AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

CALVERT TOWNSHIP

DUNDONALD TOWNSHIP

WALKER TOWNSHIP

STOCK TOWNSHIP

12 11 10 9 8 7 6 5 4 3 2 1

VI V IV III II I

LEGEND

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT — SYMBOL

SCALE 1:20 000

RECEIVED
PORCUPINE MINING DIVISION
MAR 7 1988

TOWNSHIP

CLERGUE

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ontario Ministry of Natural Resources

Ministry of Northern Development and Mines

Date SEPTEMBER, 1986

Number G-3487

42A11NE8828 2.10908 CLERGUE

200

MAP SYMBOLOGY

Aerial Cableway
Boundary
International
Interprovincial
District, Township Indian Reserve
Agreement
Lot, Concession
Approximate
Park Boundary
Bridge
Road, Railroad
Building
Chimney
Cliff, Pit, Pile
Contours
Interpolated
Approximate
Depression
Control Points
Horizontal
Vertical
Culvert
Falls
Double line river
Fence, Hedge, Wall
Feature Outline (Construction features, etc.)
Flooded Land
Lock
Marsh or Swamp
Mast
Mine Head Frame
Outcrop

Pipeline (above ground)
Railroad
Single Track
Double Track
Abandoned
Turntable
Road
Highway, County, Township
Access (road of doughtful or no clearance or significant driveway)
Trail, Bush Road (portage, slip)
Rapids
Double line river with multiple rapids
Double line river with multiple rapids
Reservoir
River, Stream, Canal
Approximate (seasonal) direction of flow
Rock (significant)
Shoal
Spot Elevation (false elevations)
Tower
Transmission Line
Poles
Pylons
Tunnel
Utility Poles
Wharf, Dock, Pier
Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

EVELYN TWP.

HOYLE TWP.

GERMAN TWP.

CODY TWP.

HWY 610
HWY 101
O.N.R.
Beaver Dam
Dugwal Creek
Matheson Creek
Frederick House River
Northern Ontario Natural Gas
Keyson
Hoyle
Porcupine

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.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
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	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970 CHAP 380, SEC. 63, SUBSEC 1.

500 Metres 0 1000 Metres
10 0 10 20 30 40 50 60 70 Chains
500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000
GRID ZONE : 17

NOTES

FLOODING RIGHTS ON THE FREDERICK HOUSE RIVER TO 903' CONTOUR RESERVED TO H.E.P.C.

TOWNSHIP

MATHESON

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

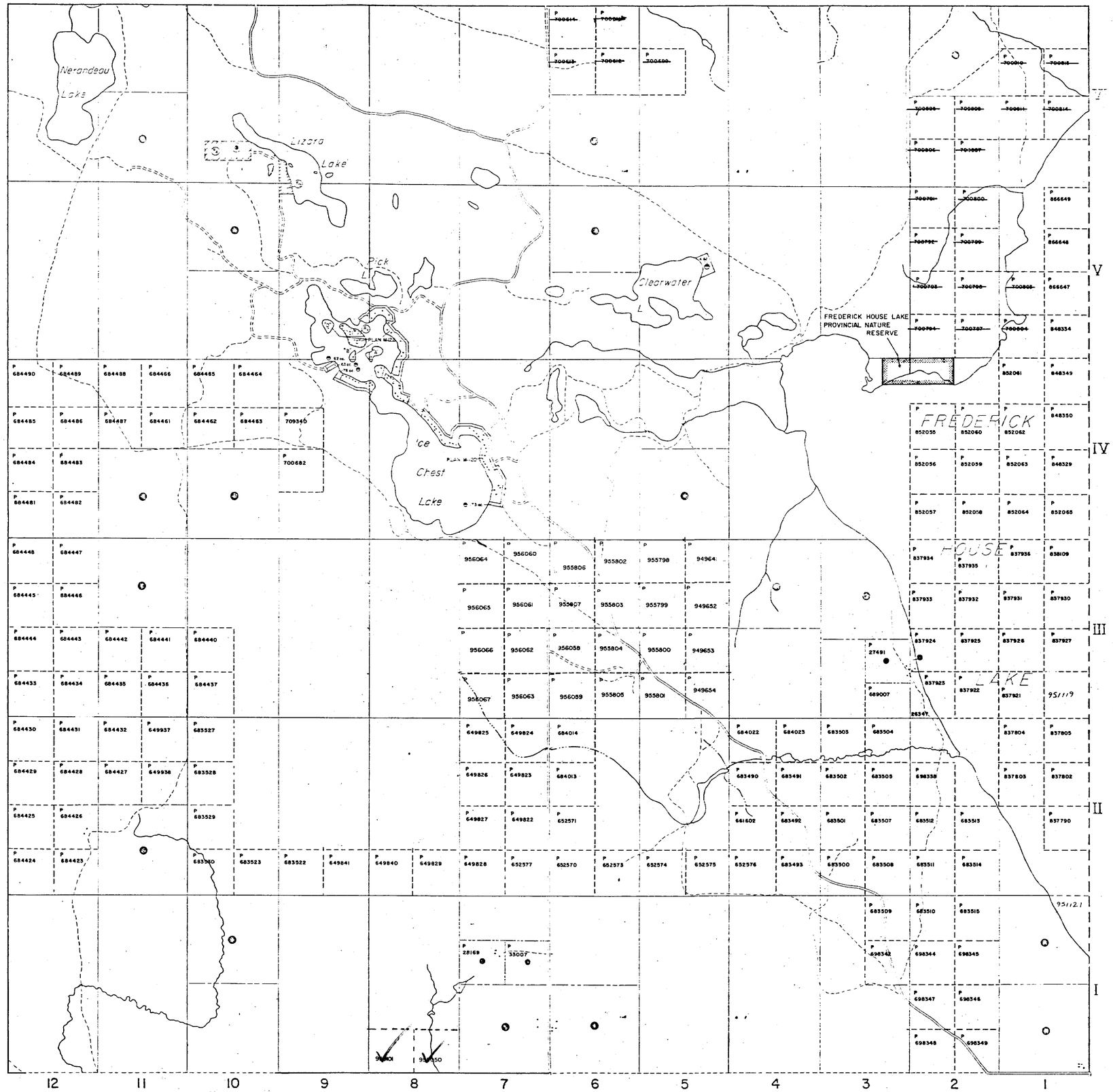
ORIGINAL COMPILATION JULY 1984
REVISED
Number G-3982

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R)	W28/75	04/06/75	S.R.O.	134839
(R)	W19/78	10/04/78	S.R.O.	188543
(R)	NRN 41/85		S.R.O.	

LITTLE TOWNSHIP



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.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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	OC
RESERVATION	(R)
CANCELLED	
SAND & GRAVEL	(S)

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970 CHAP. 380, SEC. 63, SUBSEC. 1.

500 0 1000 Metres
10 0 10 20 30 40 50 60 70 Chains
5000 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000

RECEIVED
JUN 9 1987

TOWNSHIP
EVELYN

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources
Ministry of Northern Development and Mines

Date OCTOBER, 1966
Revised Nov. 27/86
Cont. Feb 3/87 88

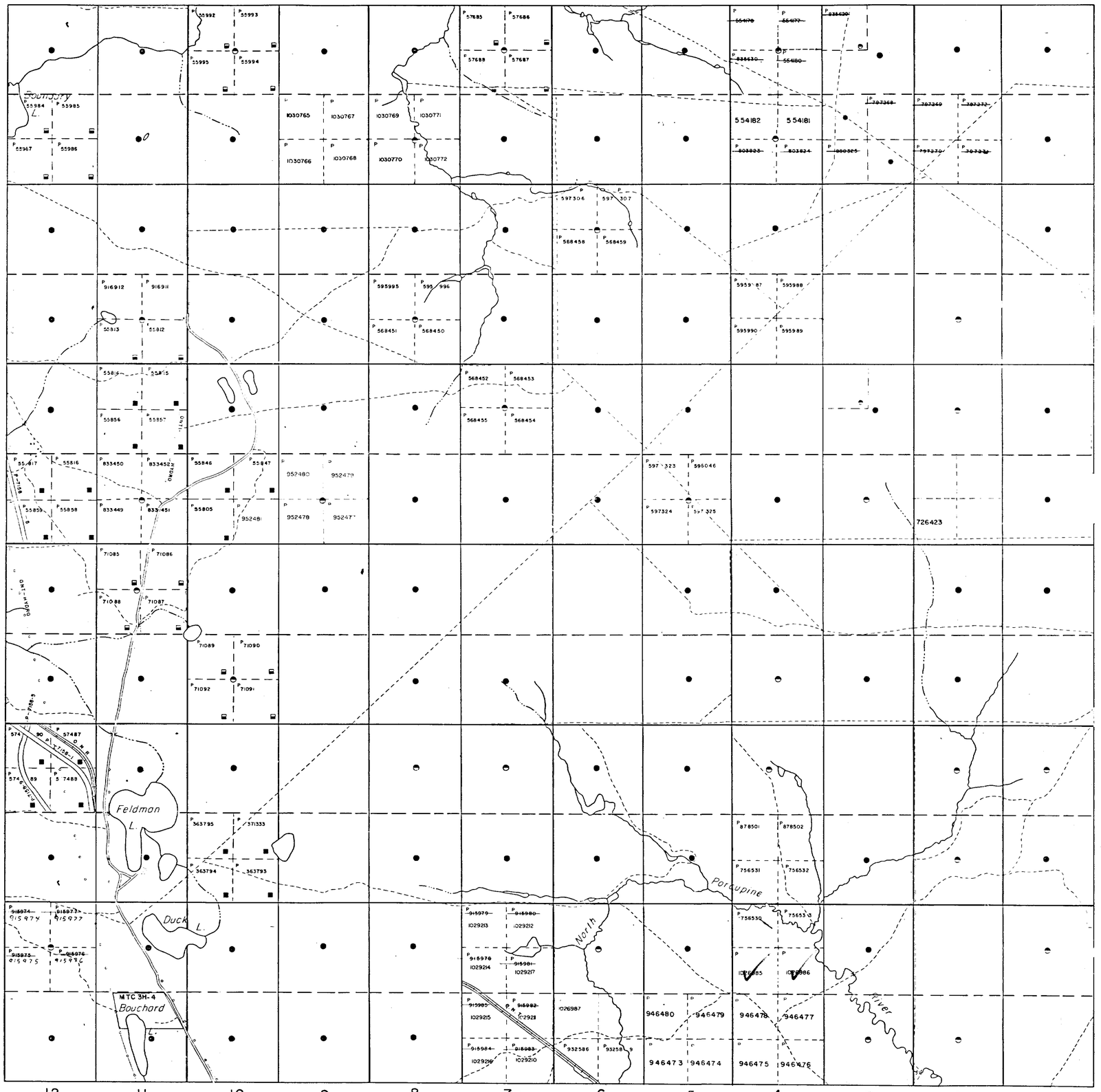
Number
G-3940

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

PROSSER TOWNSHIP



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
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- S.R.O. – A 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	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓡ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

500 0 1000 Metres
10 0 10 20 30 40 50 60 70 Chains
500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000

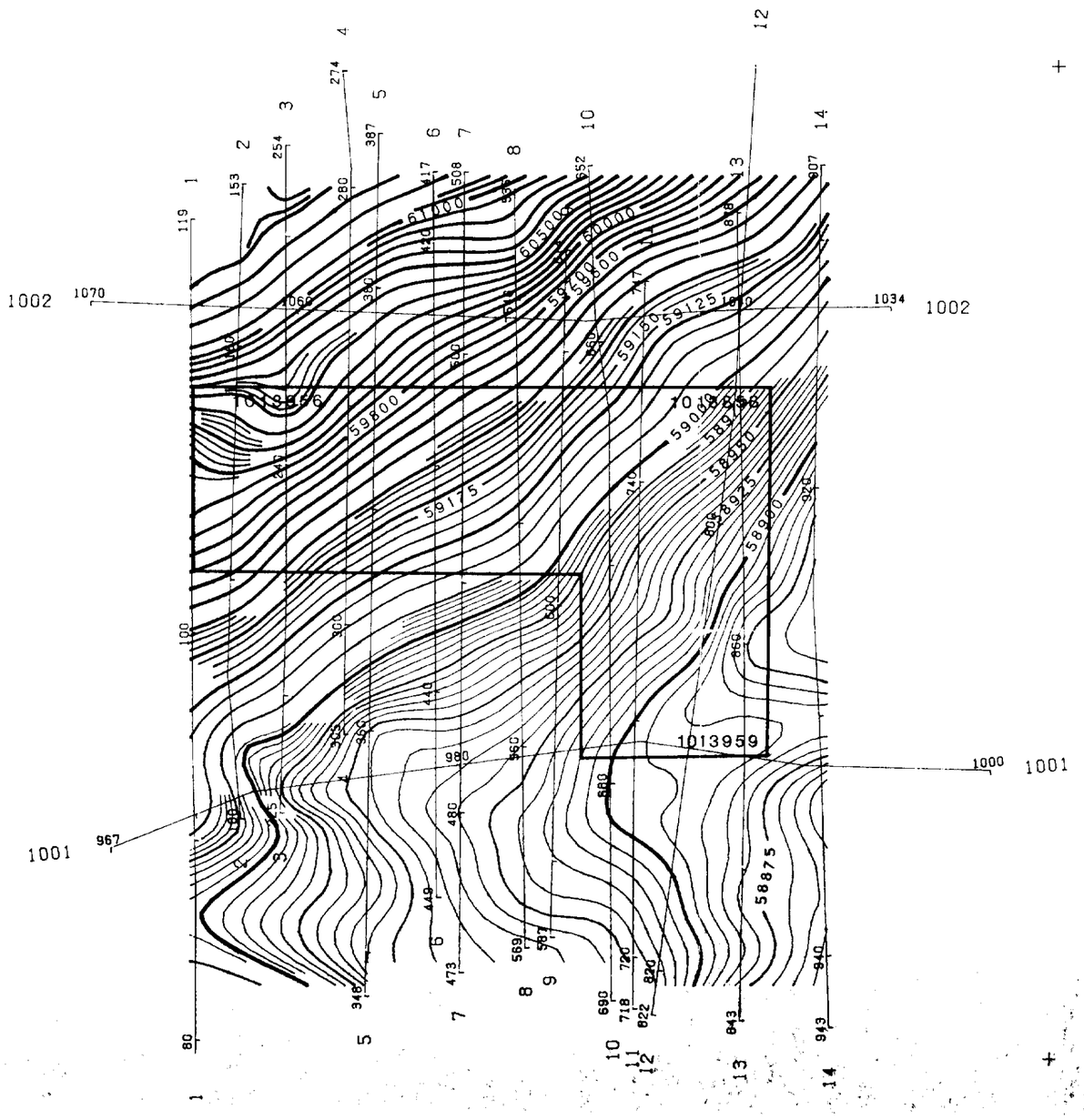
1 S1/2 LOT 9, CON 3, LOT 9, CON 2 &
S1/2, S1/2, LOT 6, CON 3 - Withdrawn from staking - SR & MR.

TOWNSHIP
WARK

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario
Ministry of Natural Resources
Ministry of Northern Development and Mines

Date SEPTEMBER 1986
Number G-3989



2.10908

LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

TOTAL MAGNETIC FIELD

500 gammas	———
100 gammas	———
25 gammas	———
5 gammas	———

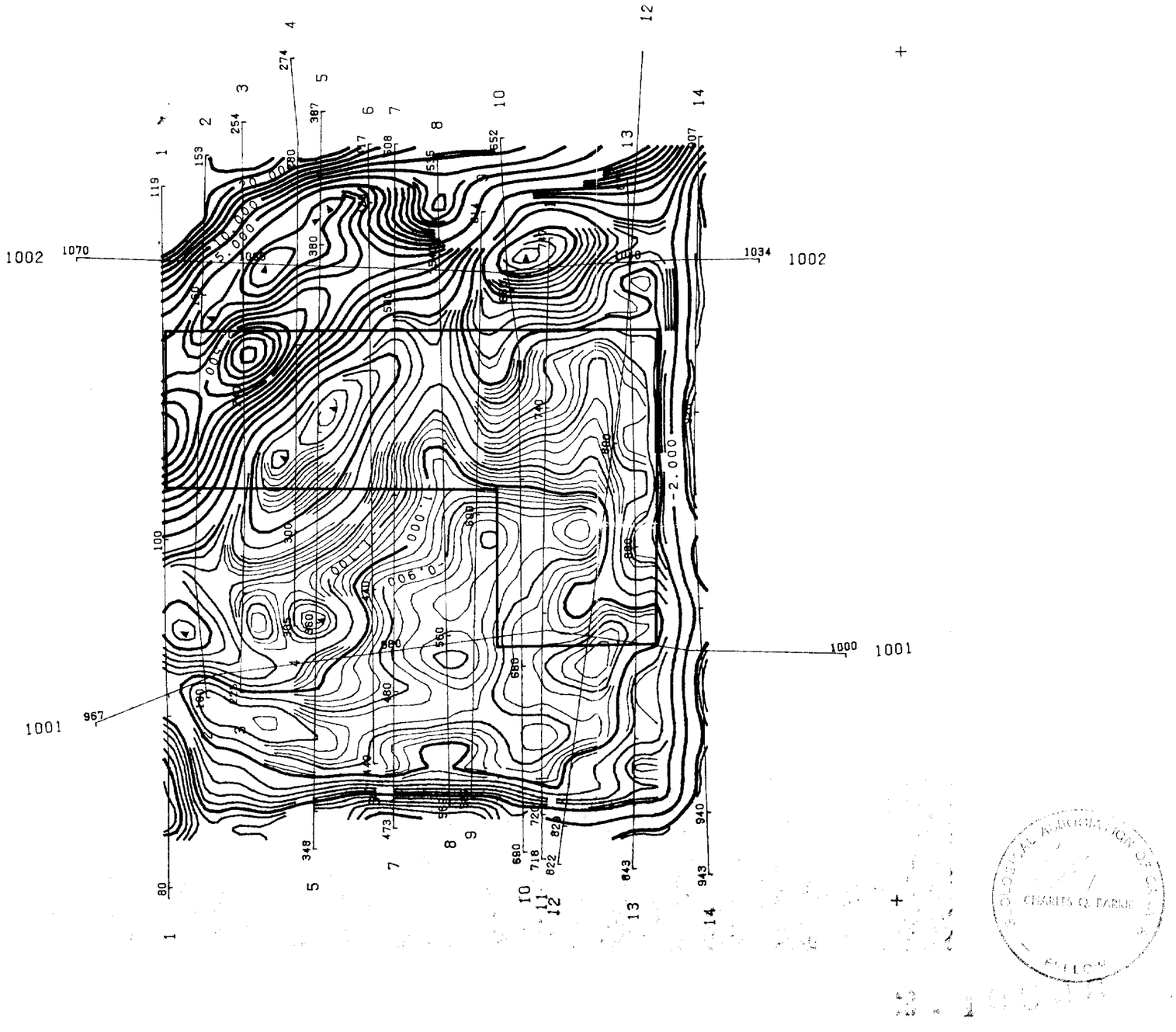
MR. A. J. SALO

AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

CLERGUE TOWNSHIP, ONTARIO

N.T.S. NO.	42A/10	DRAWING NO.	A-739.1-1
SCALE:	1:10,000	DATE:	February 1988

TERRAQUEST LTD.
TORONTO, CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

VERTICAL MAGNETIC GRADIENT

2.500 gammas/meter	
.500 gammas/meter	
.100 gammas/meter	
.025 gammas/meter	

MR. A. J. SALO

AIRBORNE MAGNETIC SURVEY

VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

CLERGUE TOWNSHIP, ONTARIO

N.T.S. NO	42A/10	DRAWING NO	A-739.1-2
SCALE	1:10,000	DATE	February 1988

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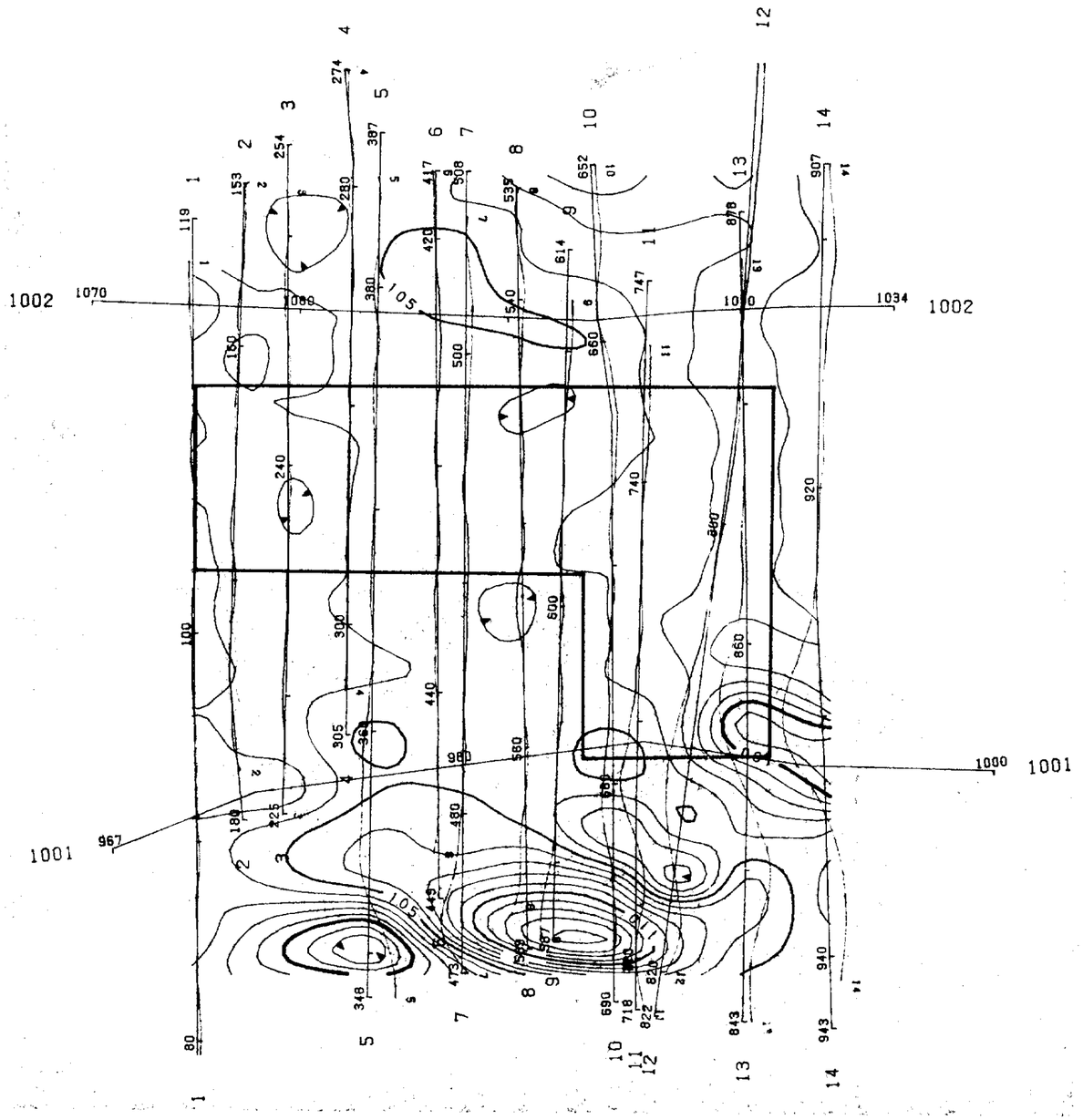
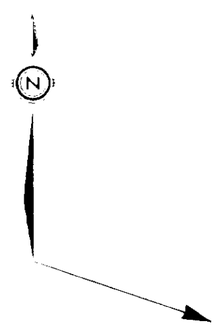
TORONTO CANADA





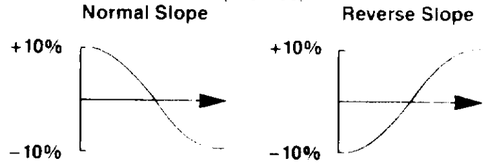
VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 108

LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

TOTAL FIELD STRENGTH (Contours)
5%
1%

QUADRATURE (Profiles)
Normal Slope
Reverse Slope



MR. A. J. SALO

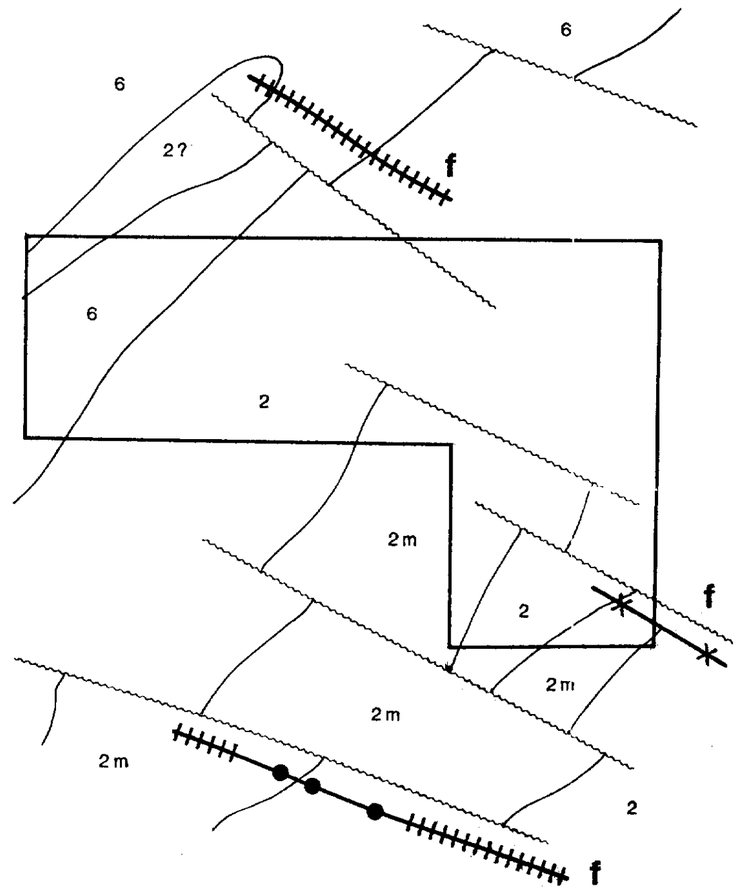
AIRBORNE VLF-EM SURVEY

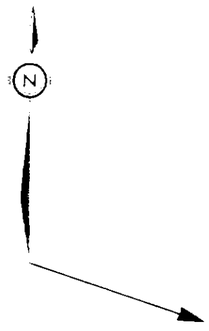
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

CLERGUE TOWNSHIP, ONTARIO

NTS NO	42A/10	DRAWING N	A-739.1-3
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO CANADA





VLF Transmitter:
NAA Cutler, 24.0 kHz
Azimuth 108

LITHOLOGY

6	Peridotite, Pyroxenite
2m	Magnetic Unit Within 2
2	Andesitic & Rhyolitic Metavolcanics

LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

INTERPRETATION

- Contact
- Fault
- Property Boundary

VLF-EM Conductor Axes

- normal quadrature
- reverse quadrature
- total field only

See text for classification of VLF-EM conductor axes

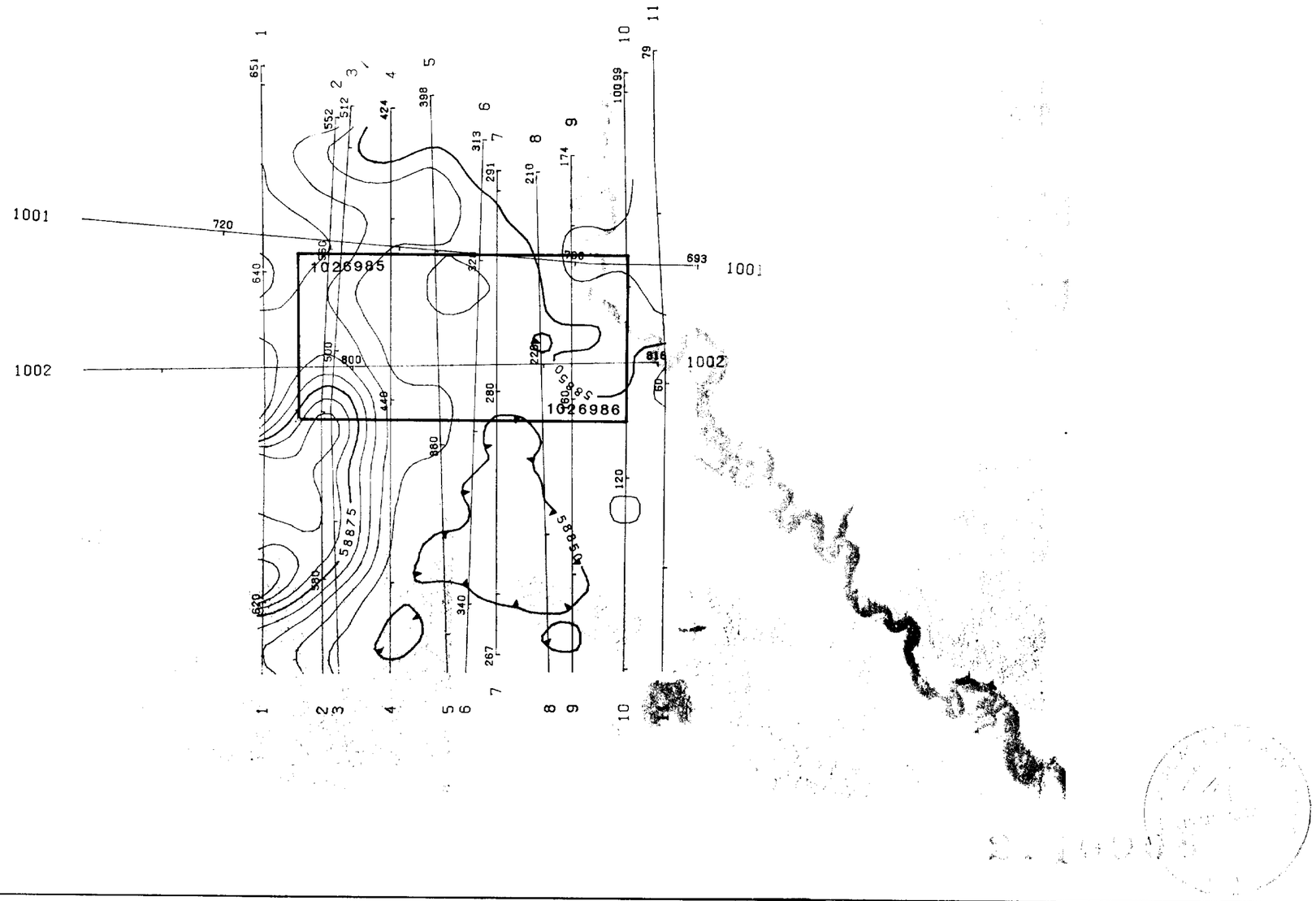
MR. A. J. SALO

INTERPRETATION

CLERGUE TOWNSHIP, ONTARIO

N.T.S. NO.	42A/10	DRAWING NO.	A-739.1-4
SCALE:	1:10,000	DATE:	February 1988

TERRAQUEST LTD.
TORONTO, CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

TOTAL MAGNETIC FIELD

500 gammas	———
100 gammas	———
25 gammas	———
5 gammas	———

MR. A. J. SALO

AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

WARK TOWNSHIP, ONTARIO

N.T.S. NO	42A/11	DRAWING NO	A-739.2-1
SCALE	1:10,000	DATE	February 1988

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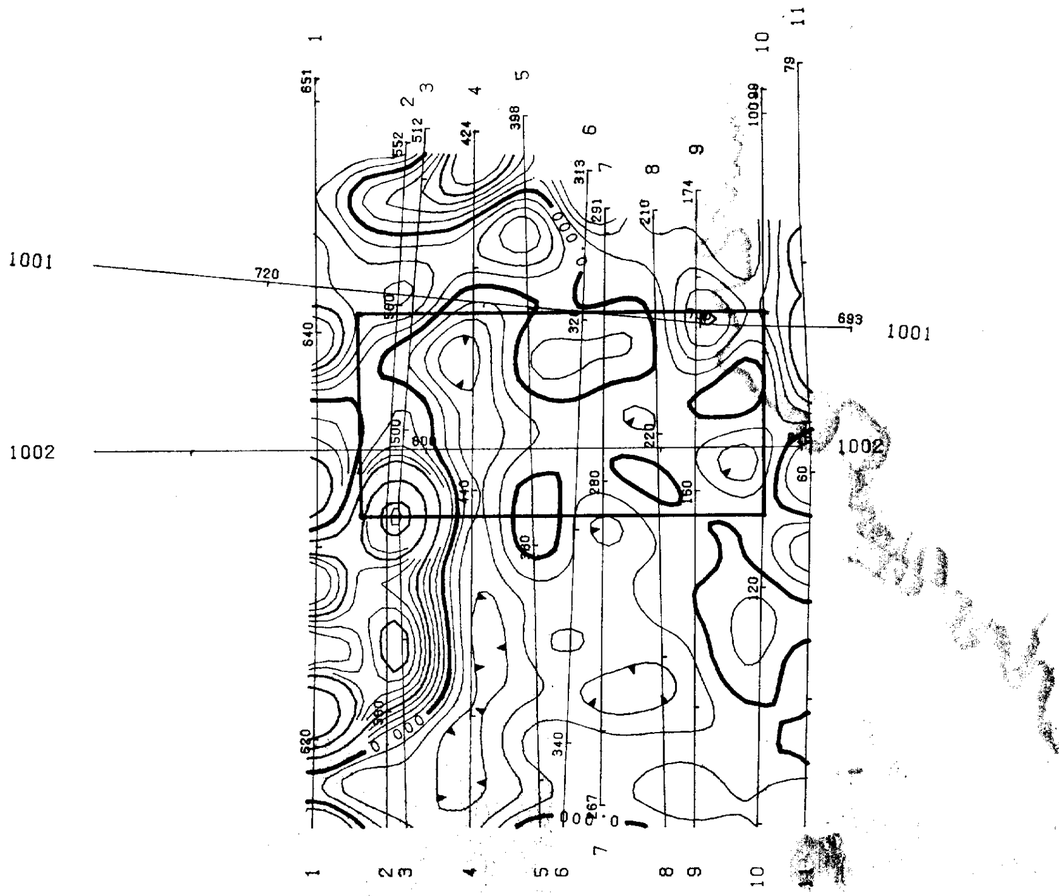
TORONTO CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

VERTICAL MAGNETIC GRADIENT

2.500 gammas/meter	
.500 gammas/meter	
.100 gammas/meter	
.025 gammas/meter	

MR. A. J. SALO

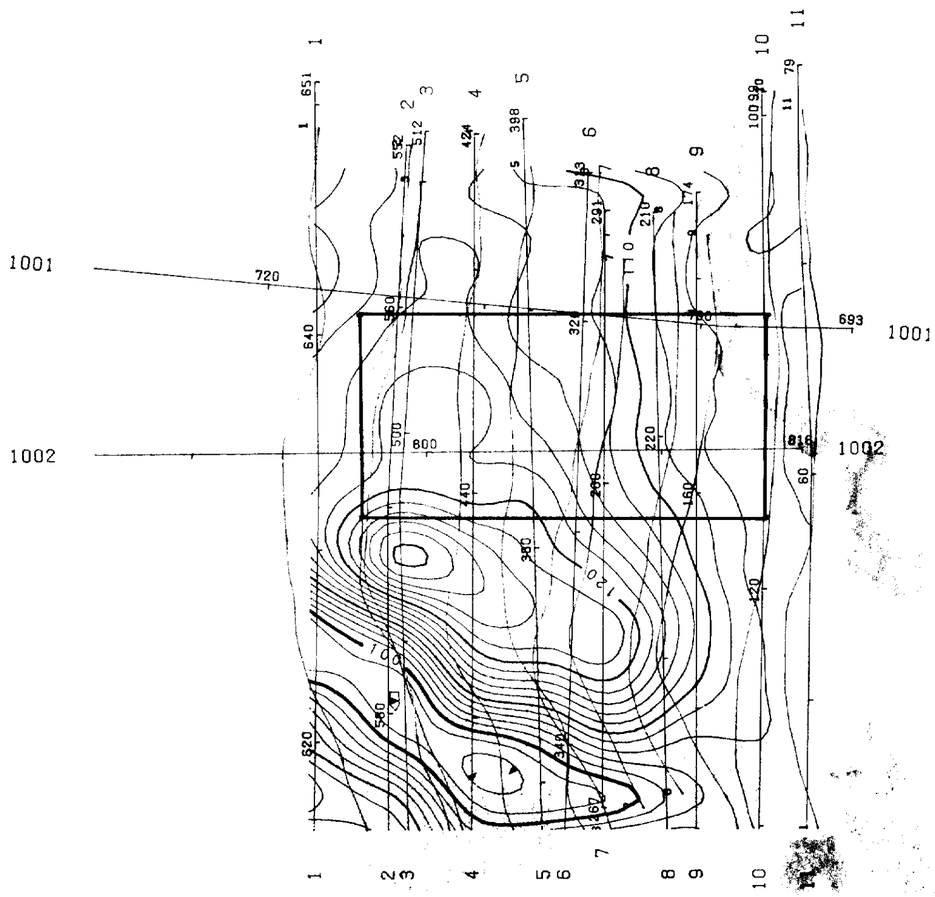
AIRBORNE MAGNETIC SURVEY

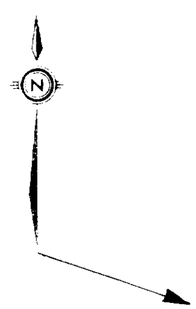
VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

WARK TOWNSHIP, ONTARIO

NTS NO.	42A/11	DRAWING NO.	A-739.2-2
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO CANADA





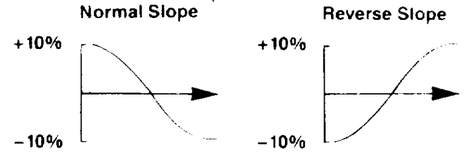
VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 108

LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

TOTAL FIELD STRENGTH (Contours)
50%
10%
2%

QUADRATURE (Profiles)
Normal Slope
Reverse Slope



MR. A. J. SALO

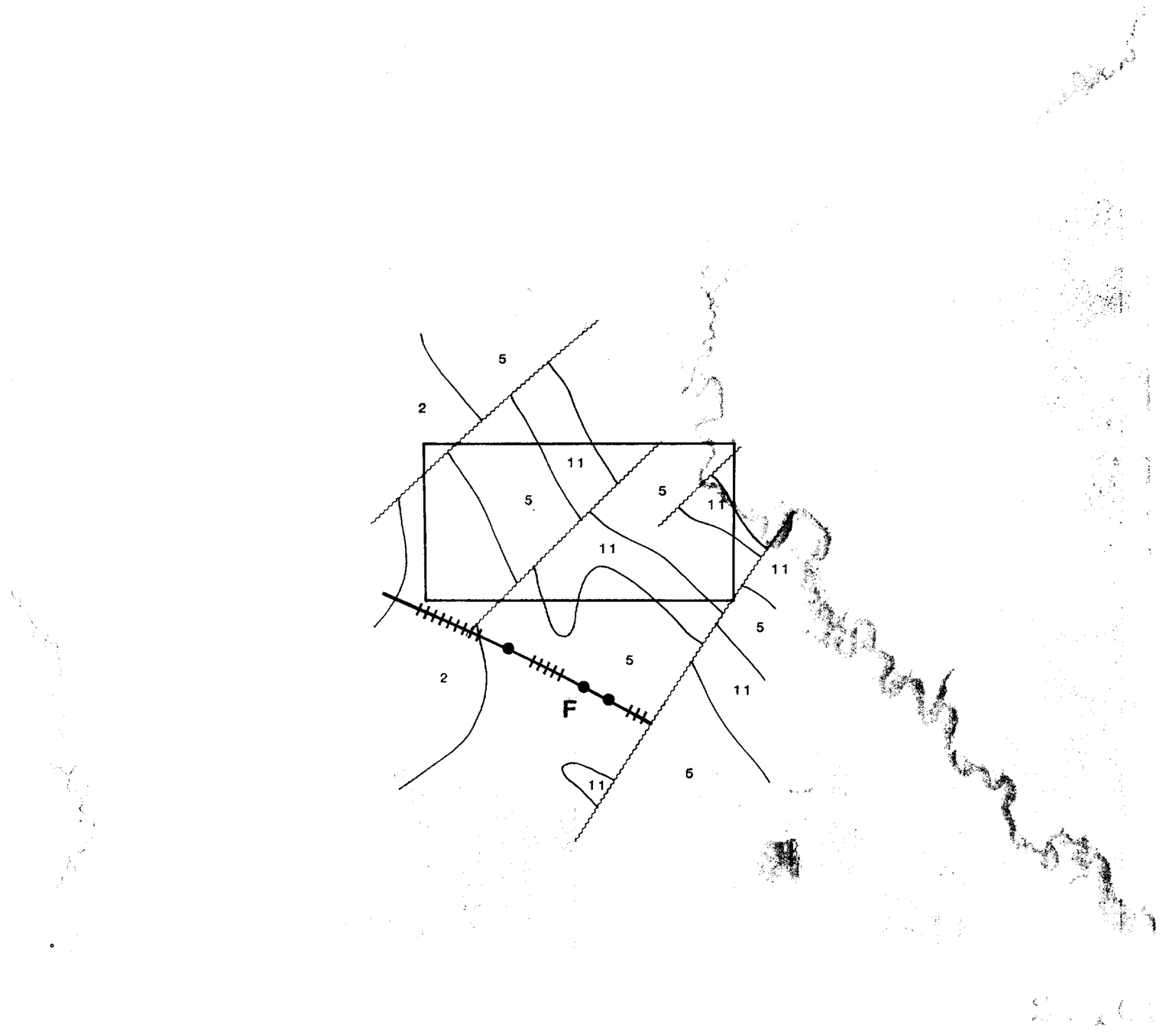
AIRBORNE VLF-EM SURVEY

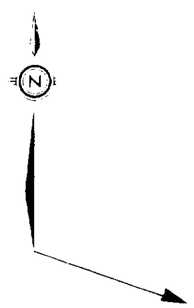
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

WARK TOWNSHIP, ONTARIO

N.T.S. NO	42A/11	DRAWING NO	A-739.2-3
SCALE	1:10.000	DATE	February 1988

TERRAQUEST LTD.
TORONTO, CANADA





VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 108

LITHOLOGY

11	Diabase Dyke
5	Greywacke
2	Rhyolite

LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

INTERPRETATION

Contact
Fault
Property Boundary

VLF-EM Conductor Axes

normal quadrature
reverse quadrature
total field only

See text for classification of VLF-EM conductor axes

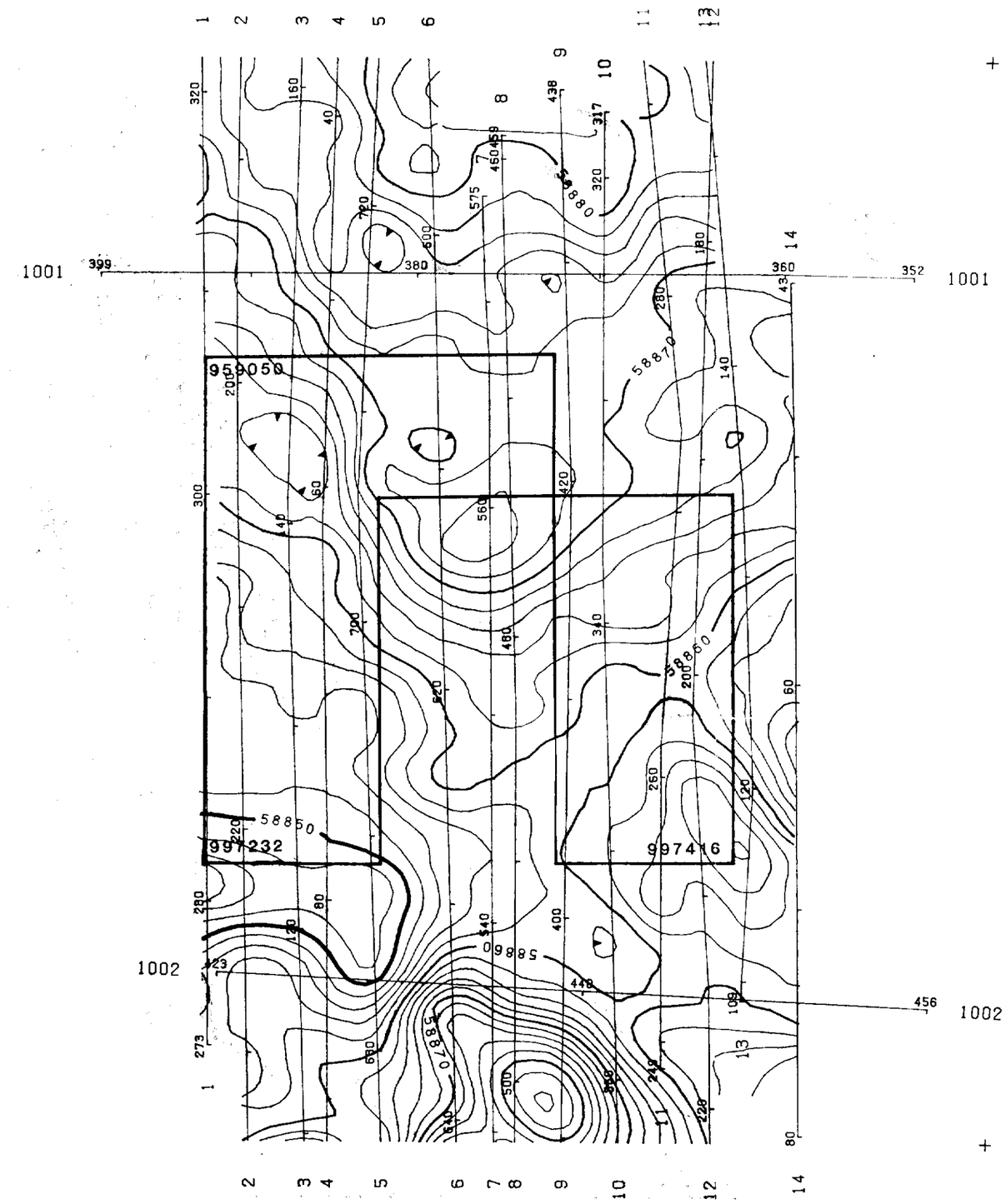
MR. A. J. SALO

INTERPRETATION

WARK TOWNSHIP, ONTARIO

N.T.S. NO.	42A/11	DRAWING NO.	A-739.2-4
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO, CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

TOTAL MAGNETIC FIELD

50 gammas	———
10 gammas	———
2 gammas	———

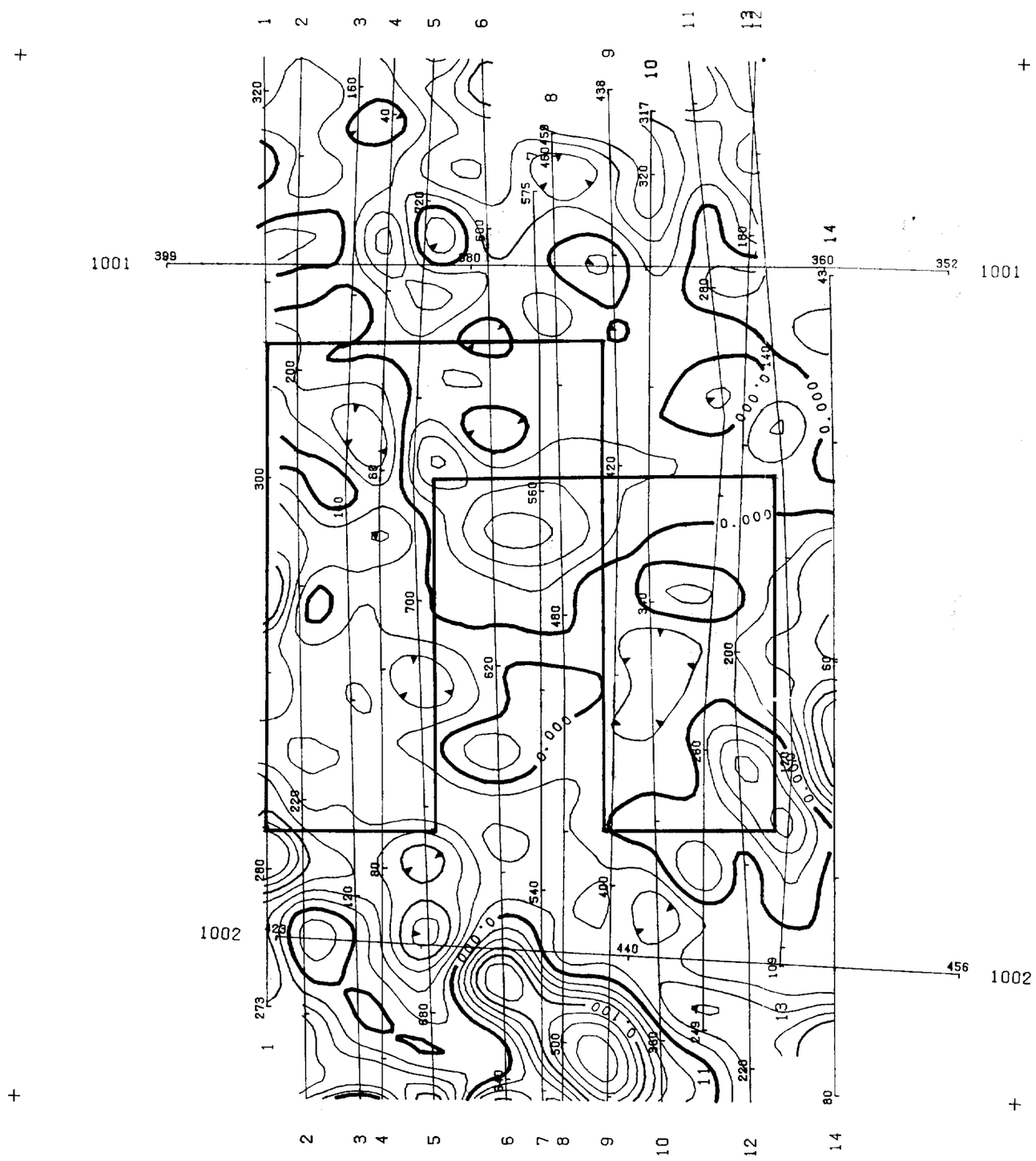
MR. A. J. SALO

AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

MATHESON, EVELYN TOWNSHIPS
ONTARIO

N.T.S. NO.	42A/11	DRAWING NO.	A-739.3-1
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

VERTICAL MAGNETIC GRADIENT

2.500 gammas/meter	———
.500 gammas/meter	———
.100 gammas/meter	———
.025 gammas/meter	———

MR. A. J. SALO

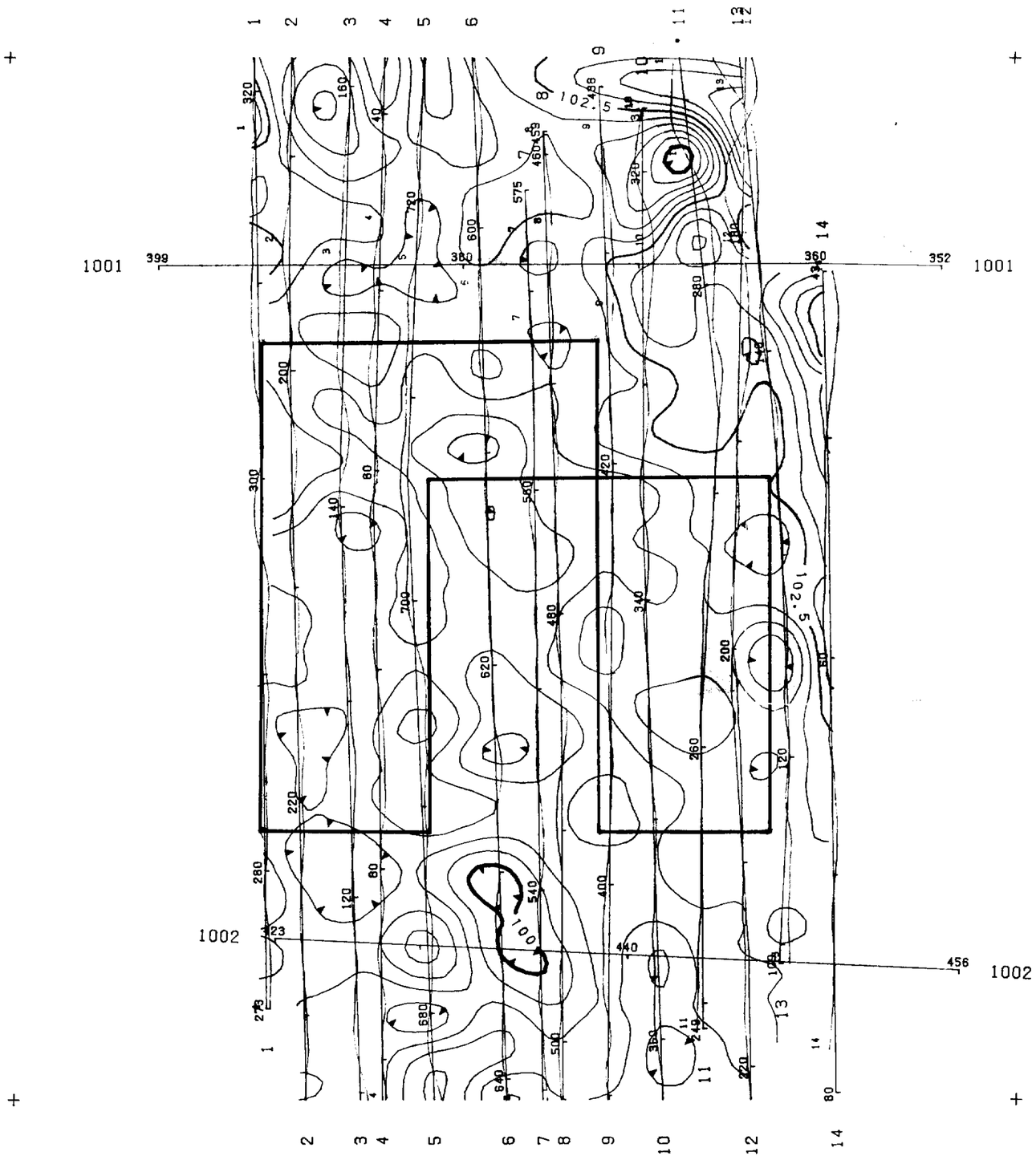
AIRBORNE MAGNETIC SURVEY

VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

MATHESON, EVELYN TOWNSHIPS
ONTARIO

N.T.S. NO.	42A/11	DRAWING NO.	A-739.3-2
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO, CANADA

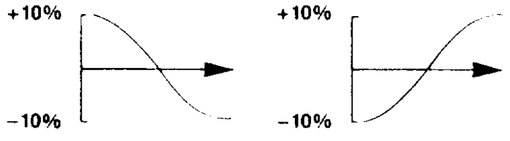


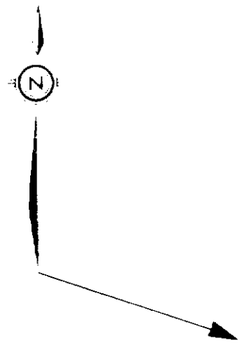
LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

TOTAL FIELD STRENGTH (Contours)
10.0%
2.5%
0.5%

QUADRATURE (Profiles)
Normal Slope
Reverse Slope





VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 108

MR. A. J. SALO

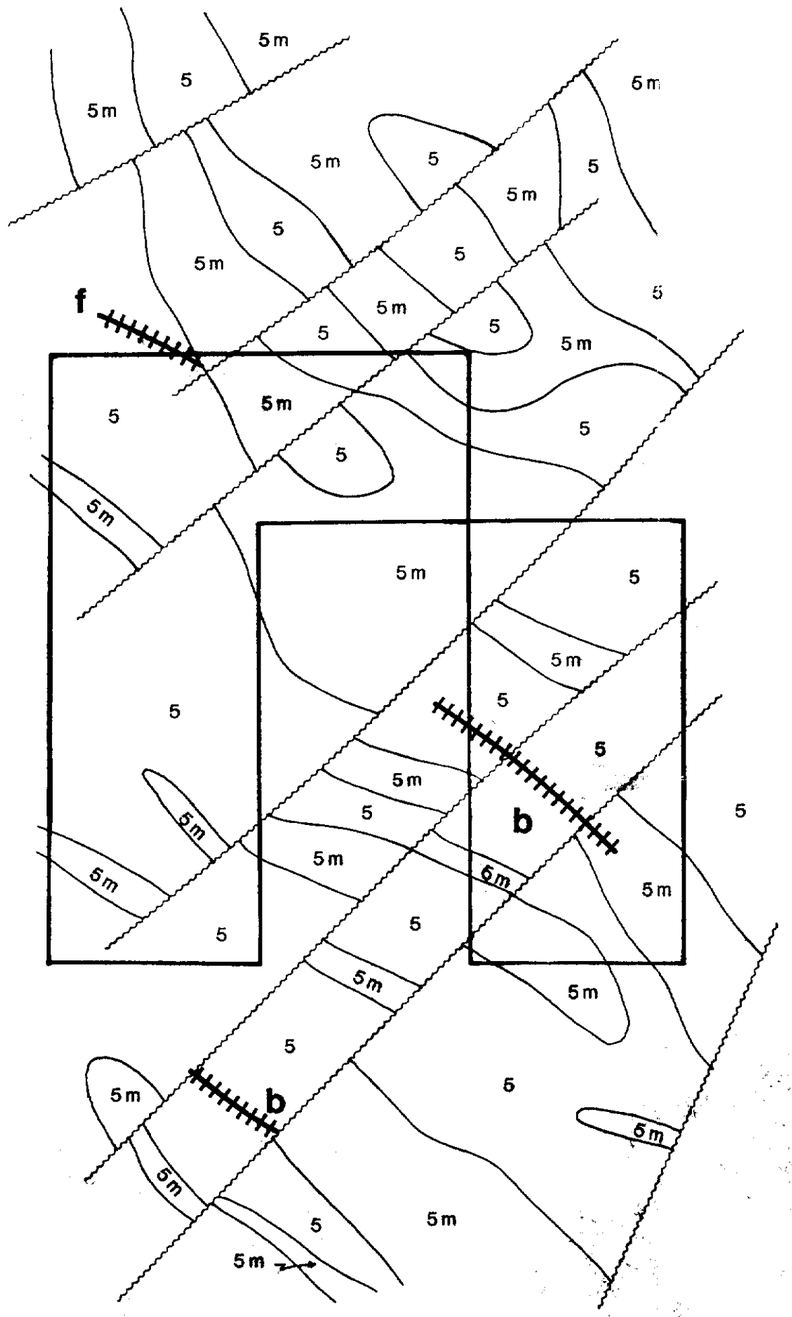
AIRBORNE VLF-EM SURVEY

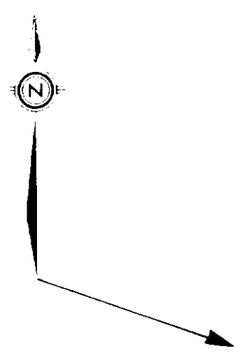
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

MATHESON, EVELYN TOWNSHIPS
ONTARIO

N.T.S. NO	42A/11	DRAWING NO	A-739.3-3
SCALE	1:10,000	DATE	February 1988

TERRAQUEST LTD.
TORONTO CANADA





VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 108

LITHOLOGY

5m	Magnetic Unit Within 5
5	Greywacke

LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

INTERPRETATION

- Contact
- Fault
- Property Boundary

VLF-EM Conductor Axes

- normal quadrature
- reverse quadrature
- total field only

See text for classification of VLF-EM conductor axes

MR. A. J. SALO

INTERPRETATION

MATHESON, EVELYN TOWNSHIPS
ONTARIO

N.T.S. NO.	42A/11	DRAWING NO.	A-739.3-4
SCALE:	1:10,000	DATE:	February 1988

TERRAQUEST LTD.
TORONTO, CANADA

% PER METER

0.03410
0.02230
0.01730
0.01370
0.01130
0.00960
0.00800
0.00680
0.00580
0.00510
0.00450
0.00390
0.00330
0.00280
0.00220
0.00180
0.00140
0.00090
0.00050
0.00010
-0.00010
-0.00060
-0.00100
-0.00150
-0.00200
-0.00270
-0.00330
-0.00410
-0.00480
-0.00590
-0.00700
-0.00860
-0.01000
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-0.01600
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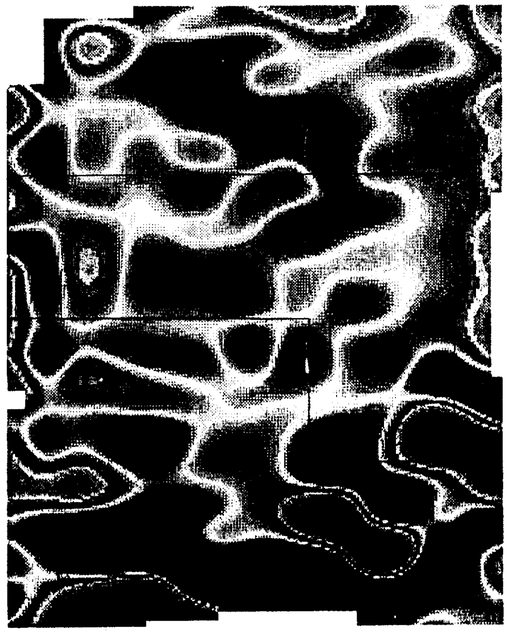
-0.04590



MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
(IN-PHASE)

CLERGUE TOWNSHIP, ONTARIO

N.T.S. NO. 42A/10	DRAWING NO. A-739.1-5
SCALE: 1:10,000	DATE: February 1988

TERRAQUEST LTD.
TORONTO, CANADA

% PER METER

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0.09110
0.07300
0.05770
0.04790
0.04080
0.03440
0.02960
0.02590
0.02310
0.02100
0.01850
0.01600
0.01370
0.01100
0.00830
0.00610
0.00370
0.00060
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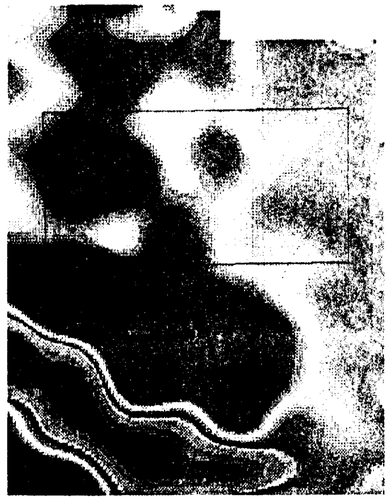

MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
(IN-PHASE)

WARK TOWNSHIP, ONTARIO

N.T.S. NO. 42A/11	DRAWING NO. A-739.2-5
SCALE: 1:10,000	DATE: February 1988

TERRAQUEST LTD.
TORONTO, CANADA

% PER METER

0.01710
0.01510
0.01110
0.00960
0.00840
0.00740
0.00640
0.00540
0.00470
0.00410
0.00360
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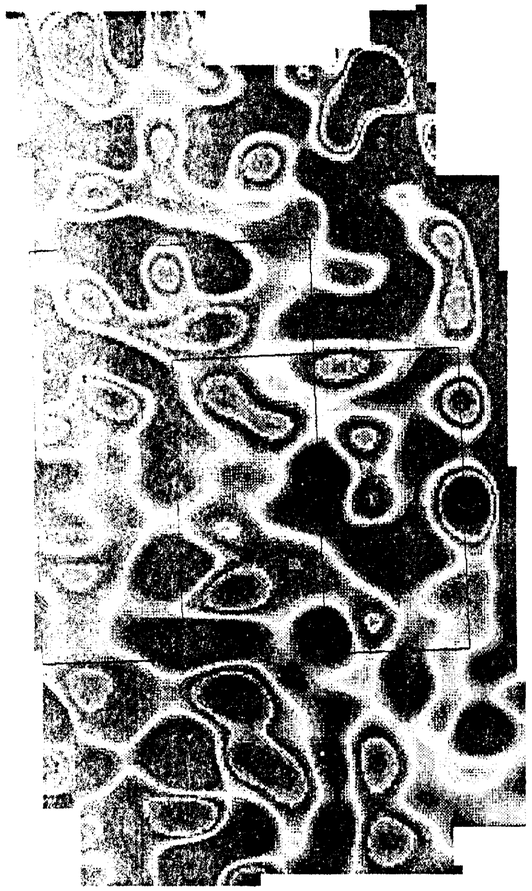

MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
(IN-PHASE)

MATHESON, EVELYN TOWNSHIP, ONTARIO

N.T.S. NO. 42A/11	DRAWING NO. A-739.3-5
SCALE: 1:10,000	DATE: February 1988

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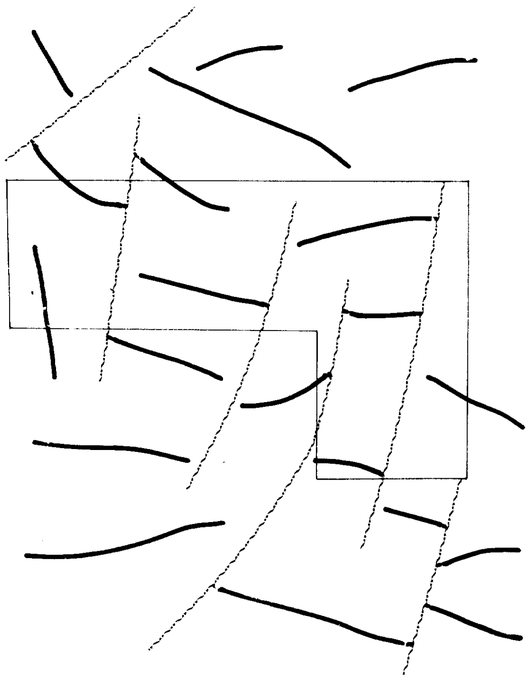
LEGEND

Terrain Clearance ..... 100 meters
Line Spacing ..... 100 meters

INTERPRETATION

ENHANCED CONDUCTOR AXIS

FAULTS INTERPRETED FROM DISPLACEMENTS AND TRUNCATION OF CONDUCTOR AXIS



MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
INTERPRETATION

CLERGUE TOWNSHIP, ONTARIO

N.T.S. NO. 42A/10	DRAWING NO. A-739.1-5
0,000	DATE: February 1988

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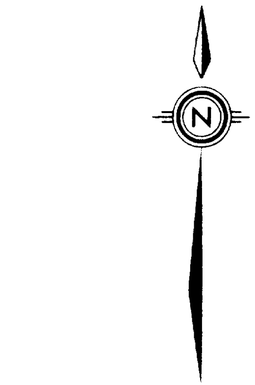

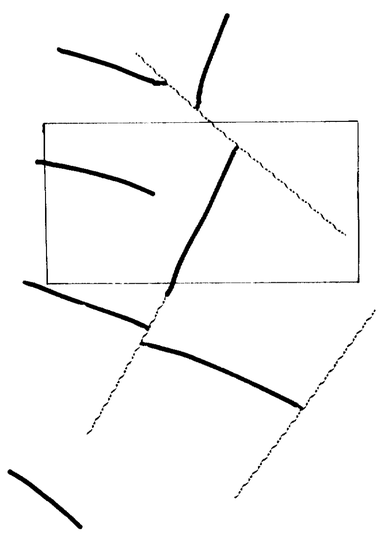

MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
INTERPRETATION

WARK TOWNSHIP, ONTARIO

N.T.S. NO. 42A/11	DRAWING NO. A-739.2-5
SCALE: 1:10,000	DATE: February 1988

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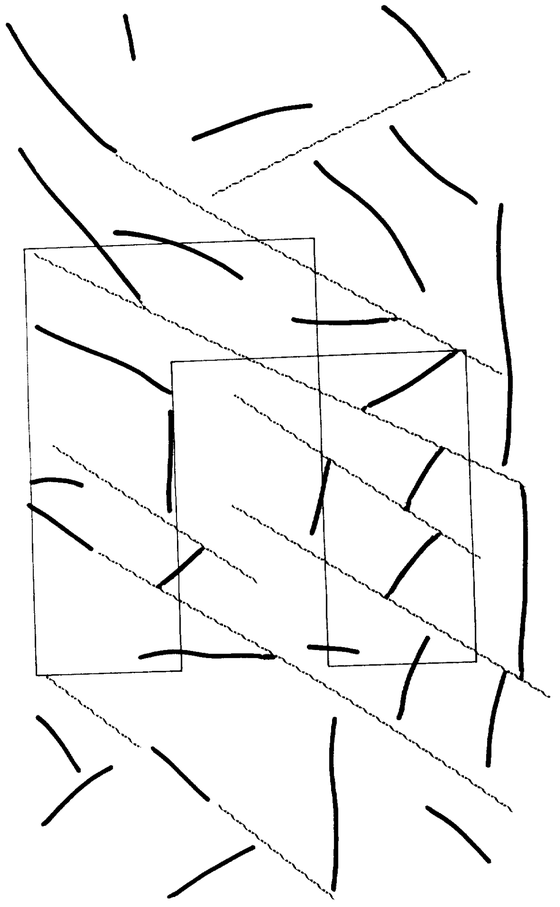

MR. ARVO SALO

AIRBORNE VLF-EM SURVEY
COMPUTED VERTICAL GRADIENT OF TOTAL FIELD
INTERPRETATION

MATHESON, EVELYN TOWNSHIP, ONTARIO

N.T.S. NO. 42A/11	DRAWING NO. A-739.3-5
SCALE: 1:10,000	DATE: February 1988

TERRAQUEST LTD.
TORONTO, CANADA

A-739

010

REPORT ON AN

AIRBORNE MAGNETIC AND VLF-EM SURVEY

CLERGUE TOWNSHIP
WARK TOWNSHIP
MATHESON AND EVELYN TOWNSHIPS

PORCUPINE MINING DIVISION, ONTARIO

2.10908

for

MR. A.J. SALO

by

TERRAQUEST LTD.
Toronto, Canada

February 24, 1988

A-739

REPORT ON AN

AIRBORNE MAGNETIC AND VLF-EM SURVEY

CLERGUE TOWNSHIP
WARK TOWNSHIP
MATHESON AND EVELYN TOWNSHIPS

PORCUPINE MINING DIVISION, ONTARIO

for

MR. A.J. SALO

by

TERRAQUEST LTD.
Toronto, Canada

February 24, 1988

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

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF MAPS IN JACKET

Note: There are three survey areas, therefore there are three of the above listed maps.

1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Mr. A.J. Salo of General Delivery, Prince George, B.C., V2L 4R8 by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was performed on February 2, 1988 and the data processing, interpretation and reporting from February 3 to February 24, 1988.

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 PROPERTIES

CLERGUE TOWNSHIP

The property is located in the southwest corner of Clergue township, in the Porcupine Mining Division of Ontario about 44 kilometres northeast of the town of Timmins. The property can be accessed by bush roads to the west leading from Highway 67.

The latitude and longitude are 48 degrees 38 minutes, and 80 degrees 48 minutes respectively, and the N.T.S. reference is 42A/10.

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

P.1013956-1013959 (4) .... Total of 4 claims

WARK TOWNSHIP PROPERTY

The property is located in the southeast quadrant of Wark township in the Porcupine Mining Division of Ontario about 18 kilometres northeast of the town of Timmins. The property lies on the southwest side of the North Porcupine River and can be accessed by bush roads from the southwest which connect to Highway 655.

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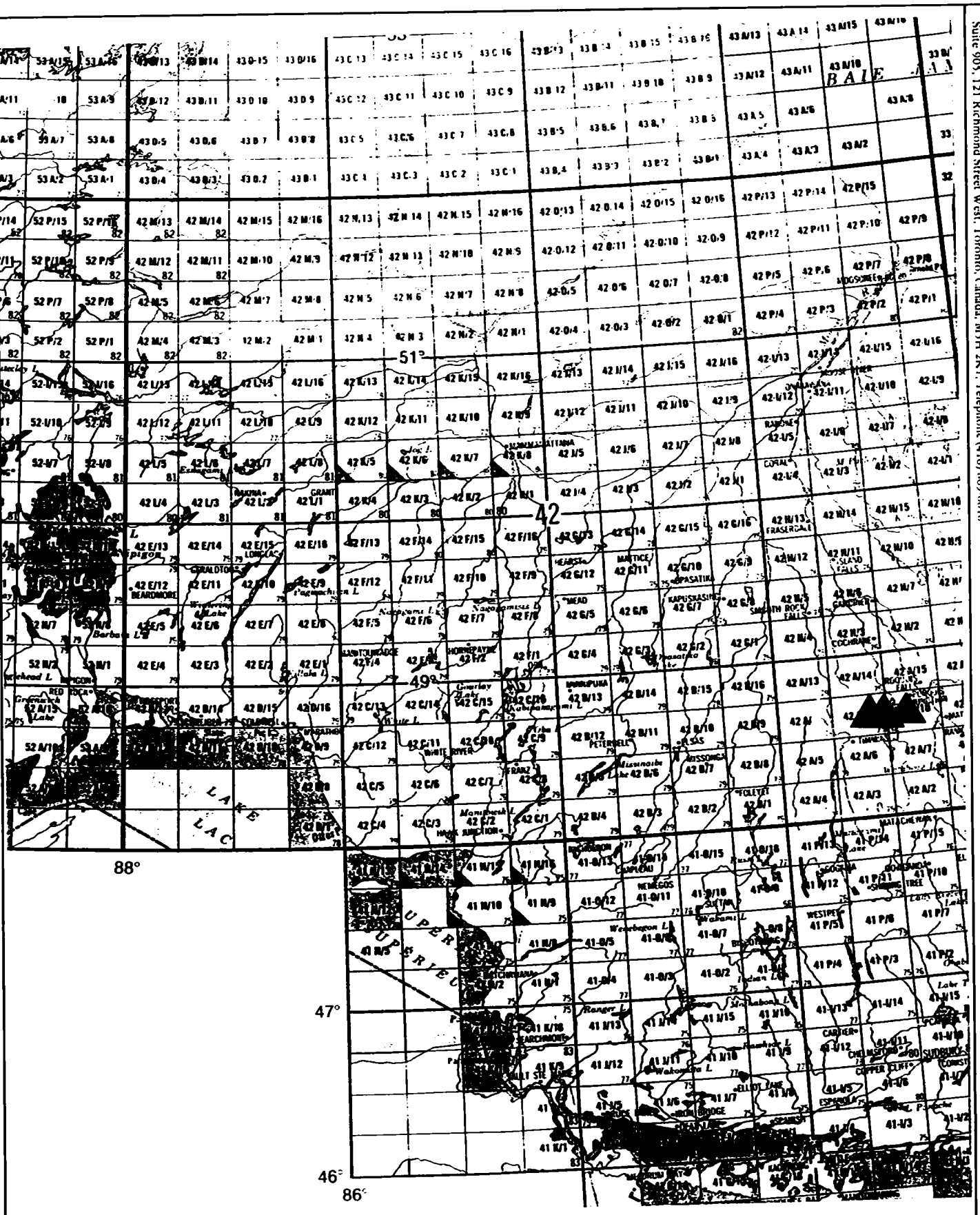

FIGURE 1. General Location

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

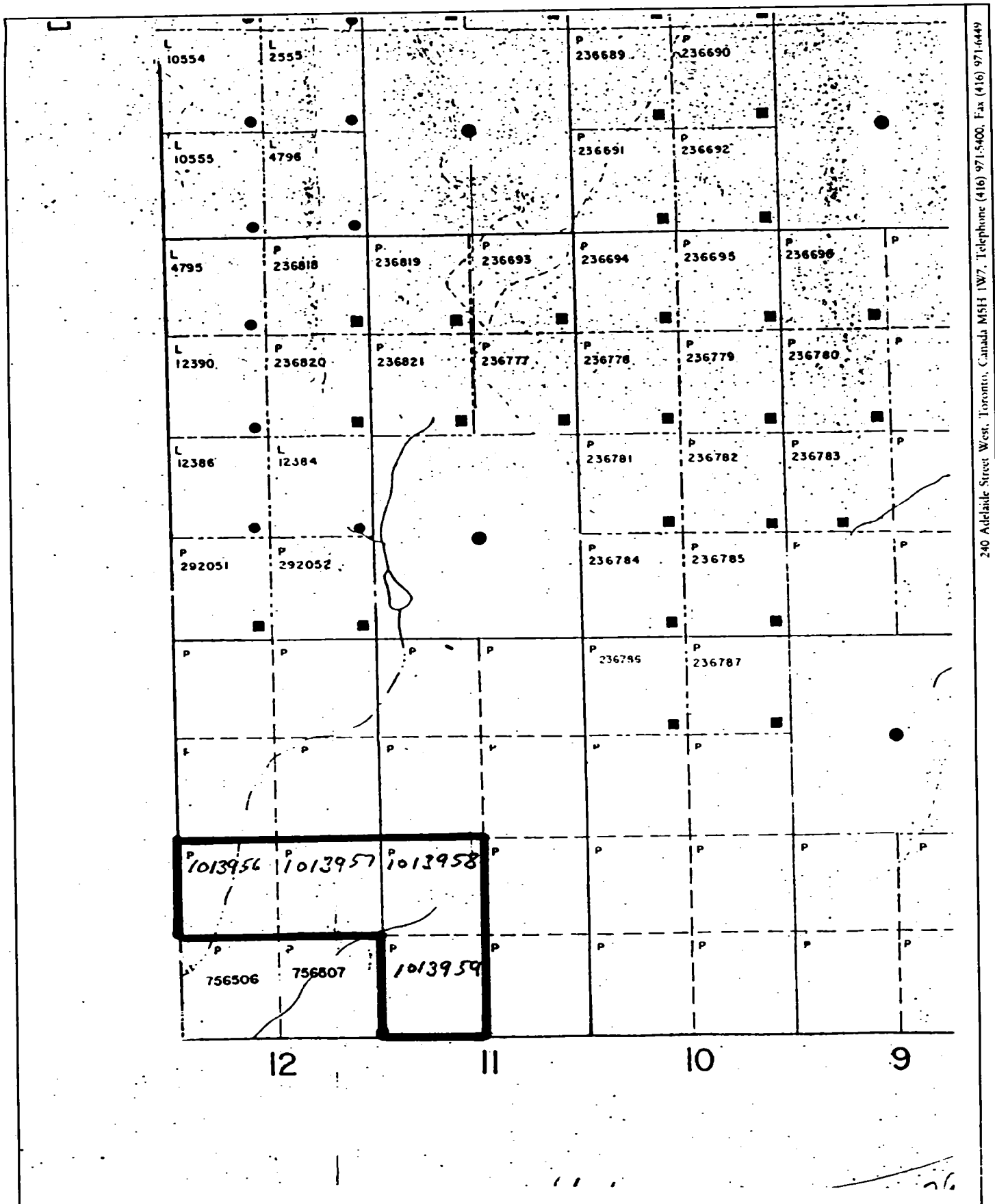

FIGURE **2A** Claim Location Map
(exact locations not certified)

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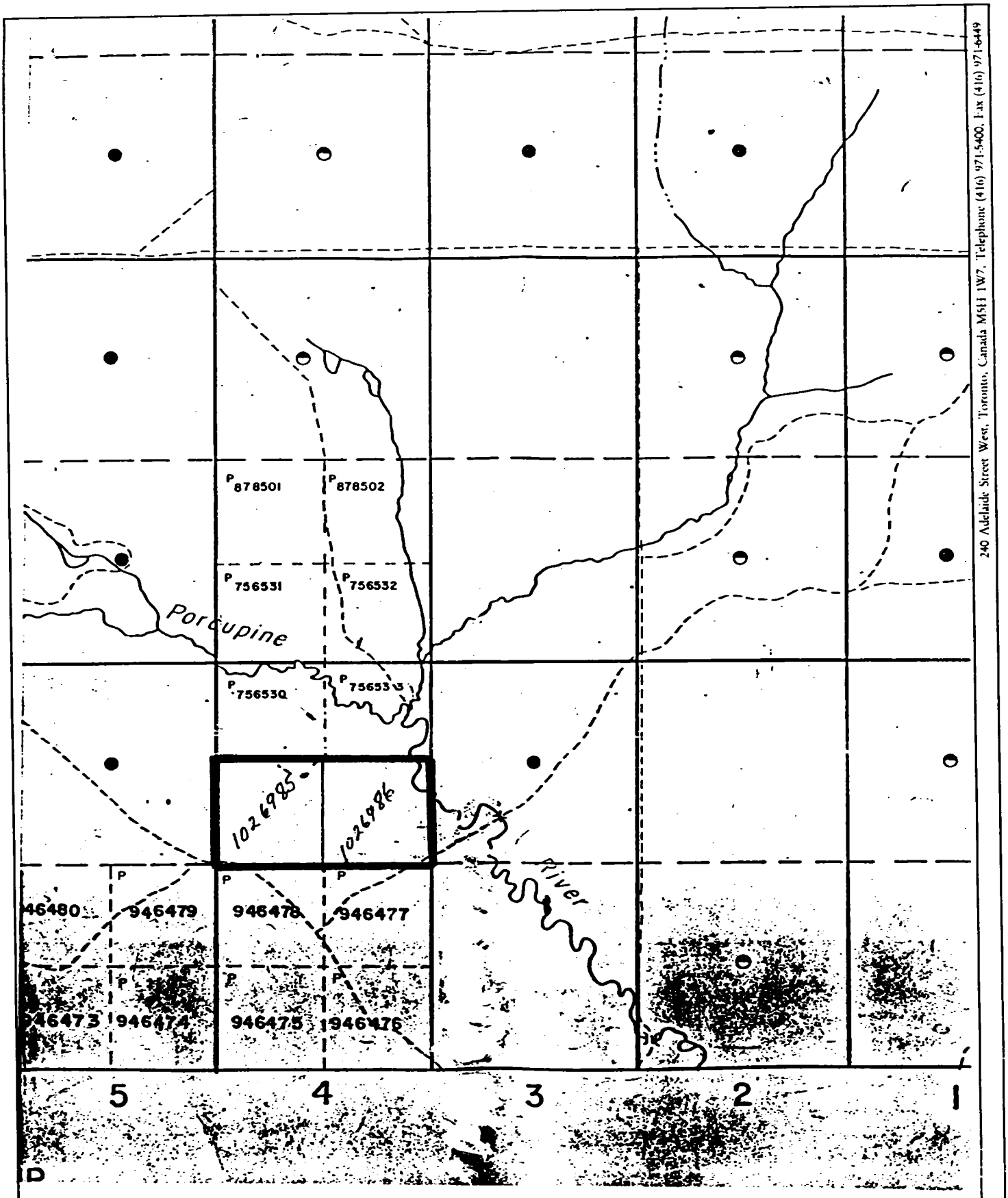

FIGURE **2B** Claim Location Map
(exact locations not certified)

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The latitude and longitude are 48 degrees 38 minutes, and 81 degrees 15 minutes respectively, and the N.T.S. reference is 42A/11.

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

P.1026985-1026986 (2) .... Total of 2 claims

MATHESON AND EVELYN TOWNSHIPS PROPERTY

This property is located in the north centre of Matheson township and the south centre of Evelyn township in the Porcupine Mining Division of Ontario about 28 kilometres northeast of the town of Timmins. The property is approximately one half a kilometre west of a major road which connects to Highway 610 at the settlement of Dugwal.

The latitue and longitude are 48 degrees 38 minutes, and 81 degrees 02 minutes respectively, and the N.T.S. reference is 42A/11.

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

P	59050	(1)	
	595101	(1)	
	997231-997232	(2)	
	997415-997416	(2)	.... Total of 6 claims

3. GEOLOGY

Map References

1. Map 48N: Big Water Lake Area. scale 1:63,360. O.D.M. 1939.
2. Map P.308: Clergue Township. scale 1:15,840. O.D.M. 1965.
3. Map 2205: Timmins-Kirkland Lake, Geological Compilation Series. scale 1:253,440. O.D.M. 1973.

CLERGUE TOWNSHIP PROPERTY (A-739.1)

No outcrops have been mapped within the survey area. By extrapolation from drilled hole data to the northeast the area is thought to be underlain by andesitic and rhyolitic metavolcanics trending to the northeast. A peridotite-pyroxenite mafic intrusive occurs to the northwest and hosts asbestos mineralization. Regionally faults trend to the east, northeast and north-northwest.

WARK TOWNSHIP PROPERTY (A-739.2)

The geological maps do not show any outcrops within the survey area. Regional mapping suggests that the property is underlain predominantly by northeast trending greywacke and minor rhyolite.

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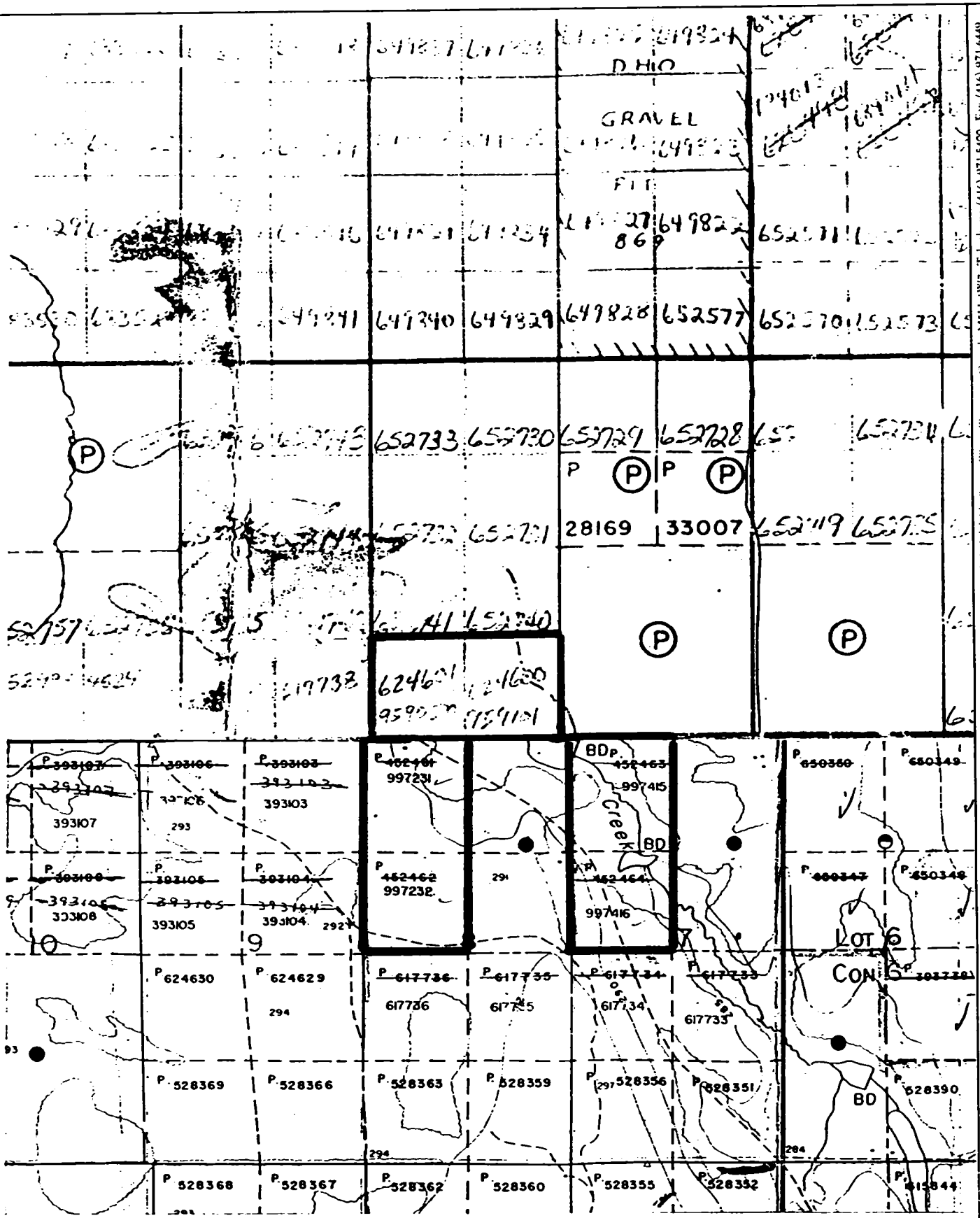

FIGURE 2C Claim Location Map
(exact locations not certified)

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Gabbroic intrusives are common throughout the area. Regional structures trend to the northeast, north-northeast and northwest. Diabase dykes trend to the north-northwest.

MATHESON AND EVELYN TOWNSHIPS PROPERTY (A-739.3)

There are no outcrops indicated on the geological maps within this survey area. Regional geology indicates east trending greywackes and slate. The property lies on the centre of an east trending syncline. Locally faults trend to the northwest and diabase dykes trend to the north.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The survey was carried out using a Cessna 182 aircraft, registration C-FAKK, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a proton precession type 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

The VLF sensor is mounted in the left wing tip extension.

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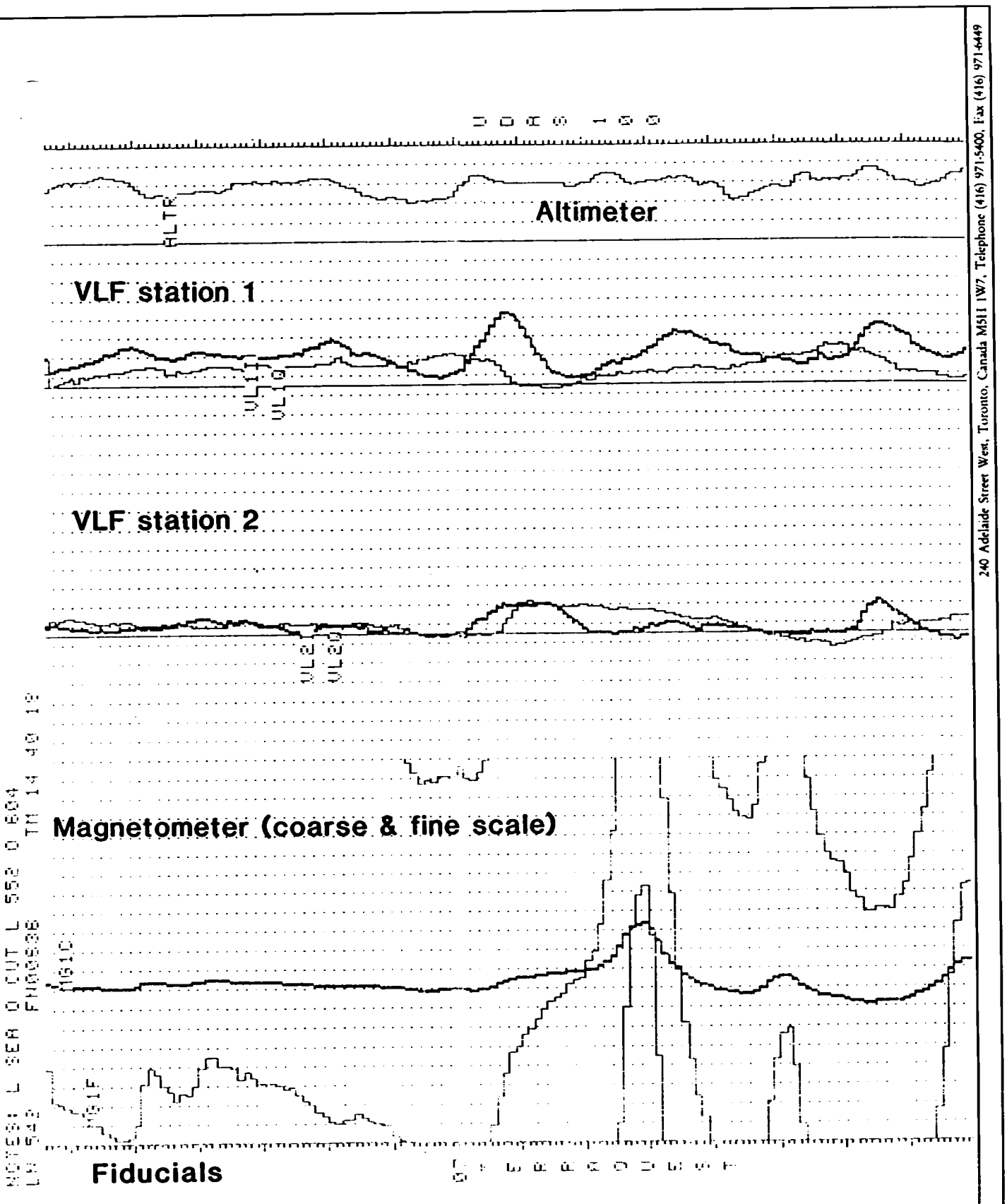

FIGURE 3. Sample of analogue data

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Other instruments are:

. King KRA-10A radar altimeter
. PDAS-1100 data acquisition system with two 3.5" floppy disk drives manufactured by Picodas Group Inc., Richmond Hill, Ontario.
. Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.
. PBAS-9000 portable field base station with a 3.5" floppy disk drive and an analog print out manufactured by Picodas Group Inc., Richmond Hill, Ontario, coupled with a GSM-8 proton magnetometer manufactured by Gem Systems Inc., Toronto, Ontario.

4.2 Lines and Data

a) Line spacing: 100 metres
b) Line direction: 000 degrees
c) Terrain clearance: 100 metres
d) Average ground speed: 156 km/hr.
e) Data point interval:
Magnetic: 27 metres
VLF-EM: 27 metres
f) Tie Line interval: 2 kilometres
g) Channel 1 (LINE): NAA Cutler, 24.0 kHz
h) Channel 2 (ORTHO): NSS Annapolis. 21.4 kHz
i) Line km over total survey area including overrun: 40 line km
j) Line km over claim groups: Clergue Township Property... 8 line km
Wark Township Property ..... 4 line km
Matheson, Evelyn Property ..12 line km

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.

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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.

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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INTERPRETATION

6.1 General Approach

To satisfy the purpose of the survey as stated in the introduction, the interpretation procedure was carried out on both the magnetic and VLF data. On a local scale the magnetic gradient contour patterns were used to outline geological units which have different magnetic intensity and patterns or "signatures". Where possible these are related to existing geology to provide a geological identity to the units. On a regional scale the total field contour patterns were used in the same way.

Faults and shear zones are interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting in the general area is taken into account when selecting faults. Folding is usually seen as curved regional patterns. Alteration zones can show up as 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.

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

6.2 Interpretation

The magnetic and VLF-EM data are shown in contoured format on maps in the back pocket. An interpretation map is also provided. The following notes are intended to supplement these maps.

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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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CLERGUE TOWNSHIP PROPERTY (A-739.1)

The total magnetic field over the Clergue township property has a relief of approximately 1,125 gammas and shows a strong magnetic anomaly trending to the northeast in the northwest corner of the survey area. This anomaly appears to dominate and overwhelm the responses from the rest of the survey area. The vertical magnetic gradient improves the resolution of the strong anomaly and enhances a weak magnetic trend to the south.

The strong anomalies to the northwest correlate well with the peridotite-pyroxenite intrusives (Unit 6). The remaining responses are interpreted to be derived from the andesitic and rhyolitic rocks (Unit 2). Horizons with a slight increase in magnetic activity (Unit 2m) are probably related to the andesitic or more mafic compositions.

Several northwest trending faults have been interpreted from displacements in the magnetic data. These possess the same orientation as a geologically mapped fault approximately two kilometres to the east of the survey area.

The VLF-EM survey shows very flat and uniform responses, probably a function of masking or saturation by wide spread conductive overburden. Three very weak to moderate strength conductor axes have been identified, all of them are associated with magnetically interpreted faults.

WARK TOWNSHIP PROPERTY (A-739.2)

The total magnetic field has a relief of approximately 40 gammas and shows a magnetic anomaly along the western edge of the survey and several weak anomalies trending to the northwest across the centre of the property. The vertical magnetic gradient data show greater continuity within the weaker magnetic anomalies.

The strongest anomaly to the west which is only approximately 30 gammas in relief, is interpreted to be derived from the rhyolitic metavolcanics (Unit 2). The quiet magnetic background is associated with the greywacke (Unit 5). The weak northwest trending anomalies cross-cut the regional trend and therefore are interpreted as diabase dykes (Unit 11).

Several northeast trending faults have been interpreted from disruptions in the east magnetic trends. Any faults trending to the northwest would be difficult to detect as they would parallel the diabasic magnetic units.

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The VLF-EM survey shows relatively flat and uniform responses, probably due to masking by conductive overburden. One moderately strong conductor axis south of the property trends to the northwest and is interpreted to be associated with structural sources.

MATHESON AND EVELYN TOWNSHIPS PROPERTY (A-739.3)

The total magnetic field has a relief of approximately 37 gammas, the higher responses are located to the north and south of the property. Very weak magnetic units trend to the northwest across the property. The vertical magnetic gradient data shows improved resolution of all the anomalies.

The low magnetic relief across the survey area is consistent with the regionally mapped greywacke (Unit 5). The weak magnetic trends (Unit 5m) are probably related to minor metavolcanic intercalations or possibly to increased concentrations of magnetic minerals such as pyrrhotite or magnetite.

Numerous northeast trending faults have been interpreted from the magnetic data, showing considerable displacement. Northwest trending faults would be difficult to detect by magnetic techniques.

The VLF-EM survey shows very weak and flat responses, probably related to extensive conductive overburden. There are no significant conductor axes indicated by this survey. Three very weak and poorly defined conductor axes are shown tentatively on the interpretation map. They may be associated either with structural or stratigraphic origins. These should be verified on the ground using EM or IP methods.

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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 number of new contacts and faults. A number of VLF-EM conductor axes were found of which most are associated with structural origins.

TERRAQUEST LTD.

Charles Q. Barrie, M.Sc.
Geologist

GEOLOGICAL ASSOCIATION OF CANADA
CHARLES Q. BARRIE

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

2.10908

AN ADDENDUM TO REPORT A-739 AIRBORNE VLF/EM SURVEY

COMPUTED VERTICAL GRADIENT OF TOTAL FIELD (IN-PHASE)

CLERGUE TOWNSHIP, WARK TOWNSHIP, MATHESON AND EVELYN TOWNSHIP

PORCUPINE MINING DIVISION, ONTARIO

for

MR. A.J. SALO

by

TERRAQUEST LTD.
Toronto, Canada

March 28, 1988

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

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LIST OF ACCOMPANYING VLF/EM AND INTERPRETATION MAPS

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

INTRODUCTION

The calculated vertical gradient of the total field VLF/EM data is an innovative application and is created by applying the same process as is used on the magnetic data. The calculation removes broad regional anomalies and leaves the short wavelength part of anomalies. Some advantages of treating the data this way are:

1) Improved resolution between strong conductors that on the unprocessed VLF/EM data appear as a large conductive area.

2) Enhancement of subtle conductor axes, revealing conductors that were too weak to be seen on the unprocessed data.

3) Reduces the necessity of the VLF/EM conductor to have optimum coupling with the transmitter.

4) The increase in the number of conductors improves the detection of faults and other displacement "structures".

The enhanced data is shown on colour plots, one for each property. An interpretation of each area is provided on drafting mylar and can be superimposed on the interpretation maps from the original report (A-739).

INTERPRETATION

In general, the vertical gradient enhancement of the VLF over all three properties shows a considerable increase in the number of conductor axes. It should be noted that the unprocessed VLF/EM data maps show very little relief in conductivity and therefore it is difficult to ascertain whether the enhancements are a mathematical artifact or a bonafide enhancement of weak conductors within the bedrock or overburden. Furthermore, the interpretation maps are highly subjective, several variations are possible.

The data over the Clergue Township property shows numerous southeast trending conductor axes, parallel to the magnetically interpreted faults. Displacement of these trends suggests the presence of several north to northeast trending faults.

The enhancement of the VLF/EM data from Wark Township property shows several southeast trending faults. These are parallel to both the magnetic units and the topographic features. It is suspected that they are related to structural sources. Several northeast trending structures have also been interpreted.

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The calculated vertical gradient of the total field VLF from the Matheson and Evelyn Townships property shows numerous conductor axes with a wide variety of orientations. Note that the original unprocessed VLF data map shows very weak responses that do not correlate very well with the magnetic data. It is suspected that most of these responses are related to a combination of overburden and bedrock sources and hence are very difficult to interpret. Most of the responses are so short that it is difficult to obtain a definitive orientation. This interpretation shows a variety of orientations with numerous faults trending to the northwest.

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Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT NO. W-8806

Instructions: — Please type or print

42A11NE8828 2.10908 CLERGUE

900

86-039

Mini

Type of Su... Airborne Magnetic + VLF Hilliard Matheson twp

Claim Holder(s): ARVO JOHN SALO

Prospector's Licence No.: A-46680

Address: GENERAL DELIVERY - PRINCE GEORGE B.C. V2L4R8

Survey Company: Terraquest Ltd.

Date of Survey (from & to): 2 2 88 (Day | Mo. | Yr.) — 2 2 88 (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	

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)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	997415	~~80~~
	997416	~~80~~
	997231	~~80~~
	997232	~~80~~

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

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MINING LANDS SECTION

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MAR 03 1988

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
MAY 19 1988
RECEIVED

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

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MAR 3 1988

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: 4

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
320	Mar. 3 1988	
	Date Approved as Recorded: 9 May 88	Branch Director: OK

Date: FEB 16/88

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: TERRA QUEST LTD - C.Q. BARRIE

Date Certified:

Certified by (Signature):

Ministry of Northern Development and Mines
Ontario

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

DOCUMENT No. 8806.042 ILE A MAG

2.10908 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 Magnetic and VLF-EM
Township or Area: Evelyn Twp
Claim Holder(s): ARVO JOHN SALO
Prospector's Licence No.: A-46680
Address: GENERAL DELIVERY - PRINCE GEORGE B.C. V2L4R8
Survey Company: Terraquest Ltd.
Date of Survey (from & to): 2 Day | 2 Mo. | 88 Yr. | 2 Day | 2 Mo. | 88 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 totals here	Geophysical	
	- 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	

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MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on (Claim(s))

Calculation of Expenditure Days Credits

Total Expenditures: S ÷ 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.

RECORDED
MAR - 3 1988

Date: FEB 16/88
Recorded Holder or Agent (Signature):

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	959050	~~80~~
	959101	~~160~~

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

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

For Office Use Only

Total Days Cr. Recorded: 160
Date Recorded: Mar 3/88
Date Approved as Recorded: 9 May 88
Branch Director: DK. Wilson
DOCUMENT No. 8806

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

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Ontario

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

Mining Act

AULF
DOCUMENT No. 8806·043
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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 Magnetic + VLF-EM
Township or Area: Mark. Twp
Claim Holder(s): ARIO SATO
Prospector's Licence No.: A-46650
Address: GENERAL DELIVERY - PRINCE GEORGE B.C., V2L4R8
Survey Company: Terraquest Ltd.
Date of Survey (from & to): 2 2 88 / 2 2 88 (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	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

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

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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):
MAR 3 1988
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: FEB 16/88
Recorded Holder or Agent (Signature):

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1026985	80
	1026986	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED
MAR - 3 1988

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

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Total Days Cr. Recorded: 160
Date Recorded: Mar 3/88
Date Approved as Recorded: 9 May 88
Mining Recorder:
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
TERRAQUEST LTD - C.Q. BARRIE

Ministry of Northern Development and Mines
Ontario

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

AULF
AMAG

DOCUMENT No. 8806.c44

2.10908

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 Magnetic + VLF-EM	Township or Area: Clergue Twp
Claim Holder(s): ARVO JOHN SALO	Prospector's Licence No.: A46680
Address: GENERAL DELIVERY – PRINCE GEORGE B.C. V2L4R8	
Survey Company: Terraquest Ltd.	Date of Survey (from & to): 2 2 88 / 2 2 88 (Day Mo. Yr.)
Total Miles of line Cut:	
Name and Address of Author (of Geo-Technical report): C/O 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	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

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MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1013956	~~80~~
	1013957	80
	1013958	80
	1013959	~~80~~

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED
MAR - 3 1988

Total number of mining claims covered by this report of work: 4

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$	÷	15	=	

RECEIVED
MAR 3 1988

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)
FEB 16/88	

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
320	Mar 3/88	
	Date Approved as Recorded	Branch Director
	9 May 88	OK. W. Cowan

Certification Verifying Report of Work

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Name and Postal Address of Person Certifying