Suite 905, 121 Richmond Street West, Toronto, Canada, M5H 2K1. Telephone (+1 (6) 869-0010

REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY ROLLO TOWNSHIP PORCUPINE MINING DIVISION, ONTARIO

for

ROLLO RESOURCES PROSPECTING SYNDICATE

ROLLOVER RESOURCES PROSPECTING SYNDICATE

HANSON LAKE PROSPECTING SYNDICATE

KENTY OPTIMISTS SYNDICATE

by

TERRAQUEST LTD.
Toronto, Canada

February, 1985

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1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Rollo Resources Prospecting Syndicate, Rollover Resources Prospecting Syndicate, Hanson Lake Prospecting Syndicate and Kenty Optimists Syndicate all of Toronto, Ontario by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed variously from November 25, 1985 to January 30, 1986 and the data processing, interpretation and reporting continued until February 28, 1986.

The purpose of a survey of this type is two-fold. One is to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 100 meters above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. THE PROPERTY

The property is located in Rollo township, in the Porcupine Mining Division of Ontario about 60 kilometers east of the town of Chapleau. The property lies in the southeastern part of the township and can be reached by logging roads connected to highway 101.

The latitude and longitude are 47 degrees 52 min., and 82 degrees 37 min. respectively, and the N.T.S. reference is 41 O/15.

The claim numbers are shown in figure 2. There are a total of 185 claims.

Rollo Resources Prospecting Syndicate

P.755324-755329	(7)	
P.755332	(1)	
P.755334-755378	(45)	
P.755417-755425	(9)	
P.755427-755435	(9)	total 71 claims

Rollover Resources Prospecting Syndicate

P.755330-755331	(2)
P.755333	(1)

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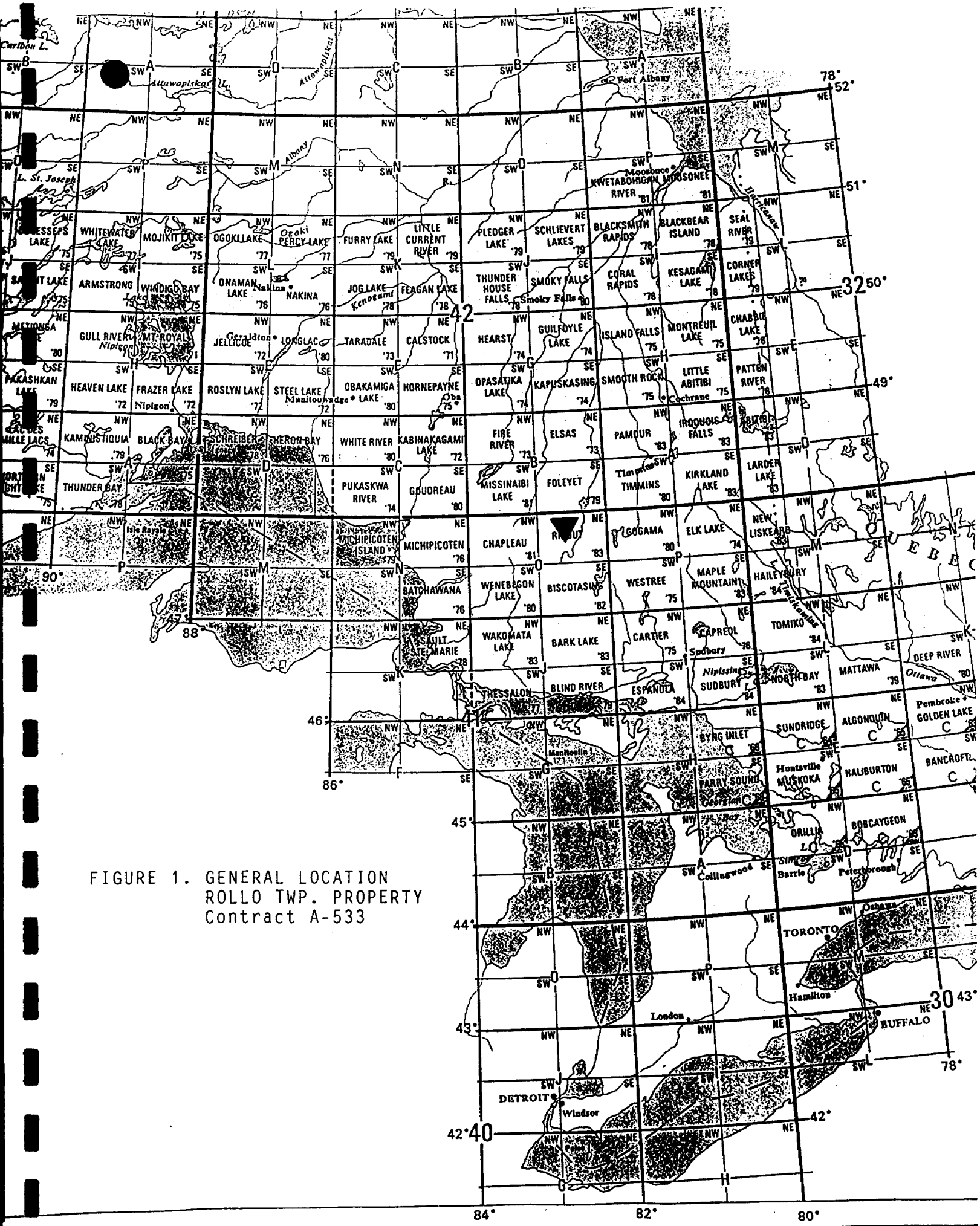
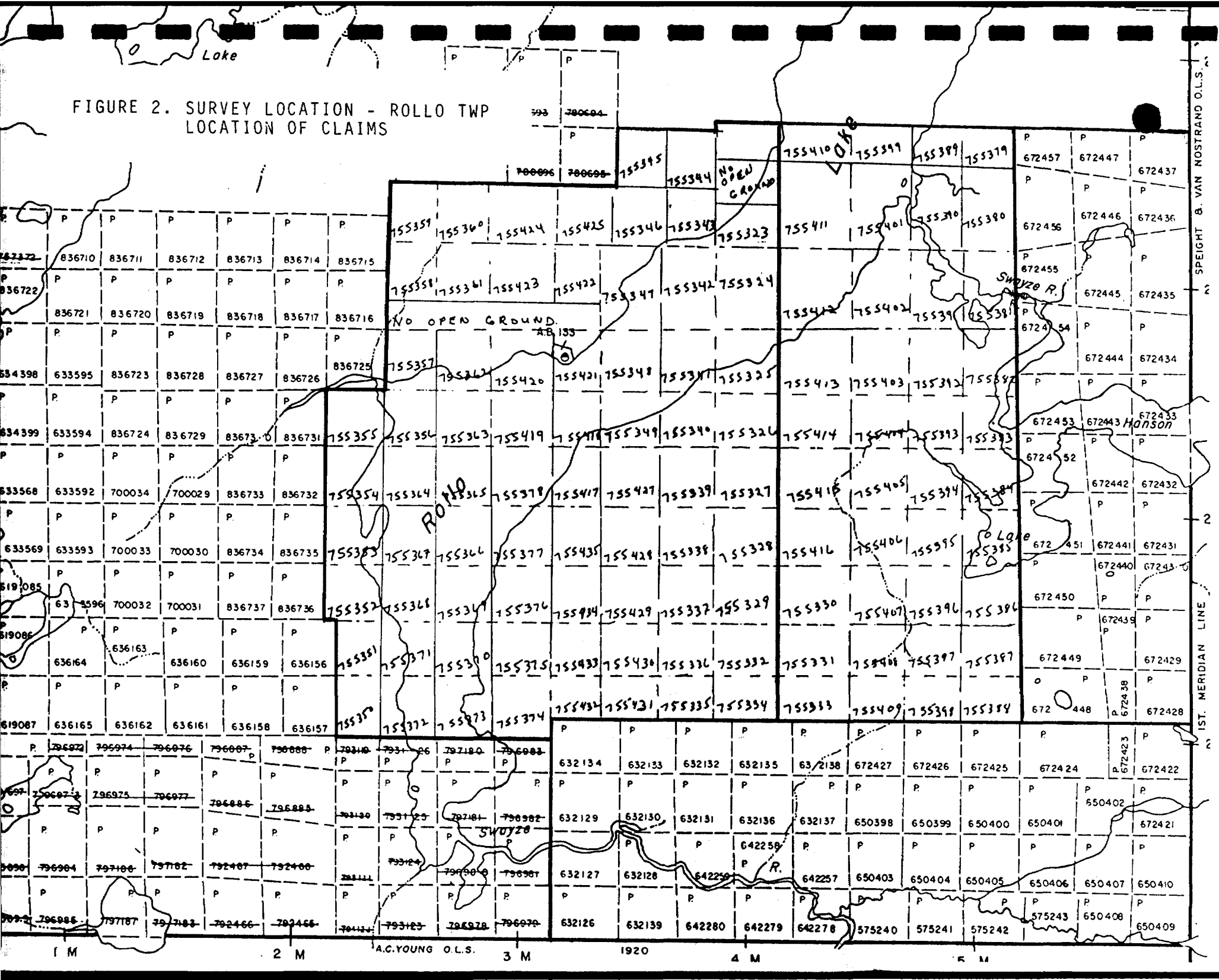


FIGURE 1. GENERAL LOCATION
ROLLO TWP. PROPERTY
Contract A-533

FIGURE 2. SURVEY LOCATION - ROLLO TWP
LOCATION OF CLAIMS



P.755339	(1)	
P.755379-755398	(20)	
P.755401-755416	(16)	total 40 claims

Hanson Lake Prospecting Syndicate

P.672428-672457	(30)	total 30 claims

Kenty Optimists Syndicate

P.575240-575243	(4)	
P.632126-632139	(14)	
P.642257-642259	(3)	
P.642278-642280	(3)	
P.650398-650410	(13)	
P.672421-672427	(7)	total 43 claims

3. GEOLOGY

Map References

1. Map 43b: Swayze Gold Area. scale 1:63,360, O.D.M. 1934
2. Map 2221: Chapleau - Foleyet, Geological Compilation Series. scale 1:253,440, O.D.M. 1976
3. Map 2352: Chapleau. scale 1:250,000, O.D.M. 1976
4. Corporate Map: Kenty Resources Ltd. Property, Geological Mapping, Rollo Twp., scale 1:2,500, R.J.Graham P.Eng., Oct. 1983

The survey area is underlain primarily by mafic to intermediate metavolcanics with minor intercalated beds of felsic metavolcanics and metasediments. A 500 metre wide belt of sediments crosses the area parallel to the Swayze River. A complex of foliated biotite and hornblende-biotite quartz monzonite occurs along the northwestern shore of Rollo Lake.

The notheast trending Destor-Porcupine Break bisects the area and is characterized by diabasic material. Other diabase dykes occur with northerly and northwesterly trends.

4. SURVEY SPECIFICATIONS

4.1 Instruments

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

The magnetometer is a proton precession type with the sensor element mounted in an extension of the right wing tip. It's

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specifications are as follows:

Resolution:	0.5 gamma
Accuracy:	One gamma
Cycle time:	One second
Range:	20000-100000 gammas in 23 overlapping steps
Gradient tolerance:	Up to 5000 gammas per meter
Model:	GSM-8BA
Manufacturer:	GEM Systems Inc., 105 Scarsdale Rd., Don Mills, Ontario, M3B 2R5

The VLF-EM unit uses three orthoganol detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase relationship between the vertical coil and both the "along line" coil (LINE) and the "cross-line" 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.

Other instruments are:

- King KRA-10A Radar altimeter
- UDAS-100 data processor with Digidata nine track tape recorder, manufactured by Urtec Ltd., Markham, Ontario.
- Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.

4.2 Lines and Data

a) Line spacing:	100 meters	
b) Line direction:	360 degrees	
c) Terrain clearance:	100 meters	
d) Average ground speed:	156 km/hr.	
e) Data point interval:	Magnetic:	42 meters
	VLF-EM:	21 meters
f) Tie Line interval:	2 kilometers	
g) Channel 1 (LINE):	NAA Cutler, Me., 24.0 kHz	
h) Channel 2 (ORTHO):	NSS Annapolis. 21.4 kHz	

i) Line km over total survey area: 357
j) Line km over claim groups: 333

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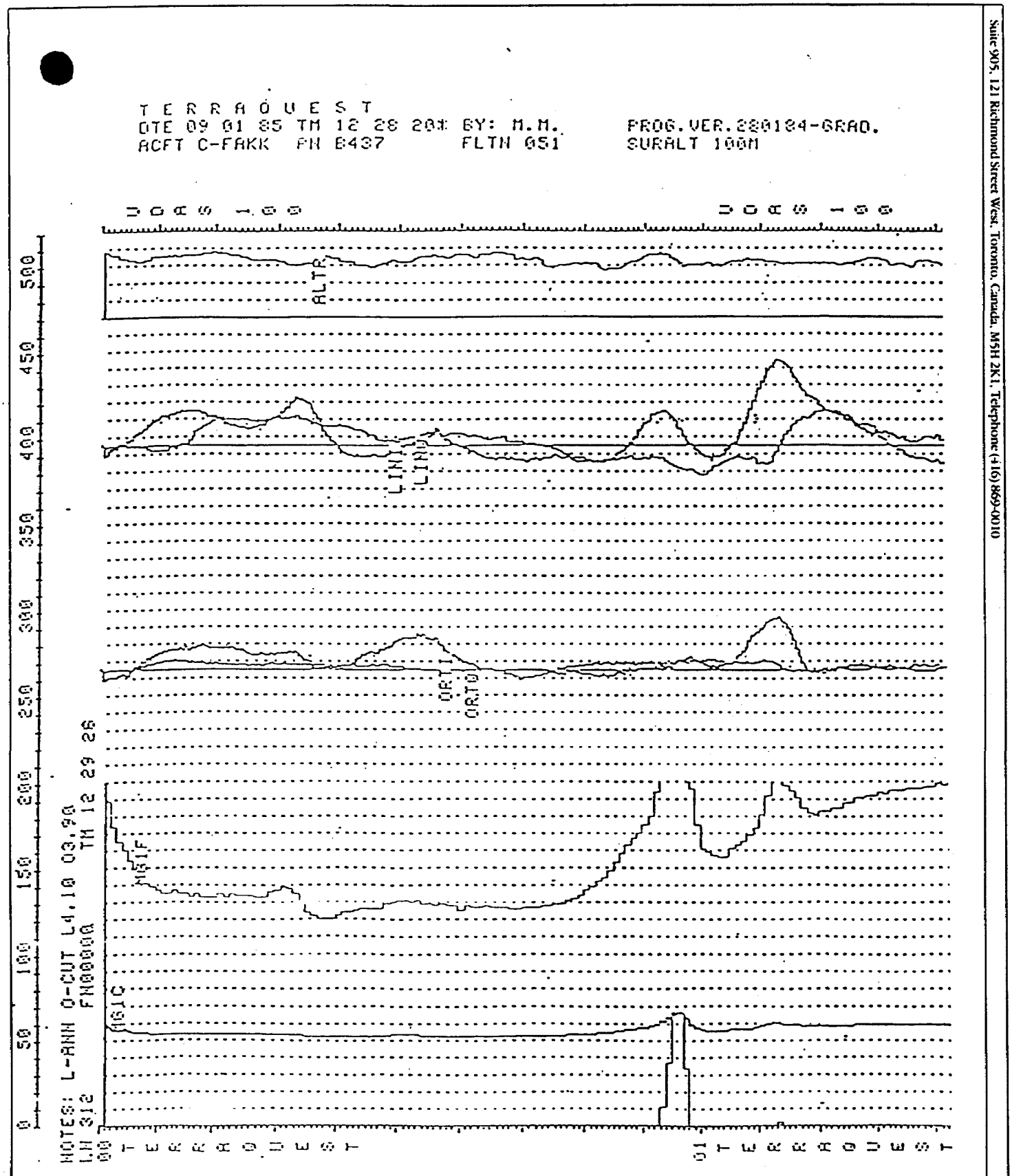

FIGURE 3. SAMPLE OF ANALOGUE DATA

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4.3 Tolerances

a) Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line.
b) Terrain clearance: Portions of line which were flown above 125 meters for more than one km were reflown if safety considerations were acceptable.
c) Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.
d) Manoeuvre noise: Approximately +/-5 gammas.

4.4 Photomosaics

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

5. DATA PROCESSING

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

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF was not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/4 the flight line spacing.

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

Grant, F.S. and Spector A.; 1970; Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35
Grant, F.S.; Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics, August 1972.
Spector, A.; Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto, 1961.

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The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

INTERPRETATION

6.1 General Approach

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

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

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6.2 Interpretation

The total field magnetic data has a relief of approximately 750 gammas, a substantial relief for the size of the survey area. The major stratigraphic units and diabase dykes are readily discernable. The more detailed stratigraphy and structure can be resolved from the vertical gradient maps which were used as the basis for magnetic mapping.

The most uniform and weakest magnetic response coincides with the metasedimentary belt along the Swayze River valley. The sediments are essentially magnetically invisible and can be mapped as a lack of magnetic response. The detailed property geological map in this area indicates minor felsic volcanics within this belt. This suggests that any minor magnetic perturbations may be related to volcanic intercalations.

The strongest magnetic activity correlates with the mafic volcanics and minor mafic intrusives along the southern edge of the survey area. The mafic intrusives possess a northerly trend whereas the mafic volcanics trend to the west northwest. The mafic volcanics along this belt and across the rest of the survey area are characterized by moderate (Unit 1) to very strong (Unit 1m) magnetic responses. The increased magnetic activity may be related to the more mafic components including hypabyssal volcanics or sulphides, particularly pyrrhotite.

The felsic volcanics only occur in several outcrops, hence correlation with magnetic units is very difficult. Both moderate (Unit 2) and strong (Unit 2m) magnetic responses occur for much the same reasons as for the mafic rocks. The strongly magnetic felsic unit 2m in the southeastern corner coincides with an exposure of pyrite rich rhyolite. The westward continuation of this trend may represent any combination of felsic to mafic metavolcanics with disseminated sulphides.

The monzonite complex to the north coicides with weak (Unit 6) to moderate (Unit 6m) magnetic activity, the magnetic zones representing the more basic or iron rich components. The northerly trend of the magnetic zones in this area suggest a diabase dyke origin, although they could be part of the intrusive complex. The contact of the complex is magnetically gradational but can be best resolved from the total field magnetic data.

The diabasic material of the Destor-Porcupine Break is well delineated by a very strong magnetic response. Smaller diabase dykes trend to the north and northwest.

Numerous faults trend to the northwest, possessing minor variances in azimuth that suggest several stages of activity. Northerly, easterly and northeasterly trending faults are present but are difficult to detect due to the fact that they parallel magnetic stratigraphy.

There are numerous very strong and well defined VLF-EM conductor axes. The two that coincide with the sedimentary belt are formational type conductors and are probably related to graphitic horizons. The six northwest trending conductor axes are most likely related to faulting either as disseminated mineralization, water saturation or fault gouge. The remaining conductor axes may be related to northeast trending faults, conductive overburden such as lakebottom clayey sediments, or bedrock origins such as graphite or sulphides. Those parallel to magnetic stratigraphy or those that have been displaced by or truncated against faults possess the greastest potential for bedrock origins. These should be investigated by detailed mapping and ground EM or I.P.

7. SUMMARY

A combined magnetic and VLF-EM survey has been done on the survey area at a data density of approximately 1.6 km. per mineral claim. The magnetic data has been used to modify and update the existing geology and has shown a number of new contacts and faults. A number of VLF-EM conductor axes were found of which some are believed to be have potential sulphide origin and have been recommended for additional investigation.

TERRAQUEST LTD.

Charles Q. Barrie, M.Sc.
Geologist

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

900

Mining Lands Section

File No 2.8952

Control Sheet

TYPE OF SURVEY

✓ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

J. Hurst

Signature of Assessor

April 2/86

Date

cpi

Ministry of Natural Resources
Ontario

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

Terraquest's # A-533 2.895²

W.R. # 078|86

Rollo Twp.

The 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)	Township or Area
Airborne Geophysical - MAG & VLF	Swayze Property

Claim Holder(s)	Prospector's Licence No.
KENTY RESOURCES LTD.	T.1364

Address: 508 -- 100 Adelaide St. W., TORONTO, Ont. M5H. 1S3.

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Terraquest Ltd.,	25 11 85 (Day / Mo. / Yr.) to 25 11 85 (Day / Mo. / Yr.)	flown 44 flight-miles at 100-meter line intervals.

Name and Address of Author (of Geo-Technical report)
C.Q. Barrie, 905 - 121 Richmond St. W., Toronto, Ont. M5H 2K1

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	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- 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	

RECORDED MAR 06 1986

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

RECEIVED MAR 06 1986 MINING LANDS DIVISION

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	~~575240~~	80
	~~595241~~	80
	~~595242~~	80
	~~595243~~	80
	632126	80
	-127	80
	-128	80
	-129	80
	-130	80
	-131	80
	-132	80
	-133	80
	-134	80
	-135	80
	-136	80
	-137	80
	-138	80
	-139	80
	642257	80
	642258	80
	642259	80
	642278	80
	642279	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	642280	80
	650398	80
	-399	80
	-400	80
	-401	80
	-402	80
	-403	80
	-404	80
	-405	80
	-406	80
	-407	80
	-408	80
	-409	80
	-410	80
	672421	80
	-422	80
	-423	80
	-424	80
	-425	80
	-426	80
	-427	80

Total number of mining claims covered by this report of work: 40

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2800	Mar. 6/86	
	Date Approved as Recorded: 86.4.7	Branch Director

Date	Recorded Holder or Agent (Signature)
28 Feb.'86.	Albert Hopkins.

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. Report + Maps in Duplicate to follow.

Name and Postal Address of Person Certifying
ALBERT HOPKINS, 810 Duplex Av., TORONTO, Ont. M4R. 1W7,
Director of Kenty Resources Ltd.

Date Certified: 28 Feb.'86. Certified by (Signature): Albert Hopkins

Mining Lands, TORONTO

Ministry of Northern Development and Mines
Ontario

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

W.R. #079/86 Terraquest's # A.533. 2.85

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 Survey

Township or Area: Rollo Township

Claim Holder(s): HANSON LAKE RESOURCES LTD.

Prospector's Licence No.: T.1640,

Address: 9 BRYNSTON Rd., ISLINGTON, Ont. M9B 3C5.

Survey Company: Terraquest Limited

Date of Survey (from & to): 25 Day 11 Mo. 85 Yr. | 27 Day 11 Mo. 85 Yr.

Total Miles of line flown: 30 flight-line miles at 100-meter intervals.

Name and Address of Author (of Geo-Technical report): Charles Q. Barrie, Terraquest Ltd., 121 Richmond St. W., Ste. 905, Toronto, ON M2H 2K1

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	

RECORDED MAR 06 1986

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	672428	80
	29	80
	30	80
	31	80
	32	80
	33	80
	34	80
	35	80
	36	80
	37	80
	38	80
	39	80
	40	80
	41	80
	42	80
	43	80
	44	80
	45	80
	46	80
	47	80
	48	80
	49	80
	50	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	672451	80
	52	80
	53	80
	54	80
	55	80
	56	80
P	672457	80

Total number of mining claims covered by this report of work: 30

Expenditures (excludes power stripping)

RECEIVED MAR 0 - 1986

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: 2400	Date Recorded: Mar. 6/86	Mining Recorder: Stanley
	Date Approved as Recorded: 86.4.7	Director:

Date	Recorded Holder or Agent (Signature)
28 Feb. '86	Albert Hopkins

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. Report + Maps in Duplicate to Follow.

Name and Postal Address of Person Certifying: ALBERT HOPKINS, 810 Duplex Av., TORONTO, Ont. M4R 1W7.

Geologist + Prospector for Claims Holder.

Date Certified: 28 Feb. '86

Certified by (Signature): Albert Hopkins.

1362 (85/12)

Mining Lands, Sudbury

Ministry of Natural Resources
Ontario

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

Terraquest's # A-533
W.R. # 080/8695 2.

The 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 Geophysical - Mag & VLF (Gerald Faucher M-21929)
Township or Area: Rollo Township
Claim Holder(s): Lysen St Laurent, B-21922 — ROLLO RESOURCES PROSPECTING SYND.
Prospector's Licence No.: various
Address: 385-A Spadina Rd, TORONTO, Ont, M5P, 2W1.
Survey Company: Terraquest Ltd.
Date of Survey (from & to): 08 11 85 (Day Mo. Yr.) — 25 11 85 (Day Mo. Yr.)
Total Miles of line flown: 71 flight-line miles at 100 meter line spacing.
Name and Address of Author (of Geo-Technical report): C. Q. Barrie, 905 - 121 Richmond St. West, Toronto, Ontario. M5H 2K1

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

RECORDED MAR 06 1986

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

RECEIVED PORCUPINE MINING DIVISION MAR 06 1985

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: 28 Feb.'86.
Recorded Holder or Agent (Signature): Albert Hopkins

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	755323	80
	24	80
	25	80
	26	80
	27	80
	28	80
	29	80
	755332	80
	755334	80
	35	80
	36	80
	37	80
	38	80
	39	80
	40	80
	41	80
	42	80
	43	80
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	61	80
	62	80
	63	80
	64	80
	65	80
	66	80
	67	80
	68	80
	69	80
	70	80
	71	80
	72	80
P	755373	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	755374	80
	75	80
	76	80
	77	80
	755378	80
	755417	80
	18	80
	19	80
	20	80
	21	80
	22	80
	23	80
	24	80
	755425	80
	755427	80
	28	80
	29	80
	30	80
	31	80
	32	80
	33	80
	34	80
P	755435	80

Total number of mining claims covered by this report of work: 71

For Office Use Only

Total Days Cr. Recorded: 5680
Date Recorded: Mar. 6/86
Date Approved as Recorded: 86.4.7
Mining Recorder: T. Stanley
Branch Director: [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. Report + Maps in duplicate to follow

Name and Postal Address of Person Certifying
ALBERT HOPKINS, 810 Duplex Av., TORONTO, Ont. M4R. 1W7.
Geologist + Prospector for Claim Holder.

Date Certified: 28 Feb.'86.
Certified by (Signature): Albert Hopkins

1362 (81/9)

Forward to Mining Lands, Toronto.

Ministry of Natural Resources
Ontario

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

Terraquest's # A.533
W.R. # 081/86, 2852

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 Geophysical - Mag. & VLF.-E.M.

Township or Area: Rollo Township.

Claim Holder(s): Beneficial Lucien St. Laurent M-21922 Ivon Audy M-21921
ROLLOVER RESOURCES PROSPECTING SYND.

Prospector's Licence No.: various

Address: 385-A Spadina Rd., TORONTO, Ont, M5P.2W1.

Survey Company: TERRAQUEST Ltd. of TORONTO, Ont.

Date of Survey (from & to): 08 11 85 (Day Mo. Yr.) 25 11 85 (Day Mo. Yr.)

Total Miles of line flown: 40 flight line-miles at 100 meter line spacing.

Name and Address of Author (of Geo-Technical report): C.Q. Barrie, 905 - 121 Richmond St. W., TORONTO, Ont. M5H 2k1.

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	

RECORDED MAR 06 1986

RECEIVED MAR 06 1986 MINING LANDS SECTION

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.

Date: 28 Feb.'86. Recorded Holder or Agent (Signature): albert Hopkins

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	755330	80
	755331	80
	755333	80
	755379	80
	80	80
	81	80
	82	80
	83	80
	84	80
	85	80
	86	80
	87	80
	88	80
	89	80
	90	80
	91	80
	92	80
	93	80
	94	80
	95	80
	96	80
	97	80
	98	80
P.	755399	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	755401	80
	2	80
	3	80
	4	80
	5	80
	6	80
	7	80
	8	80
	9	80
	10	80
	11	80
	12	80
	13	80
	14	80
	15	80
P.	755416	80

Total number of mining claims covered by this report of work: 40

For Office Use Only

Total Days Cr. Recorded: 3200

Date Recorded: Mar. 6/86

Date Approved as Recorded: Mar. 6/86

Mining Recorder: [signature]

Branch Director: [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. Report + Maps in duplicate to follow to Mining Lands, TORONTO.

Name and Postal Address of Person Certifying: ALBERT HOPKINS 810 Duplex Av. TORONTO, Ont. M4R.1W7.

Geologist + Prospector for Claim Holder.

Date Certified: 28 Feb.'86.

Certified by (Signature): albert Hopkins

1362 (81/9)

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

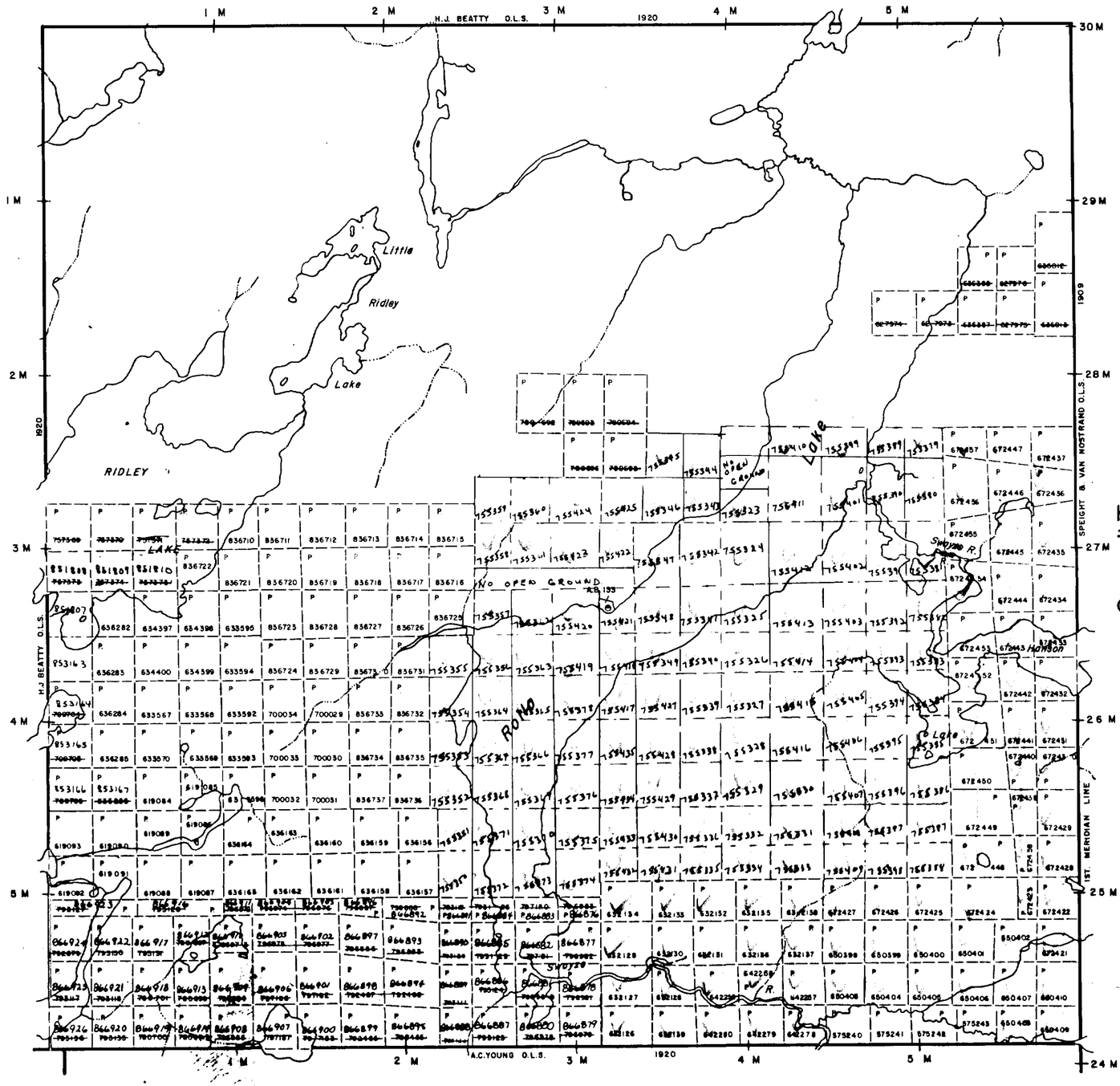
M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

Biggs Twp.



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 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

Up to date as of:
Dec 19/85

TOWNSHIP

ROLLO

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources — Land Management Branch

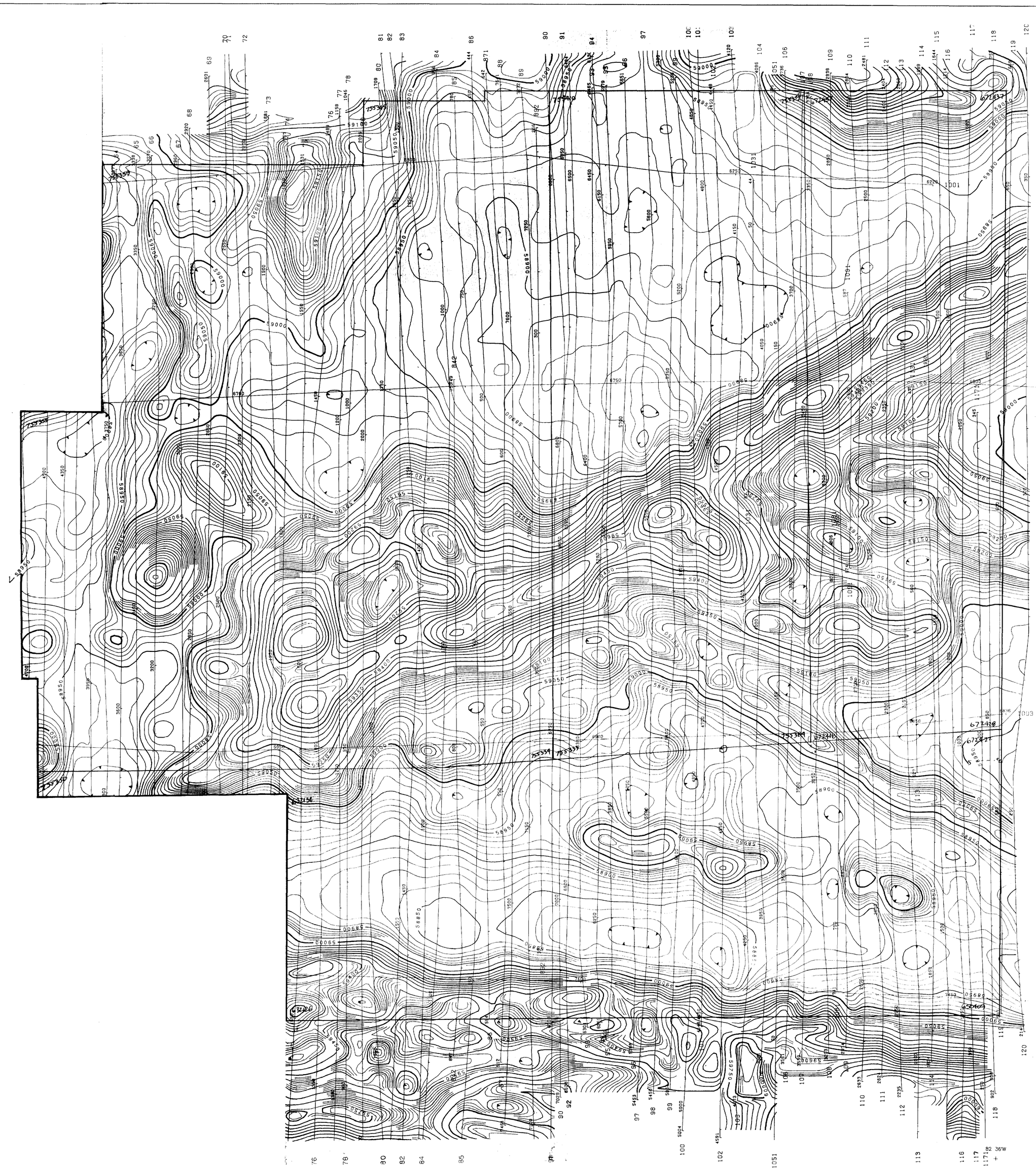
Ontario

Date	Number
MARCH, 1985	G-3246

- by CJ June 4/85

41015NE0007 2.8952 ROLLO

200



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters
1000 gammas	
250 gammas	
50 gammas	
10 gammas	

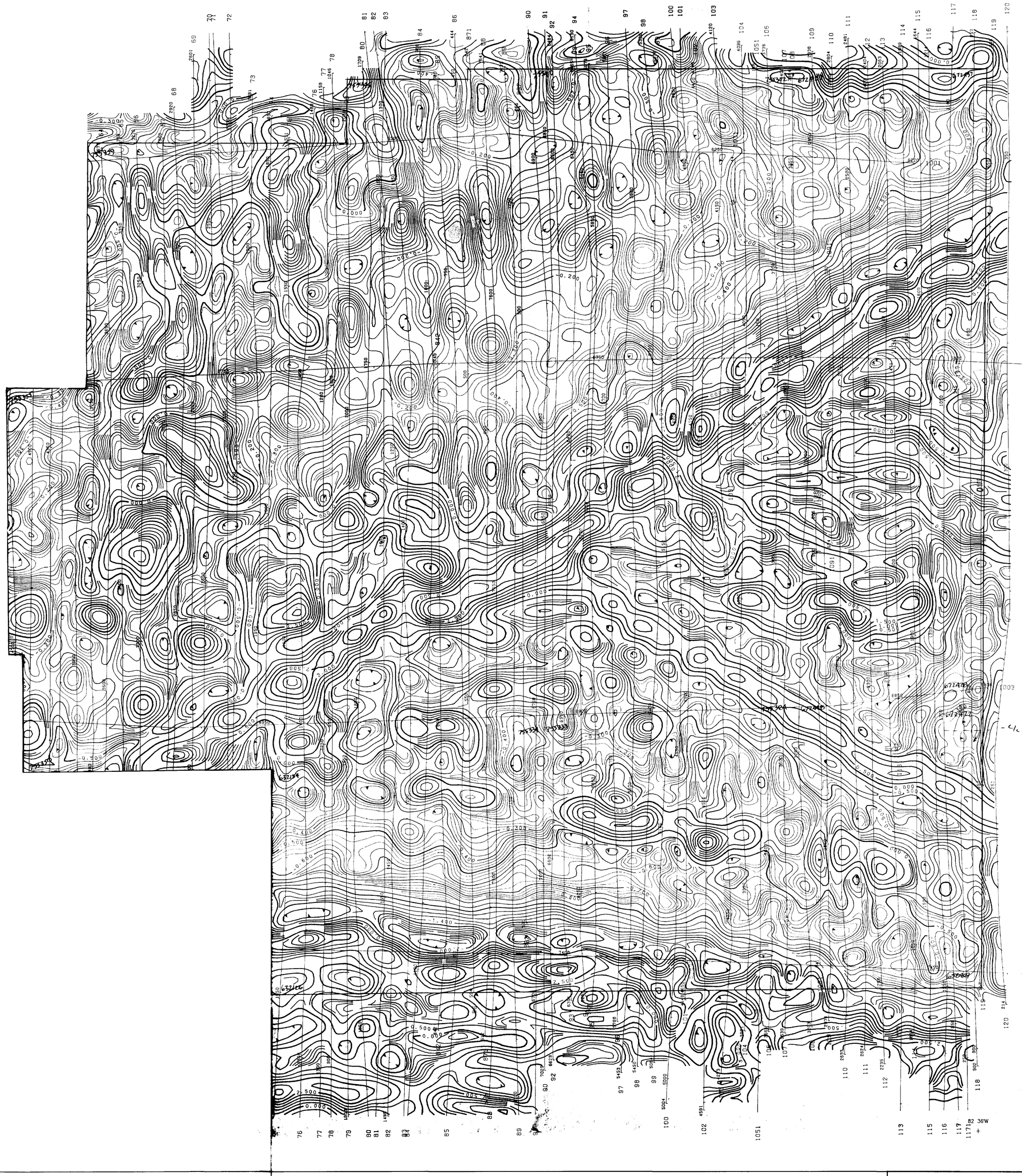
ROLLOVER RESOURCES PROSPECTING SYNDICATE
ROLLO RESOURCES PROSPECTING SYNDICATE
HANSON LAKE PROSPECTING SYNDICATE
KENTY OPTIMISTS SYNDICATE

AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

ROLLO TOWNSHIP – ONTARIO

N.T.S. NO:	41 O/15	DRAWING NO.	A-533-1
SCALE	1:10,000	DATE:	February 1986

TERRAQUEST LTD.
TORONTO, CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters
2.500 gammas / meter	
.500 gammas / meter	
.100 gammas / meter	
.025 gammas / meter	

ROLLOVER RESOURCES PROSPECTING SYNDICATE
ROLLO RESOURCES PROSPECTING SYNDICATE
HANSON LAKE PROSPECTING SYNDICATE
KENTY OPTIMISTS SYNDICATE

AIRBORNE MAGNETIC SURVEY

VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

ROLLO TOWNSHIP – ONTARIO

N.T.S. NO: 41 O/15	**DRAWING NO.** A-533-2
SCALE 1:10,000	**DATE:** February 1986

TERRAQUEST LTD.
TORONTO, CANADA

220

47 54'N

47 51'N

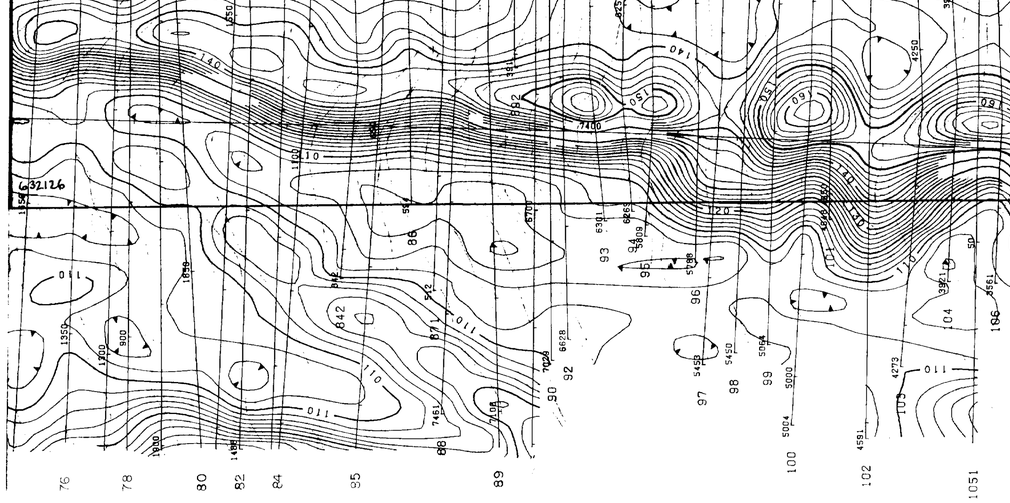
82 36'W

1001

1002

1003

1004



ROLLOVER RESOURCES PROSPECTING SYNDICATE
ROLLO RESOURCES PROSPECTING SYNDICATE
HANSON LAKE PROSPECTING SYNDICATE
KENTY OPTIMISTS SYNDICATE

AIRBORNE VLF-EM SURVEY

CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

ROLLO TOWNSHIP – ONTARIO

N.T.S. NO:	41 O/15	DRAWING NO.	A-533-3
SCALE	1:10,000	DATE:	February 1986

TERRAQUEST LTD.
TORONTO, CANADA

41015NE0007 2.8952 ROLLO

230

47 54N

47 51N

82 36'W

LEGEND

INTERPRETATION

- Contact
- Fault
- Property Boundary

VLF-EM Conductor Axes

- normal quadrature
- reverse quadrature
- in phase only (no quadrature)

LITHOLOGY

9	Diabase dykes
6	Biotite and Hornblend–Biotite quartz monzonite
4	Mafic instrusive
3	Metasediments; greywacke, quartzite, slate
2m	Magnetic units within 2
2	Felsic to intermediate metavolcanics
1m	Magnetic units within 1
1	Mafic to intermediate metavolcanics

SYMBOLS

- ▲ Mineralization

VLF TRANSMITTER
NAA CUTLER 24.0 kHz
Az. 101.2°

41015NE0007 2.8952 ROLLO

240

ROLLOVER RESOURCES PROSPECTING SYNDICATE
ROLLO RESOURCES PROSPECTING SYNDICATE
HANSON LAKE PROSPECTING SYNDICATE
KENTY OPTIMISTS SYNDICATE

INTERPRETATION

2.8952

ROLLO TOWNSHIP – ONTARIO

N.T.S. NO: 41 O/15	DRAWING NO. A-533-4
SCALE 1:10,000	DATE: February 1986

TERRAQUEST LTD.
TORONTO, CANADA