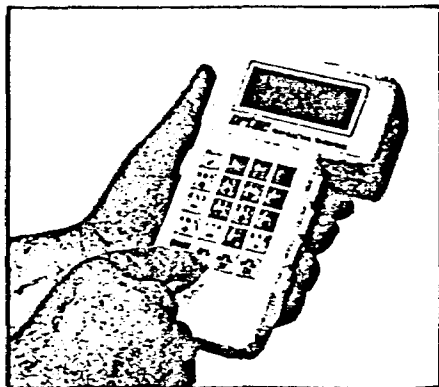
- Analog input: 16 differential input channels with 12 bit resolution at $\pm 5V$ full scale
- Analog output - up to 16 channels (optional)
- 30 addressable ports for multiple byte transfer
- 56 input/output lines for BCD and binary data information (transferred in multiples of 8 bit bytes)
- 3 pulse accumulator inputs for frequency and pulse information. (eg. — Doppler navigation and radar altimeter).
- 2 digital spectrometer inputs. (eg. upward and downward detectors selectable at 256 or 512 channels)
- 1 RS 232 serial port for interactive keyboard and display
- 1 RS 232 serial port for addition of CRT floppy disks and other terminals.
- 1 same protocol as RS 232 with TTL level
- 1 operator controlled fiducial input (switch or keyboard activated)
- Y output for graphic display on oscilloscope
- High speed data transfer-lines GPIB — IEEE-488 compatible

INTERFACES:

- Magnetometer control and signal input for proton or cesium magnetometers
- Error condition indicator level for remote monitoring of diagnostic tests.
- Controller and outputs for two 9 track 1/2 inch magnetic tape units.
- Printer/Recorder controller.
- Digital interface to navigation camera (8 digits of fiducial and coding information).
- Controller for magnetic tape cartridge (program loader)
- Disk storage interfaced via RS-232 or GPIB — IEEE-488 BUS

CONTROLS:

- System power on/off switch
- Keyboard with 24 character alphanumeric display. Keyboard/display can be operated on main console or remotely
- Manual start and load of Julian clock and fiducial numbers.
- All control functions interrogate with YES or NO answer.



Hand Held Interactive Terminal

SOFTWARE:

The basic system is supplied with the necessary programs (on magnetic cartridge) to execute routine operational functions and standard survey requirements. Additional dedicated programs are also included to provide:

- Spectrometer Calibration
- Automatic resolution check
- Full spectra printout on recorder/printer
- Continuous monitoring of system gain using natural "K" photopeak
- Automatic window adjustments
- Fast total count sampling (0.1 sec) for point sources resolution.
- Selective graphic display options.
- Read after write data verification.
- Selective data tape dump
- Magnetic tape copy (optional)
- Data processing and plotting program (optional)
- Diagnostic test programs
- A variety of additional special functions programs are available on request.

PRINTER/RECORDER

CONTROLS

- Power on/off switch
- Automatic paper feed
- Print contrast control
- On/off print head control
- Automatic take-up spool

FORMATS

- Alphanumeric, complete ASCII character set. Thermal 5 x 7 dot matrix
- Graphics 70 x 70 dots per inch resolution
- Software programmable under UDAS control
- Records up to 16 analog traces each with variable O and F.S. setting. Traces can be stacked or overlapping. Software controlled. Trace position and amplitude can be adjusted via interactive keyboard.
- Overflow is automatic by digital stepping.
- Complete alphanumeric annotations can be printed on recording chart (eg. name of project and survey area details, fiducial numbers, time, recording scales and parameters etc.)

PAPER

- Thermosensitive paper 222mm (8.75 in.) wide, 30 meter (100 ft.) long
- Thermal print head is board mounted and easy to replace

POWER

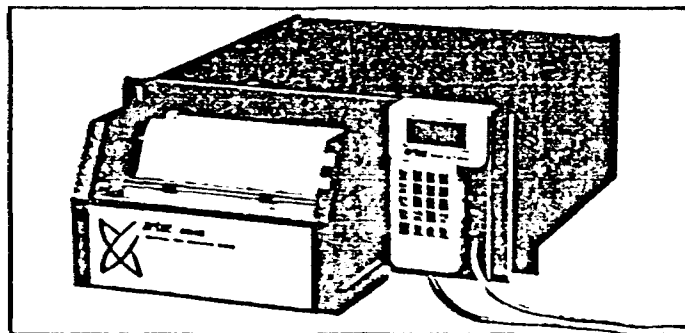
- 24 - 28VDC 3.0 A average

WEIGHT

- 15.6 kg. 35 lbs.

DIMENSIONS

- 48.2 cm (19 in.) wide, 17.8 cm (7.0 in.) high, 40.6 cm (16 in.) deep (standard rack mount).



UDAS-100 Console with Printer/Recorder Extended

FOR FURTHER INFORMATION CONTACT

urtec

INSTRUMENTS SALES LIMITED



52F11NE0228 2.7820 BUCHAN BAY (EAGLE LA

900

Mining Lands Section

File No 2.7820

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

1901

LD

Rong

 Signature of Assessor

19/2/85

 Date



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

W 84 - 01 - 308
FWM
2.7820
Mining Act

1 of 4
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.

308-84
Feb 84

Type of Survey(s) **AIRBORNE GEOPHYSICAL** Township or Area **G. 2573**
Buchen Bay
 Claim Holder(s) **JOHN A. POLLOCK In Trust** Prospector's Licence No. **K-19062**
 Address **26 Wellesbourne Crescent Willowdale Ontario**
 Survey Company **TERRAQUEST LTD.** Date of Survey (from & to) **2 12 84 4 12 84** Total Miles of line Cut
 Name and Address of Author (of Geo-Technical report) **Roger K. Watson, Terraquest Ltd, 1214-111 Richmond St. W., Toronto M5H 2G4**

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	638867	80	K	638890	80
	638868	80		638891	80
	638869	80		638892	80
	638870	80		638893	80
	638871	80		638894	80
	638872	80		638895	80
	638873	80		638896	80
	638874	80		638897	80
	638875	80		638898	80
	638876	80		638899	80
	638877	80			
	638878	80			
	638879	80			
	638880	80		638903	80
	638881	80		638904	80
	638882	80		638905	80
	638883	80		638906	80
	638884	80		638907	80
	638885	80		638908	80
	638886	80		638909	80
	638887	80		638910	80
	638888	80		638911	80
	638889	80			

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 =

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.

Total number of mining claims covered by this report of work. **113**

Date **Dec. 6/1984** Reported Holder or Agent (Signature) *John Pollock*

For Office Use Only

Total Days Cr. Recorded **9040** Date Recorded **Dec. 10/84** Mining Records Director *M. J. ...*

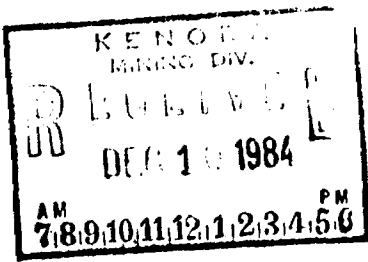
Date Approved as Recorded **8.5.21**

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 **Charles G. Berris, TERRAQUEST LTD. 1214-111 Richmond St. W., Toronto M5H 2G4**

Date Certified **Dec. 4, 1984** Certified by (Signature) *Charles G. Berris*



638869



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

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.

#308-84
Mining Act

2014

Type of Survey(s)		Township or Area	
Claim Holder(s)		Prospector's Licence No.	
Address			
Survey Company	Date of Survey (from & to)		Total Miles of line Cut
	Day Mo. Yr.	Day Mo. Yr.	
Name and Address of Author (of Geo-Technical report)			

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	6389 14	80	K	6289 40	80
	6389 15	80		6389 41	80
	6389 16	80		6389 42	80
	6389 17	80		6389 43	80
	6389 18	80		6389 44	80
	6389 19	80		6389 45	80
	6389 20	80		6389 46	80
	6389 21	80		6389 47	80
	6389 22	80		6389 48	80
	6389 23	80		6389 49	80
				6389 50	80
	6389 27	80		6389 51	80
	6389 28	80		6389 52	80
	6389 29	80		6389 53	80
	6389 30	80		6389 54	80
				6389 55	80
				6389 56	80
				6389 57	80
				6389 58	80
				6389 59	80

Expenditures (excludes power stripping)

Type of Work Performed: **RECEIVED**

Performed on Claim(s): **DEC 17 1984**

Calculation of Expenditure Days Credits: **MINING LANDS SECTION**

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.

Total number of mining claims covered by this report of work: **113**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
Date Approved as Recorded	Branch Director	

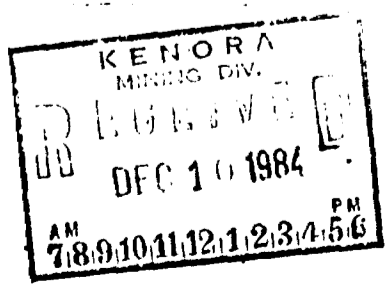
Date: Recorded Holder or Agent (Signature):

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:

Date Certified: Certified by (Signature):



Type of Survey(s)		Township or Area	
Claim Holder(s)		Prospector's Licence No.	
Address			
Survey Company		Date of Survey (from & to)	Total Miles of line Cut
		Day Mo. Yr.	Day Mo. Yr.
Name and Address of Author (of Geo-Technical report)			

Credits Requested per Each Claim in Columns at right

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	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	638960	80	K	638983	80
	638961	80		638984	80
				638985	80
				638986	80
				638987	80
	638965	80			
	638966	80		638989	80
	638967	80		638990	80
	638968	80		638991	80
	638969	80		638992	80
	638970	80		638993	80
	638971	80		638994	80
	638972	80		638995	80
	638973	80			
	638974	80		677759	80 ✓
				677760	80 ✓
	638977	80			
				677763	80 ✓
				677764	80 ✓
	638982	80			

Expenditures (excludes power stripping)

Type of Work Performed **RECEIVED**

Performed on Claim(s) **DEC 17 1984**

MINING LANDS SECTION

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.

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

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

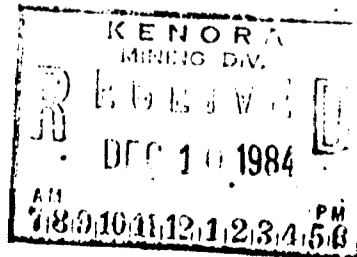
Date Recorded Holder or Agent (Signature)

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

Date Certified Certified by (Signature)



26
1A
12
1A
20
11

Mining Act

Type of Survey(s)		Township or Area	
Claim Holder(s)			Prospector's Licence No.
Address			
Survey Company	Date of Survey (from & to)		Total Miles of line Cut
		Day Mo. Yr.	Day Mo. Yr.
Name and Address of Author (of Geo-Technical report)			

Credits Requested per Each Claim in Columns at right

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	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K			K		
				677 908	80 ✓
				677 909	80 ✓
				677 914	80 ✓
				677 915	80 ✓
				677 921	80 ✓
				677 922	80 ✓
				677 923	80 ✓

Expenditures (excludes power stripping)

RECEIVED

Type of Work Performed: DEC 17 1984

Performed on Claim(s): MINING LANDS SECTION

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.

Date: [] Recorded Holder or Agent (Signature): []

Total number of mining claims covered by this report of work: []

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

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: []

Date Certified: [] Certified by (Signature): []

KEPORA
MINING DIV.
DEC 10 1984
7 8 9 10 11 12 1 2 3 4 5 6 PM



17. Feb 22 1985

The Mining Act

In the matter of mining claims:

- K 638867 to 99 incl
- 638903 to 11 incl
- 638914 to 23 incl
- 638927 to 30 incl
- 638940 to 61 incl
- 638965 to 74 incl
- 638977
- 638982 to 87 incl
- 638989 to 95 incl
- 677759-60
- 677763-64
- 677908-09
- 677914-15
- 677921 to 23 incl

RECEIVED

FEB 18 1985

MINING LANDS SECTION

in the area of Buchan Bay.

On consideration of an application from the recorded holder, John A. Pollock
 under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of
 Airborne Geophysical (Electromagnetic & Magnetometer) assessment work recorded on December 10, 1984
 be extended until and including February 22, 1985.

1985.02.02

Date

Signature of Director, Land Management Branch

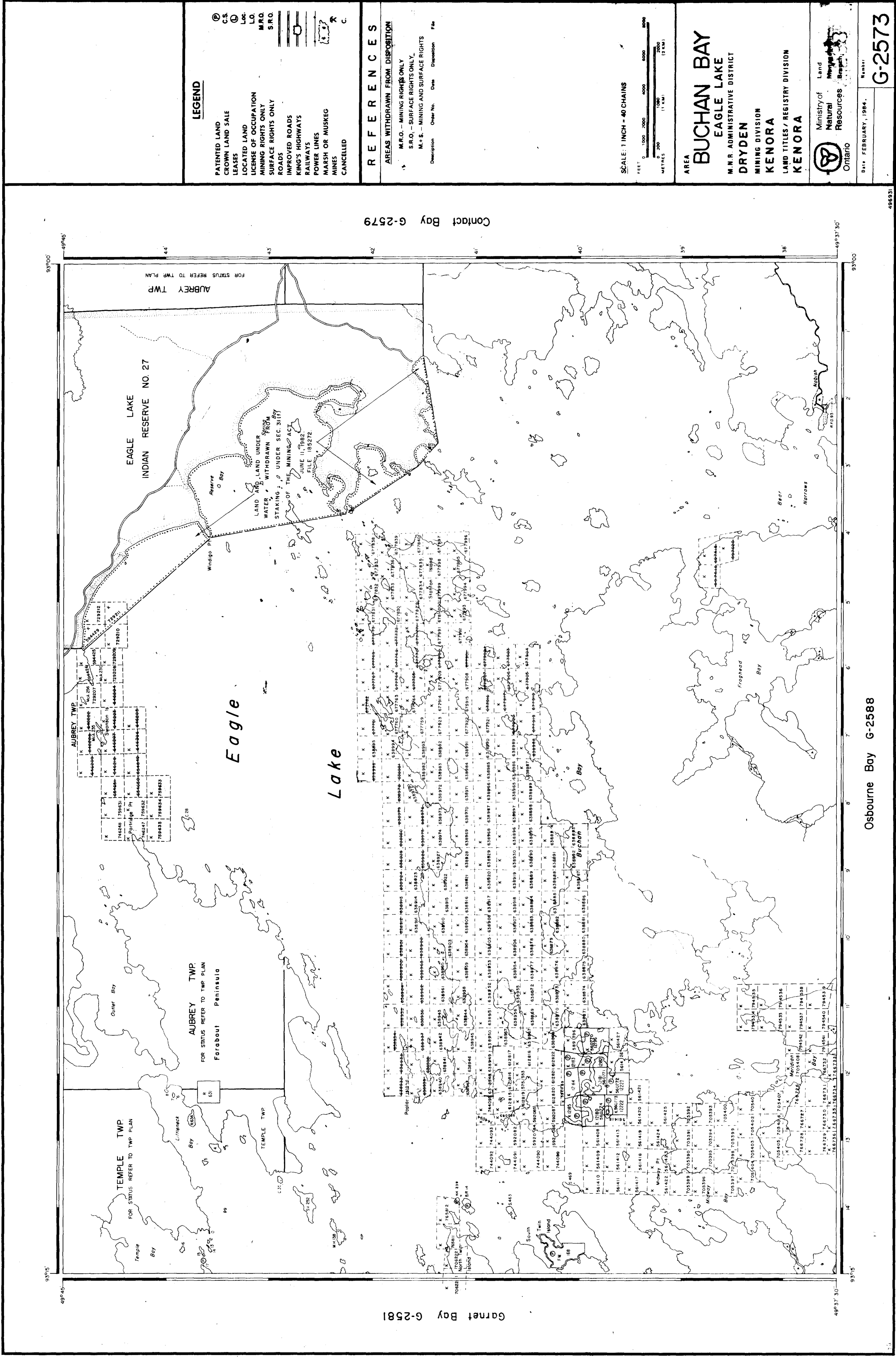
Copies: John A. Pollock, In Trust
 26 Wellesbourne Crescent
 Willowdale, Ontario
 Terraquest Limited
 1214 - 111 Richmond Street West
 Toronto, Ontario
 M5H 2G4

cc: Mining Recorder
 Kenora, Ontario
 ✓ File 308-84

R
O.K.

TRIM LINE

TRIM LINE



LEGEND

PATENTED LAND
 CROWN LAND SALE
 LEASES
 LOCATED LAND
 LICENSE OF OCCUPATION
 MINING RIGHTS ONLY
 SURFACE RIGHTS ONLY
 ROADS
 IMPROVED ROADS
 KING'S HIGHWAYS
 RAILWAYS
 POWER LINES
 MARSH OR MUSKEG
 MINES
 CANCELLED

CS
 C
 L.O.
 M.R.O.
 S.R.O.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION
 M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.F.S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

SCALE 1 INCH = 40 CHAINS
 FEET 0 1000 2000 4000 8000 16000
 METRES 0 100 200 400 800 1600

AREA
BUCHANAN BAY
EAGLE LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
DRYDEN
 MINING DIVISION
KENORA
 LAND TITLES / REGISTRY DIVISION
KENORA

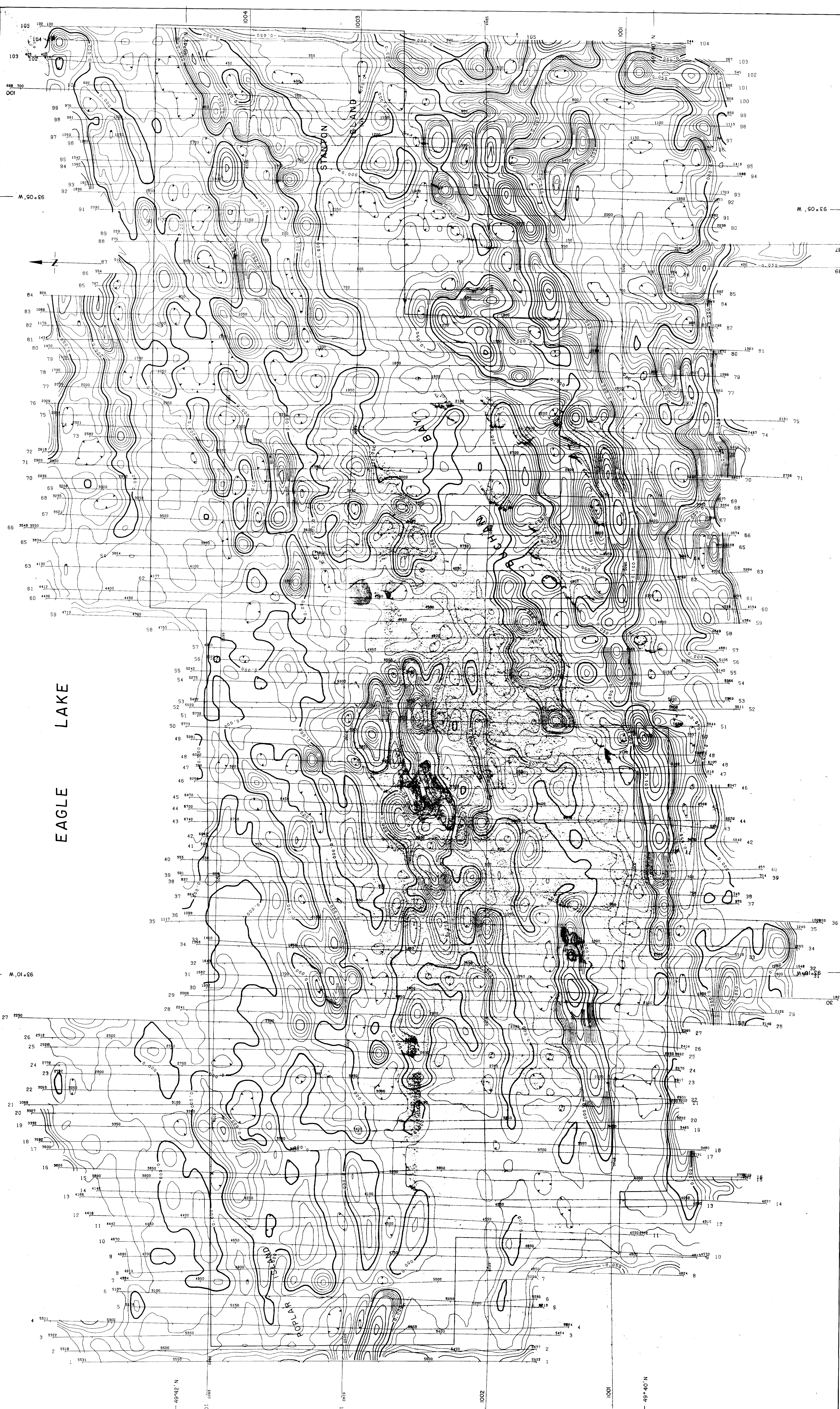
Ontario
 Ministry of Natural Resources
 Land Management Branch

DATE: FEBRUARY, 1984.
 PLAN: **G-2573**

49°45' 49°50' 49°55' 93°15' 93°20' 93°25' 93°30'

Osbourne Bay G-2588
 Contact Bay G-2579
 Garnet Bay G-2581



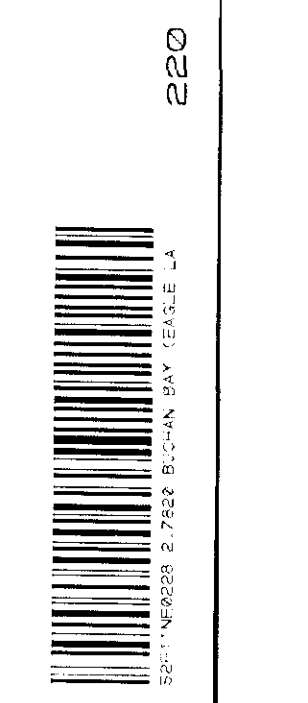


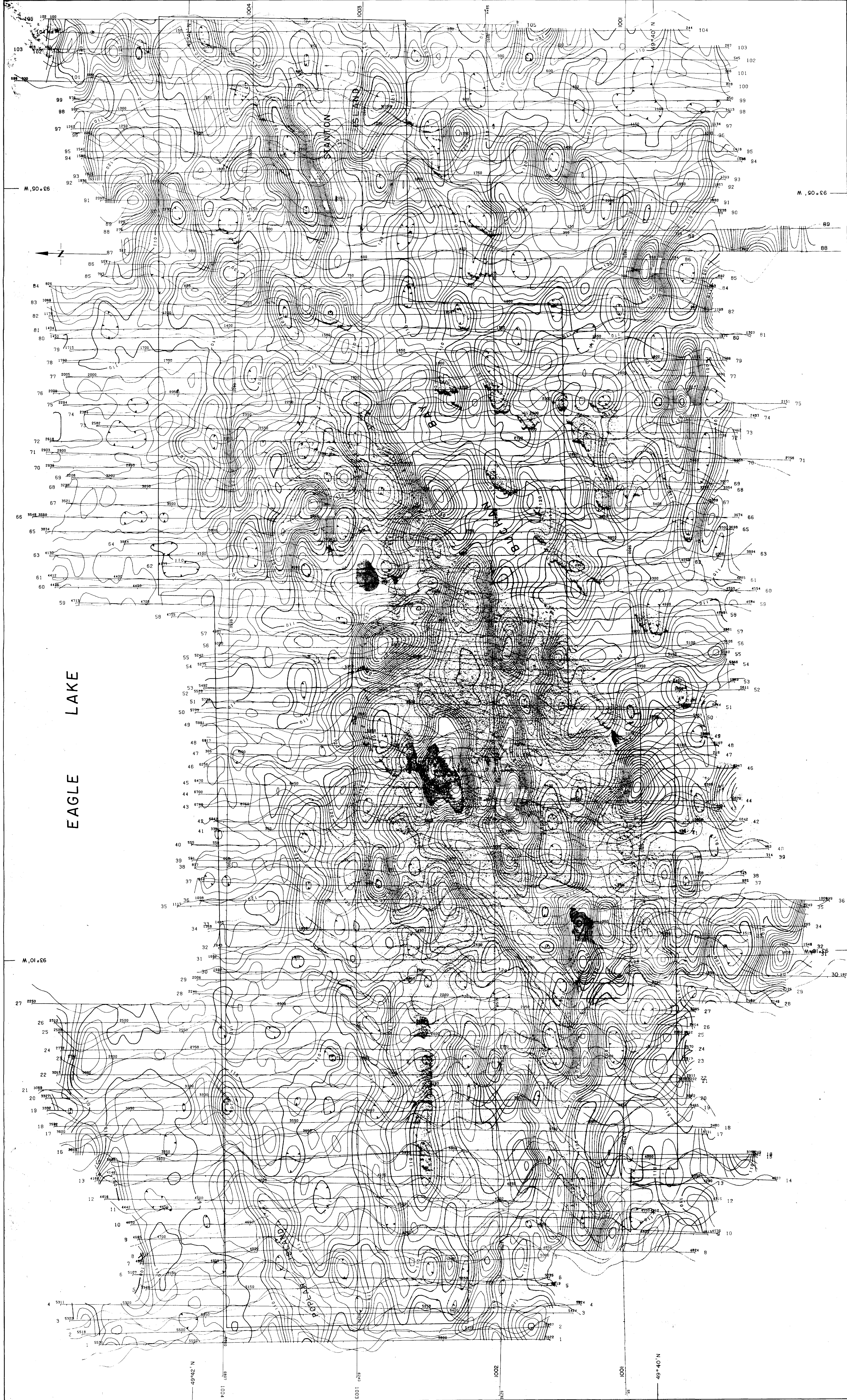
EAGLE LAKE

JONPOL EXPLORATIONS LIMITED
 AIRBORNE MAGNETIC SURVEY
 VERTICAL MAGNETIC GRADIENT
 Calculated From Total Field
 EAGLE LAKE AREA
 ONTARIO

N.T.S. NO. 52 F/11
 SCALE 1:10,000
 FEBRUARY, 1985
 TERRAQUEST LIMITED
 TORONTO, CANADA

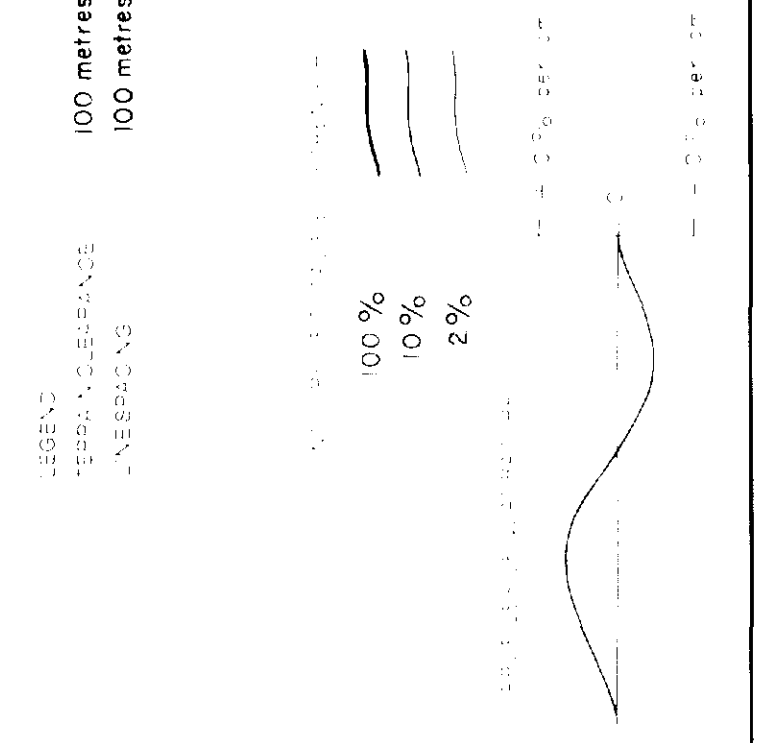
100 metres
 100 metres
 1:10,000
 1:10,000





JONPOL EXPLORATIONS LIMITED
 AIRBORNE VLF-EM SURVEY
 CONTOURS OF TOTAL FIELD STRENGTH
 PROFILES OF QUALITATIVE
 NAA CUTLER, ME. - 24.0 MHz
 EAGLE LAKE AREA
 ONTARIO

N.S. NO. 52 F/11
 SHEET NO. B 429 - 3
 SCALE 1:10,000
 DATE February, 1985
 TERRAQUEST LIMITED
 TORONTO, CANADA



2330

