



41115NE0019 0026 MACKELCAN

010

T-5019

Suite 5019, 121 Richmond Street West, Toronto, Canada, M5H 2K1, Telephone (416) 969-1010

REPORT ON AN
AIRBORNE MAGNETIC AND VLF-EM SURVEY
RATHBUN, MACKELCAN & SCADDING TOWNSHIPS
SUDBURY MINING DIVISION, ONTARIO

for
FLAG RESOURCES LTD.

RECEIVED

OCT 30 1985

by MINING LANDS SECTION

TERRAQUEST LTD.
Toronto, Canada

October 29, 1985

Inv. 2.8305

TERRAQUEST LTD.





41115NE0019 0026 MACKELCAN

010C

Unit 915, 121 Richmond Street West, Toronto, Canada, M5H 2K1, Telephone (416) 469-0010

TABLE OF CONTENTS

	Page
1. INTRODUCTION	1
2. THE PROPERTY	1
3. GEOLOGY	2
4. SURVEY SPECIFICATIONS	2
4.1 Instruments	2
4.2 Lines and Data	3
4.3 Tolerances	4
4.4 Photomosaics	4
5. DATA PROCESSING	4
6. INTERPRETATION	5
6.1 General Approach	5
6.2 Interpretation	6
7. SUMMARY	7

LIST OF FIGURES

- Fig. 1 - General Location Map
- Fig. 2 - Survey Area Map
- Fig. 3 - Sample Analogue Data

LIST OF MAPS IN JACKET

- No. T-5019-1, Total Magnetic Field
- No. T-5019-2, Vertical Magnetic Gradient
- No. T-5019-3, VLF-EM Survey
- No. T-5019-4, Interpretation



1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Flag Resources Ltd. of 1250-550 6th Ave., Calgary, Alta., T2P 0S2 by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on June 3, 1985 and the data processing, interpretation and reporting from June 4 to October 29, 1985.

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 Rathbun, Mackelcan and Scadding townships, in the Sudbury Mining Division of Ontario about 40 air-kilometres northeast of Sudbury, on the east side of Lake Wanapitei. The area is readily accessible by logging roads from the south.

The latitude and longitude are 46 degrees 47 min., and 80 degrees 37 min. respectively, and the N.T.S. reference is 411/10 and 15.

The claim numbers are as follows:

S. 577356-577376	(21)
S. 585332-585348	(17)
S. 585583-585589	(7)
S. 595875-595888	(14)
S. 808905-808914 ✓	(10)
S. 808922-808926 ✓	(5)
S. 808928-808941 ✓	(14)
S. 808989-809002 ✓	(14)
S. 809096-809156 ✓	(61)
S. 826221-826270 ✓	(50)
S. 830611-830613 ✓	(3)

total claims 216

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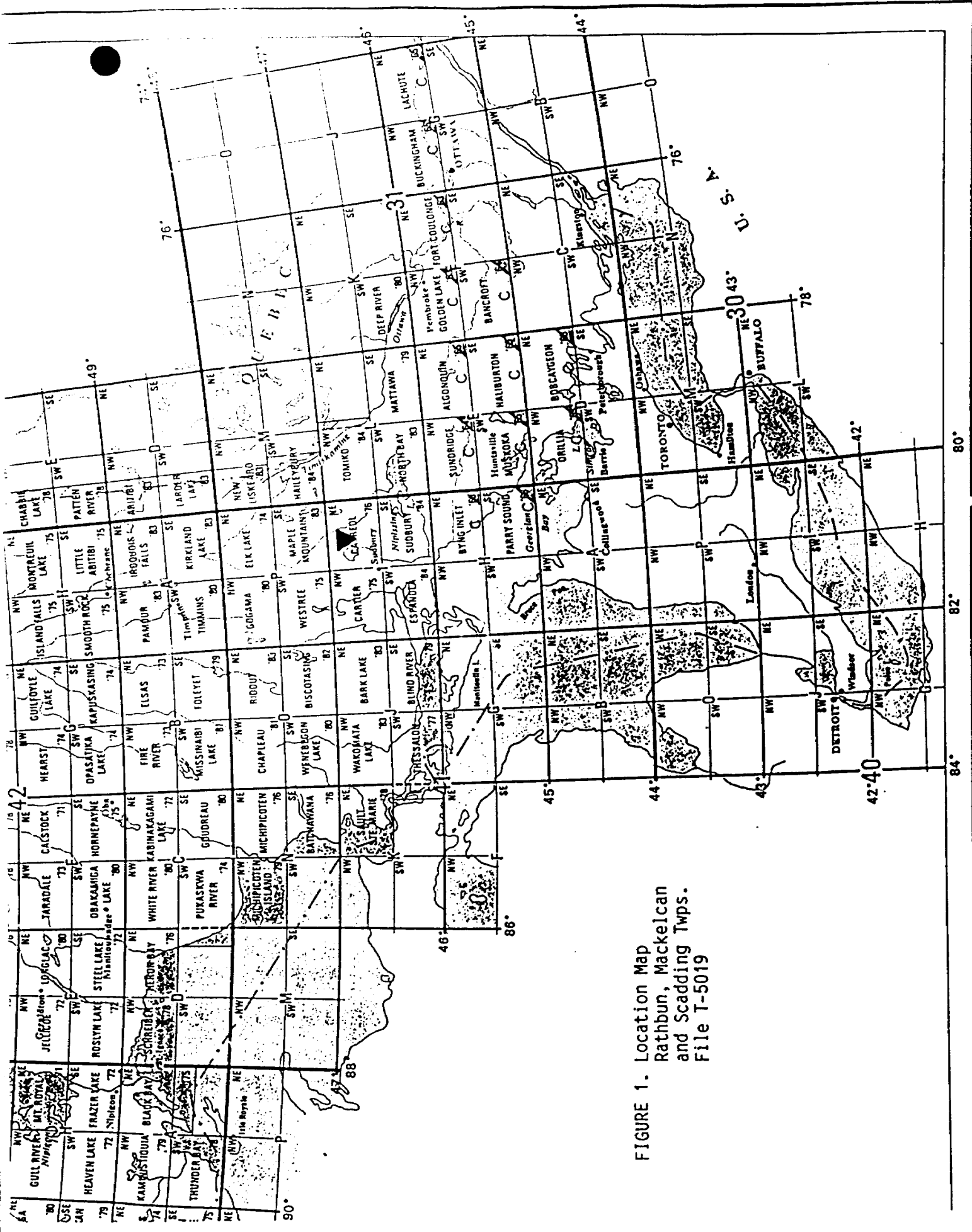


FIGURE 1. Location Map
 Rathbun, Mackelcan
 and Scadding Twps.
 File T-5019

3. GEOLOGY

Map References

1. Map 2009: Maclellan and Scadding Townships. scale 1:31,680 , O.D.M., 1961
2. Map 2361: Sudbury-Cobalt, Geological Compilation. scale 1:253,440, O.G.S. 1977

Only the Scadding Township area has been mapped in detail by the provincial government; for the remaining area reference is made to the large scale compilation map.

Three stratigraphic units underlie the area. From south to north , up stratigraphic succession, these units are the Mississagi, Gowganda and Lorrain Formations, all composed primarily of sandstones, siltstones, conglomerates and argillites.

All sedimentary units are intruded by the generally gabbroic Nipissing Diabase unit. Exposures in central and eastern Rathbun Township have been mapped as hornblende gabbro, metagabbro and amphibolite. Regionally beyond the survey area this unit also incorporates pyroxene gabbro, pyroxenite and granophyre.

An open synclinal axis and numerous late stage regional faults trend to the northwest; minor earlier faults trend to the northeast.

Nine zones of mineralization occur within the map area and include platinum-palladium sulphides, copper, nickel, gold and silver. These zones have been identified on the interpretation map:

- (1) Rathbun Lake Deposit
- (2) Crystal Gold Mine
- (3) Mondoux Mine
- (4) Last Chance Mine
- (5) Boot Lake Showing
- (6) St. Thomas Showing
- (7) Jess Lake Gold Zone
- (8) No. 1,2,3 and Campsite Gold Zones
- (9) Lake Structure Discovery Hole (1984)

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 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 orthogonal 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: 200 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: 4 kilometers
- g) Channel 1 (LINE): NSS Annapolis, 21.4 kHz
- h) Channel 2 (ORTHO): NLK Seattle, 24.8 kHz
- i) Line km over total survey area: 650 ✓
- j) Line km over claim groups: 475 ✓



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.



TERRAQUEST

DTE 09 01 85 TH 12 28 20: BY: M.M.
ACFT C-FAKK PH 8437 FLTH 051

PRG.VER. 220124-GRAD.
SURALT 1000

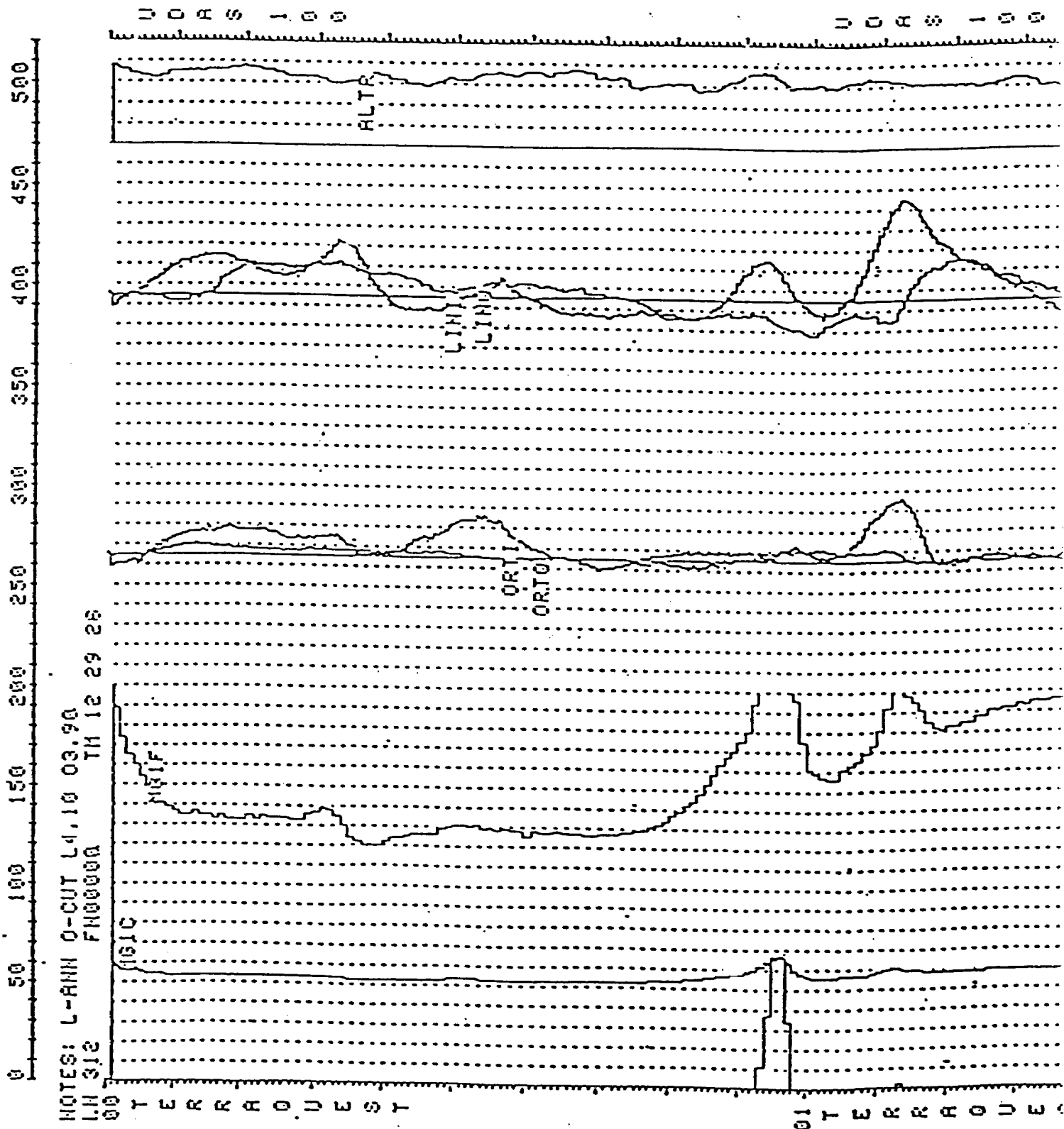


FIGURE 3. SAMPLE OF ANALOGUE DATA

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.

6.2 Interpretation

The total magnetic field data map has a relief of approximately 1900 gammas forming a major north-south gradient across 20 kilometres.

All the sedimentary stratigraphic units as mapped geologically do not appear to possess a significant magnetic response, therefore the magnetic mapping can only include the Nipissing Diabase geological unit and basement rocks.

The narrow highly magnetic trends on the vertical gradient magnetic map are indicated as unit 4 on the interpretation map and represent the magnetic phases of the Nipissing Diabase geological unit. Three dike systems trend approximately 130 degrees across the centre of the map area. Immediately to the north, numerous systems trend approximately 145 degrees and appear to originate from a large body of the magnetic phase of the Nipissing Diabase unit underlying the sediments to the north.

The southern portion of the survey area possesses north trending, weaker-magnetic units which may be either weaker phases of the Nipissing Diabase Unit or magnetic units within the basement rocks.

The magnetically background areas have been assigned to unit 3 and represent weakly magnetic basement rocks and very weakly magnetic phases of the Nipissing Diabase unit. The latter may have important economical significance whether these areas are related to genetically weakly magnetic intrusives that are different from unit 4, or possibly to alteration zones that are characterized by magnetic depletion. In either case they may represent an ideal host for gold mineralization.

The dominant northwest trending regional faulting is at a low angle to the magnetic units and therefore is not readily apparent by magnetic mapping techniques. Despite this hinderance a few northwest trending faults are identified in the centre of the map area. Numerous northeast to east trending faults create minor displacements of the magnetic units.

The VLF-EM technique generally responds to all significant conductors whether they be located in the sedimentary rocks, intrusives or overburden. Broad VLF-EM conductor zones coincident with most of the lakes indicate the presence of conductive clayey infill. There are several instances where landward extensions of these conductors axes do not appear to be related to obvious overburden effects. The conductor axis at the St. Thomas showing exemplifies this aspect. The large continuous dike trending across the area is coincident with a strong VLF-EM conductor axis and may represent

conductive gouge material or sulphides. All conductor axes parallel to magnetic units, and those that are displaced by or terminated against faults have potential for graphite or sulphide mineralization and should be investigated by IP or ground EM.

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.

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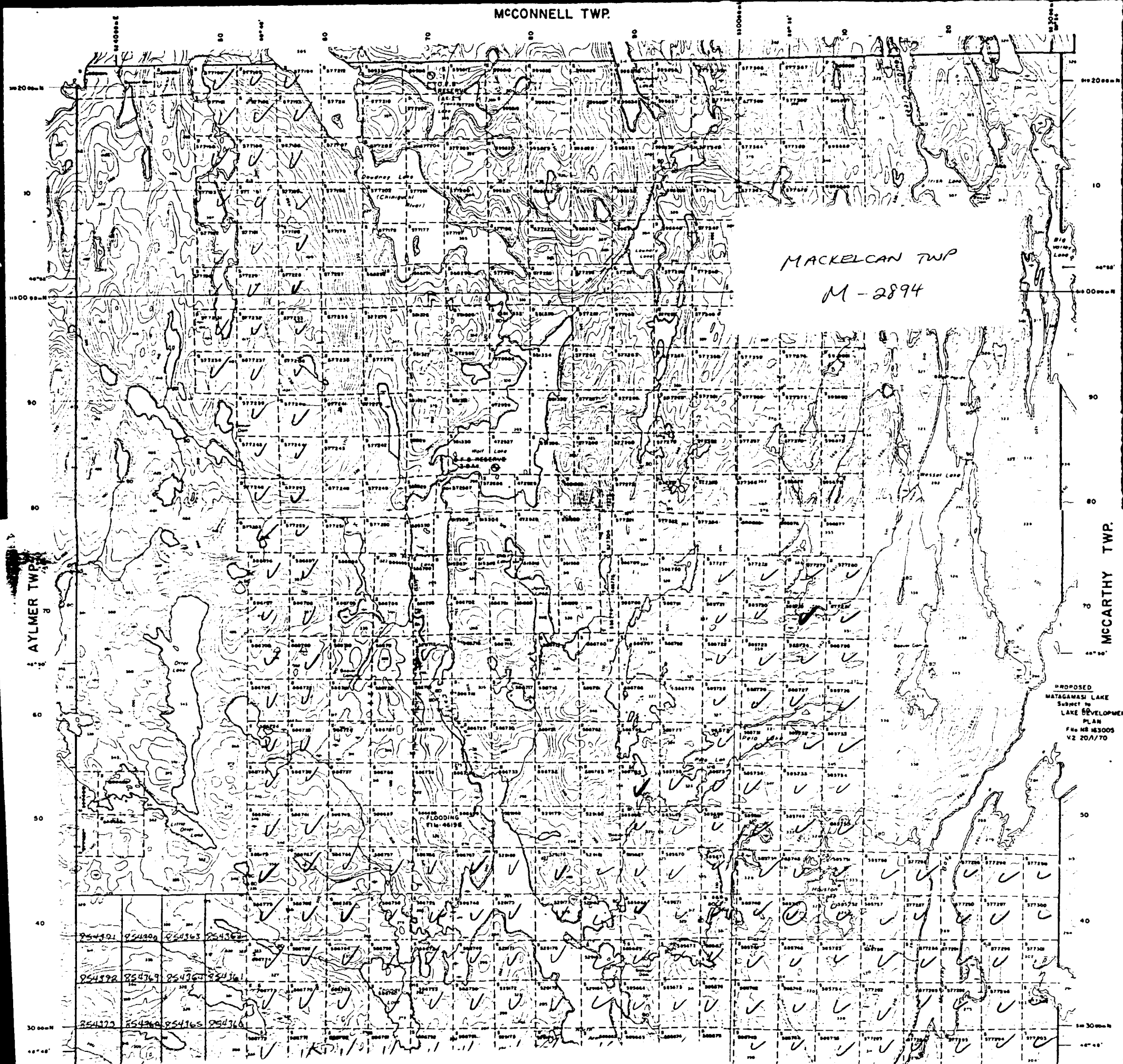


Charles Q. Barrie, M.Sc.
Geologist



MCCONNELL TWP.

MACKELCAN TWP
M-2894



PROPOSED
MATAGAMISH LAKE
Subject to
LAKE DEVELOPMENT
PLAN
FILE NO. 163005
V2 20/1/70

Scale 1:50,000
North 49° 50' 00" W
Easting 1000000
Northing 5000000



5. All conductor axes parallel to
splaced by or terminated against
sulphide mineralization and
EM.

vey has been done on the survey
ly 1.6 km. per mineral claim. The
and update the existing geology
s and faults. A number of VLF-EM
me are believed to be have
en recommended for additional

254301 254302 254303 254304
254305 254306 254307 254308
254309 254310 254311 254312

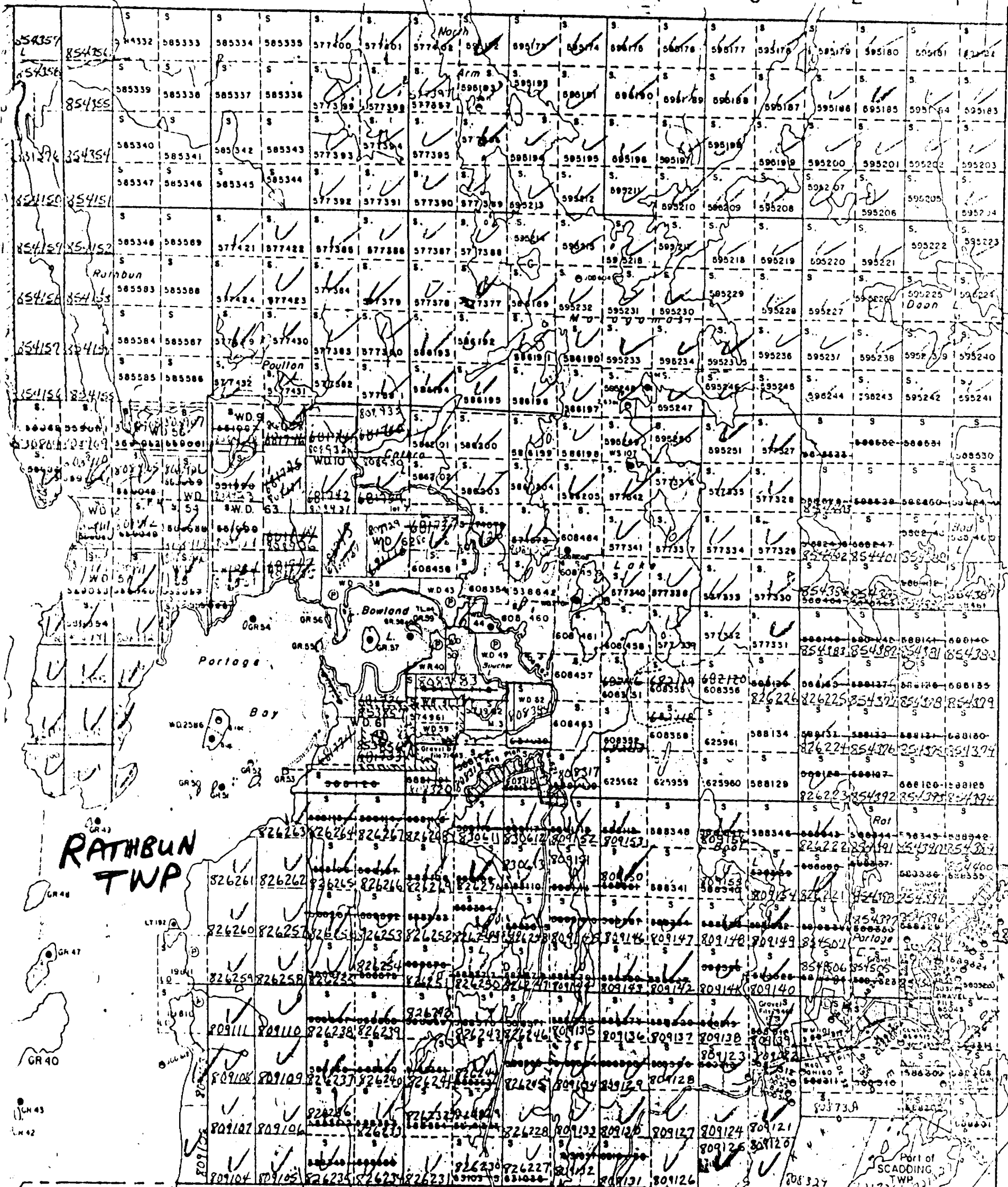
MACKELCAN TWP. M.840

0.4/85 (Northeastern Region) S.R. & M.R.

0.5/85 (Northeastern Region) S.R. & M.R.

0.1/85 (Northeastern Region) S.R. & M.R.

10 9 8 7 6 5 4 3 2 1



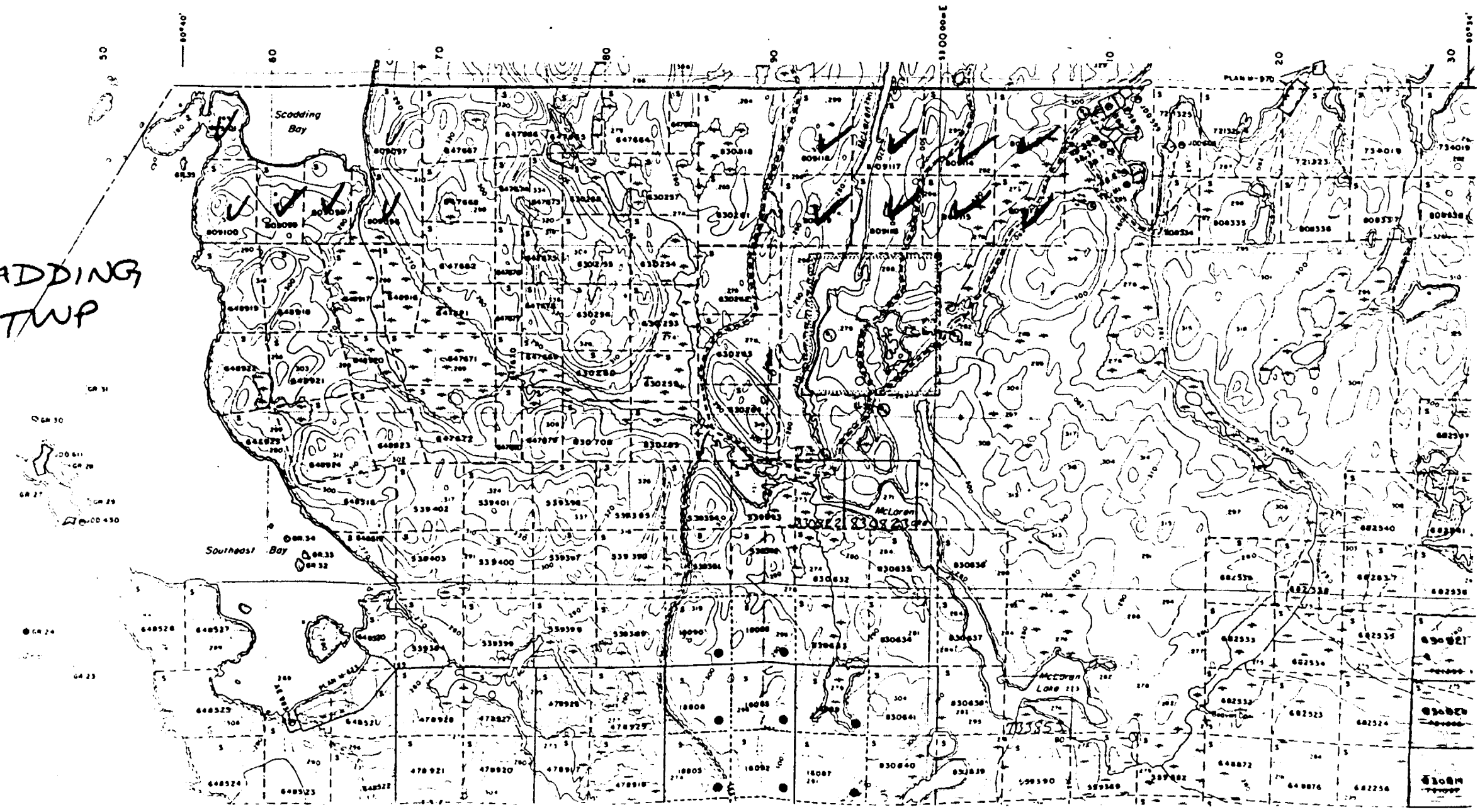
RATHBUN TWP

SCADDING TWP. M.1092

46° 42' 46" 33' 54" approx

RATHBUN TWP

SCADDING TWP





41115NE0019 0026 MACKELCAN

900

Mining Lands Section

File No 28580

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

-airborne

< Mackelcan, Rathburn, Scabbling >

*L.D.
Lgd.*

Signature of Assessor

Date



Recorded Holder
ALBERT E. JEROME, JR.

Township or Area
RATHBUN & SCADDING TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ <u>20</u> _____ days Magnetometer _____ <u>20</u> _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>S 808905 to 14 inclusive</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of
Northwest
Affairs
and
Mines
Ontario

Technical Assessment
Work Credits

File
2.8580

Date
1985 12-13

Mining Recorder's Report of
Work No. 85-59, 85-67

Recorded Holder
ALBERT E. JEROME JR.

Township or Area
MACLENNAN, RATHBUN & SCADDING TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	S 808922 to 26 inclusive
Electromagnetic _____ 20 _____ days	808928 to 41 inclusive
Magnetometer _____ 20 _____ days	808989 to 9002 inclusive
Radiometric _____ days	809096 to 156 inclusive
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input checked="" type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>
<input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
EDWARD JEROME

Township or Area
RATHBUN & SCADDING TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>20</u> day. Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column: Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	S 826221 to 70 inclusive 830611 to 13 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

785-53

File S-808905

Aug 2



Ministry of Natural Resources

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.

Mining Act

Form header section containing: Type of Survey(s) AIRBORNE MAG/VLF; Claim Holder(s) ALBERT E. JEROME, JR.; Address 695 EMILY ST., Box 491, HANMER, ONT. P.O. Box 140; Survey Company TERRAQUEST LTD; Date of Survey (from & to) 03 06 85; Total Miles of line Cut; Name and Address of Author (of Geo-Technical report); Mining Area (N-1091) KATHBUN and (N-1093) SCADDING; Prospector's Licence No. C 34458

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Table with 3 columns: Special Provisions, Geophysical, Days per Claim. Rows include: For first survey: Enter 40 days (This includes line cutting); For each additional survey using the same grid: Enter 20 days (for each); Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys; Days per Claim: 40

Table with 4 columns: Mining Claim Prefix, Mining Claim Number, Expend. Days Cr., Mining Claim Prefix, Mining Claim Number, Expend. Days Cr. Contains list of claim numbers 808905 through 808914. Includes a 'RECEIVED' stamp dated JUL 10 1985 and 'MINING LAWS SECTION'.

Expenditures (excludes power stripping) section with a calculation box: 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: JUNE 28/85; Recorder/Holder/Agent (Signature): Albert Jerome

For Office Use Only section: Total Days Cr. Recorded: 400; Date Recorded: July 2/85; Mining Recorder: V.C. Miller; Branch Director: [Signature]

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: ALBERT E. JEROME, Box 491, HANMER ONT. P.O. Box 140; Date Certified: JUNE 28/85; Certified by (Signature): Albert Jerome



Ministry of Natural Resources
 Report of Work
 (Geophysical, Geological, Geochemical and Expenditures)

File 5-808922
 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.

Mining Act

Type of Survey(s) Airborne Township of Shackleton (Calloway) Leckie
 Claim Holder(s) Albert Gromeyr Prospector Licence No. C34458
 Address 695 Emily Street, Box 491, Hamner, Ontario P0M 1H0
 Survey Company Ferraguet Ltd Date of Survey (from & to) 3 6 85 to 9 6 85 Total Miles of line Cut
 Name and Address of Author (of Geo Technical report) 905, 121 Richmond St. W., Toronto M5H 2K1

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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
Electromagnetic		
Magnetometer		
Radiometric		
Other		
Geological		
Geochemical		

Airborne Credits	Days per Claim
Electromagnetic	40
Magnetometer	40
Radiometric	

Prefix	Mining Claim Number	Expend. Days Cr.
L	808922	80
"	" 923	80
"	" 924	80
"	" 925	80
"	" 926	80
"	" 927	80
"	" 928	80
"	" 929	80
"	" 930	80
"	" 931	80
"	" 932	80
"	" 933	80
"	" 934	80
"	" 935	80
"	" 936	80
"	" 937	80
"	" 938	80
"	" 939	80
"	" 940	80
"	" 941	80
		20
		19

Prefix	Mining Claim Number	Expend. Days Cr.
L	808989	80
"	" 990	80
"	" 991	80
"	" 992	80
"	" 993	80
"	" 994	80
"	" 995	80
"	" 996	80
"	" 997	80
"	" 998	80
"	" 999	80
"	809000	80
"	809001	80
"	809002	80

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.

Total number of mining claims covered by this report of work. 33

For Office Use Only

Total Days Cr. Recorded 2640 Date Recorded July 12 1985 Mining Recorder Shiand

Date Approved as Recorded July 12 1985 Branch Director

Date July 3 1985 Recorder/Holder of Agent (Signature) McLeod

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 McLeod C. Reed - 1250-550-5th Ave. S.W. Calgary, Alberta, T2P 0S2

Date Certified July 3 1985 Certified by (Signature) McLeod C. Reed

#85-67

Ps 1 of 2

FILE S-809096
Sept 17



Ministry of
Natural
Resources

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

Mining Act

Type of Survey(s): Airborne Township or Area: (M-1071) (M-1092)

Claim Holder(s): Albert E. Jerome Rather, Leading Prospector Licence No: C34458

Address: 695 Emily Street, Box 491, Hamner, Ontario K0M1Y0

Survey Company: Terraguest Ltd. Date of Survey (From & To): 3 6 85 4 6 85 Total Miles of line Cu: _____

Name and Address of Auditor (for Geo Technical report): 905, 121 Richards St. W. Toronto, M5H 2K1

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
S	809096	80	S	809120	80
	809097	80	809121		80
	809098	80	809122		80
	809099	80	809123		80
	809100	80	809124		80
	809112	80	809125		80
	809113	80	809126		80
	809114	80	809127		80
	809115	80	809128		80
	809116	80	809129		80
	809117	80	809130		80
	809118	80	809131		80
	809119	80	809132		80
	809102	80	809133		80
	809103	80	809134		80
	809104	80	809135		80
	809105	80	809136		80
	809106	80	809137		80
	809107	80	809138		80
	809108	80	809139		80
	809109	80	809140		80
	809110	80	809141		80
	809111	80	809142		80

SUBSIDIARY MINING DIV.
RECEIVED
JUL 29 1985
A.M.
1 2 3 4 5 6 7 8 9 10 11 12

See revised statement
Total number of mining claims covered by this report of work: 45
(cont'd) 6/4

Expenditures (excludes power stripping)

Type of Work Performed: _____

Performed on Claims: _____

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.

For Office Use Only

Date Recorded: July 29/85 Mining Recorder: [Signature]

Date Approved as Reported: [Signature] Branch Director

Date: July 24 1985 Report Made by: [Signature]

Certification on 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: 1250-550 Colan. St., Copsey, Alta T2P 0S2

Date Certified: July 24 1985 Certified by (Signature): [Signature]



Ministry of Natural Resources

#85-92

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

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.

File S-826224

Type of Survey(s) **AIRBORNE** Township or Area **CM-107 (7M-1092)**

Claim Holder(s) **EDWARD JEROME SUB-1396** **RATHBUN & SCADDING** Inspector's Licence No **C32301**

Address **207 APOLLO TERRACE, SUDBURY, ONTARIO P2A 5B3**

Survey Company **TERRALYST LIMITED** Date of Survey (from & to) **3/6/85 to 5/85** Total Miles of line Cut

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	
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	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
S	826221-26	incl			
	826227-36	incl			
	826237-70	incl			
	83064-13	incl			
	59480	4240			

RECEIVED
SEP 19 1985
SUDBURY MINING DIV.
MINING DIVISION

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 **Sept 12/85** Recorded Holder or Agent (Signature) **[Signature]**

For Office Use Only

Total Days Cr. Recorded **4240** Date Recorded **Sept. 20/85** Mining Recorder **V.C. Miller**

Date Approved or Recorded **Sept 20/85** Branch Director

Total number of mining claims covered by this report of work. **58**

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 **Clay Resources (1985) Limited 1250-550-6th Ave S.E. Calgary, Alta T2A 0S2**

Date Certified **Sept 20/85** Certified by (Signature) **[Signature]**

Schedule "A"

Total Work Credits

\$577180-85 incl (6)-	38 days/claim	228
\$577228-33 incl (6)-	38 " " " "	228
\$577244-47 incl (4)-	38 " " " "	152
\$577282-303 incl (22)-	38 " " " "	836
\$577377-402 incl (26)-	38 " " " "	988
\$577429-32 incl (4)-	38 " " " "	152
\$595172-251 incl (80)-	38 " " " "	3040
\$577188-96 incl (9)-	38 " " " "	342
\$577236-40 incl (5)-	38 " " " "	190
\$577252-53 incl (2)-	38 " " " "	.76
\$577327-42 incl (16)-	38 " " " "	608
\$577421-24 incl (4)-	38 " " " "	152
\$586189-205 incl (17)-	38 " " " "	646
\$529159-78 incl (10)-	38 " " " "	380
\$577277-81 incl (5)-	38 " " " "	190
\$585662-81 incl (20)-	38 " " " "	760
\$586896-97 incl (2)-	38 " " " "	76
\$586722-25 incl (4)-	38 " " " "	152
\$586747-75 incl (29)-	38 " " " "	1102
\$529181-84 incl (4)-	38 " " " "	152
\$585779 (1)-	38 " " " "	38
\$585719-58 incl (40)-	38 " " " "	1520
\$586706-09 incl (4)-	38 " " " "	152
\$586778-41 incl (4)-	38 " " " "	152
\$586784- (1)-	38 " " " "	38
\$577356-76 incl (21)-	38 " " " "	798
\$585772-48 incl (17)-	38 " " " "	646
\$585587-87 incl (9)-	38 " " " "	266
\$595875-88 incl (14)-	38 " " " "	532
		<u>14,592</u>
388 claims		
325		



Ministry of
Natural
Resources

Order of
the Minister

Oct. 30th
Room 6643, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3
416/965-4888

The Mining Act

In the matter of mining claims:

S 808905, et al, in Township of
Rathburn, Scadding and Mackelcan
as listed on Reports of Work #53, 59 & 67.

On consideration of an application from the recorded holder, Albert E. Jerome Jr.
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) Survey work recorded on July 2, 12 & 29 19 85
be extended until and including October 30, 19 85.

85-08-21

Date

Signature of Director, Land Management Branch

Copies:

Albert E. Jerome Jr.
695 Emily Street
Box 491
Hanmer, Ontario
POM 1Y0

Flag Resources Limited
Suite 1250
550 - 6th Avenue S.W.
Calgary, Alberta
T2P 0S2

133
Terraquest Ltd
Suite 905
121 Richmond Street West
Toronto, Ontario
M5H 2K1

Mining Recorder
Sudbury, Ontario

R

REGISTERED

August 21, 1985

Report of Work #53

Albert E. Jerome Jr.
695 Emily Street
Box 491
Hannmer, Ontario
POM 1Y0

Dear Sir:

RE: Mining Claims S 808905, et al,
in Rathburn & Scadding Townships

I have not received the reports and maps (in duplicate) for the Geophysical Airborne (Magnetometer) Survey on the Above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on July 2, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on August 31, 1985.

If the material is not submitted to this office by August 31, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

A. Barr:mc

cc: Mining Recorder
Sudbury, Ontario
Encl.

FLAG RESOURCES LIMITED

SUITE 1250, 550 - 6TH AVENUE S.W.

CALGARY, ALBERTA, CANADA

T2P 0S2

TELEPHONE (403) 262-8883 TELEEX 03-825-684 FLG. RES.

Aug 22/85

M. R. J. Pichette,
Administrator Mining Land Management,
Land Mining Branch, Ministry of Natural Resources,
Room 5610 Whiteoak Block,
Osgoode Park, Toronto, Ontario.
M7H1W3

Dear Sir:

Application is hereby made by Flag Resources
(1985) Limited, for a 60 day extension, from Sept 6/85, to
file a work report on an E.M and Magnetic survey,
completed by Terraguest Ltd, on the following 104
mining claims:

L 808905-14 (10)	L 809096-101 (6)
L 808922-26 (5)	L 809112-19 (8)
L 808928-41 (13)	L 809102-11 (10)
L 808989-002 (14)	L 809120-56 (37)
<u>43</u>	<u>61</u>

The claims are located in Rathfron Township,
as shown on the enclosed map. We have also
enclosed a copy of our contract with Terraguest
Ltd.

Yours truly,
Murdo MacLeod
President.

The following specifications set out the detail of work to be carried out by Terraquest Limited (Contractor) 1214-111 Richmond St. West, Toronto, Ontario M5H 2G4 for Flag Resources Ltd., 1250 - 550 6th Ave. S.W., Calgary, Alta. T2P 0S2 (Client).

1. GENERAL

The Contractor hereby undertakes on the terms and conditions hereinafter contained, to use its best efforts to perform for the Client an airborne geophysical survey (hereinafter referred to as the "Survey").

2. SERVICES

The services to be provided by the Contractor in connection with the Survey shall include the preparation of mosaics and other data prior to flying, the flying itself and all supervision thereof and the preparation and delivery to the Client of the documents specified in Section 13 of this agreement.

3. SURVEY AREA

The Survey area will entail approximately 650 line km of combined airborne magnetic and electromagnetic surveying the Rathburn-Scadding Twp. Claim Group, in the Province of Ontario as outlined in Figure 1.

4. TIMING

The Survey shall commence about *May 1 to May 31* ~~mid-April to early-May~~ and completed as soon as environmental conditions and serviceability of equipment permits.

Final drafted E.M. and magnetic maps will be completed and delivered to the Client within 8 weeks of completion of survey flying.

5. EQUIPMENT

The survey instruments to be provided by Contractor for the purpose of the Survey are:

- a) A Herz Totem 2A dual frequency V.L.F. electromagnetic system installed in a pod assembly attached to a Cessna 182 fixed wing aircraft.
- b) GEM Systems GSM-8BA proton precession airborne magnetometer.
- c) Urtec UDAS 100 data acquisition system with chart recorder for analogue data presentation and 9-track tape recorder for digital data storage.
- d) Geotech Datacam Video flight path camera with intervalometer and fiducial marking system.
- e) Radar Altimeter and other necessary navigational and radio communication equipment.
- f) GEM Systems GSM-8BA proton precession base station magnetometer with analogue chart recorder.

g) All consumables (chart paper and magnetic video cassettes).

6. PERSONNEL

The contractor will supply experienced personnel to execute the Survey, viz: operator/navigator, pilot and dataman and such personnel as necessary to subsequently reduce, compile and report on the data.

7. DATA RECORDING

During the course of the Survey the following data are to be recorded:

a) Digital

i) The V.L.F. E.M. data, magnetic data, fiducial records, altimeter readings and time will be recorded digitally.

b) Analogue

- i) The V.L.F. total field and vertical quadrature component.
- ii) Total magnetic field strength recorded, at one second intervals, at two different scales (nominally, 200 and 2000 nT full scale).
- iii) A record of terrain clearance as provided by the radar altimeter.
- iv) A video tape record of the terrain passing below the aircraft as obtained by the Datacam tracking camera.
- v) Time markers impressed synchronously on the video tape and analogue records.

8. ACCEPTABLE DATA AND SURVEY PROCEDURES

Acceptable survey data and procedures will adhere to the specifications set out below and subsequently in sections 9, 10 and 11.

- a) Survey flights will be discontinued when persistently unacceptable data are obtained on 3 consecutive lines.
- b) Reflights will be performed over those portions of lines where specified criteria are not met.

9. FLYING SPECIFICATIONS

It is Contractor's responsibility to ensure that the aircraft crew strives to maintain the following specifications. However, pilot's decision as to safe operating conditions will be binding and reflights need not be undertaken where such conditions produce unacceptable data.

- a) The Survey flight direction will be North-South.
- b) Survey flight lines will
 - i) be spaced at 200 metre intervals
 - ii) not deviate from the intended flight path so as to form a gap larger than twice the line spacing for 1 km or more.

- c) Magnetic tie lines will be flown perpendicular to the survey lines at 4 km intervals, preferably where local magnetic relief is subdued.
- d) The aircraft will fly at an airspeed of 156 km/hr or less.
- e) Aircraft terrain clearance will be smoothly maintained at 100 metres or less and will not exceed 125 metres over a distance of 1 kilometre.
- f) Navigation will be done visually on photo mosaics of the survey area.
- g) The survey crew will be grounded during periods when diurnal activity exceeds 20nT over 2 minute period.

10. CALIBRATION OF SURVEY INSTRUMENTS

The altimeter will be calibrated periodically during the survey. The E.M. base level will be established at a high altitude prior to each flight.

11. DATA QUALITY

- a) The V.L.F. data will exhibit persistent peak-to-peak electronic noise of less than 4% at a time constant of 1 second. Sporadic noise bursts from atmospheric disturbances will be not more than 1 per kilometre.
- b) Peak-to-peak noise on the magnetic record will be less than 3nT.
- c) The altitude of the aircraft, over flat terrain, will be recorded with an accuracy of plus/minus 10%.
- d) The output of the base station magnetometer will be recorded at a time rate and amplitude scale sufficient to define short term magnetic disturbances (nominally, 2 second intervals and analogue chart scale of 1 cm = 10nT).
- e) All analogue data will be legibly recorded. Flight path video will display useable clarity. Fiducial correlations will be maintained.
- f) Magnetic levelling to correct for diurnal variation will be carried out in the standard manner utilizing the tie line intersections with the traverse lines.

12. DATA RECOVERY AND ACCESS

- a) A flight path map, based on the navigator's manual fiducials and verified by the flight path video tape will be completed as the survey progresses.
- b) The Client shall maintain the option to inspect the data in the field and select alternative specifications at their expense, provided adequate prior notification is given to the Contractor.
- c) Digital data tapes will be shipped immediately to Toronto and tape contents listed to ensure requisite fidelity and completeness. Once it has been determined that acceptable digital records have been secured, editing and computer processing of E.M. and aeromagnetic data will be initiated.

13. DATA PRESENTATION

13.1 Specifications

- a) All maps will be at a scale of 1:20,000
- b) Base maps are comprised of photomosaics with flight lines and fiducials.

13.2 Delivery Items

- a) Analogue traces and flight logs from data acquisition system.
- b) Photomosaics showing flight path recovery.
- c) Total magnetic field contours on a greyflex base map (with 4 paper copies).
- d) Total magnetic field contours on colour Applicon plot (1 copy).
- e) Calculated vertical magnetic gradient contours on a greyflex base map (with 4 paper copies).
- f) Calculated vertical magnetic gradient contours on a colour Applicon plot (1 copy).
- g) Total field contours (2%) of VLF data with quadrature profiles drawn along flight lines on a greyflex base map (with 4 paper copies).
- h) A report (4 copies) giving equipment specifications, operational statistics, survey techniques and assessment work interpretation identifying significant conductors, structural features and geological units derived from the magnetic pattern.

14. INSURANCE AND LIABILITY

- a) Terraquest Ltd. provides either directly or indirectly insurance coverage for personnel, equipment and damages arising out of the carrying out of the Survey.
- b) Terraquest Ltd. agrees to save and keep harmless the Client from and against all damages, costs and expenses which the Client may sustain, suffer or incur by reason of any act of omission of Terraquest Ltd. in connection with the performance of the Survey.
- c) When the Survey data is to be used for assessment credit Terraquest Ltd. is not held responsible or liable for the completion and filing of the Report of Work Form for the Ministry of Natural Resources. Terraquest Ltd. is willing to assist the client in this aspect.

15. CHARGES

The Client agrees to pay the Contractor for its services described herein as follows:

- a) A total fee of \$22,750.00 for acceptable airborne survey coverage, encompassing flying, flight line recovery, compilation of E.M. and

aeromagnetic data, and drafting for the survey area. This is equivalent to a rate of \$35.00 per line kilometer of survey area.

16. PAYMENT

Payment of the above fee will be made as follows:

- a) Payable on signing of this agreement.....\$7,580.00
- b) Payable immediately upon completion of the survey flying.....\$7,580.00
- c) Upon receipt of invoice from Contractor and upon delivery of material described in Section 13 to the Client.....\$7,580.00

Exclusive title to the Survey results shall not pass until full payment has been made to the Contractor for its services rendered.

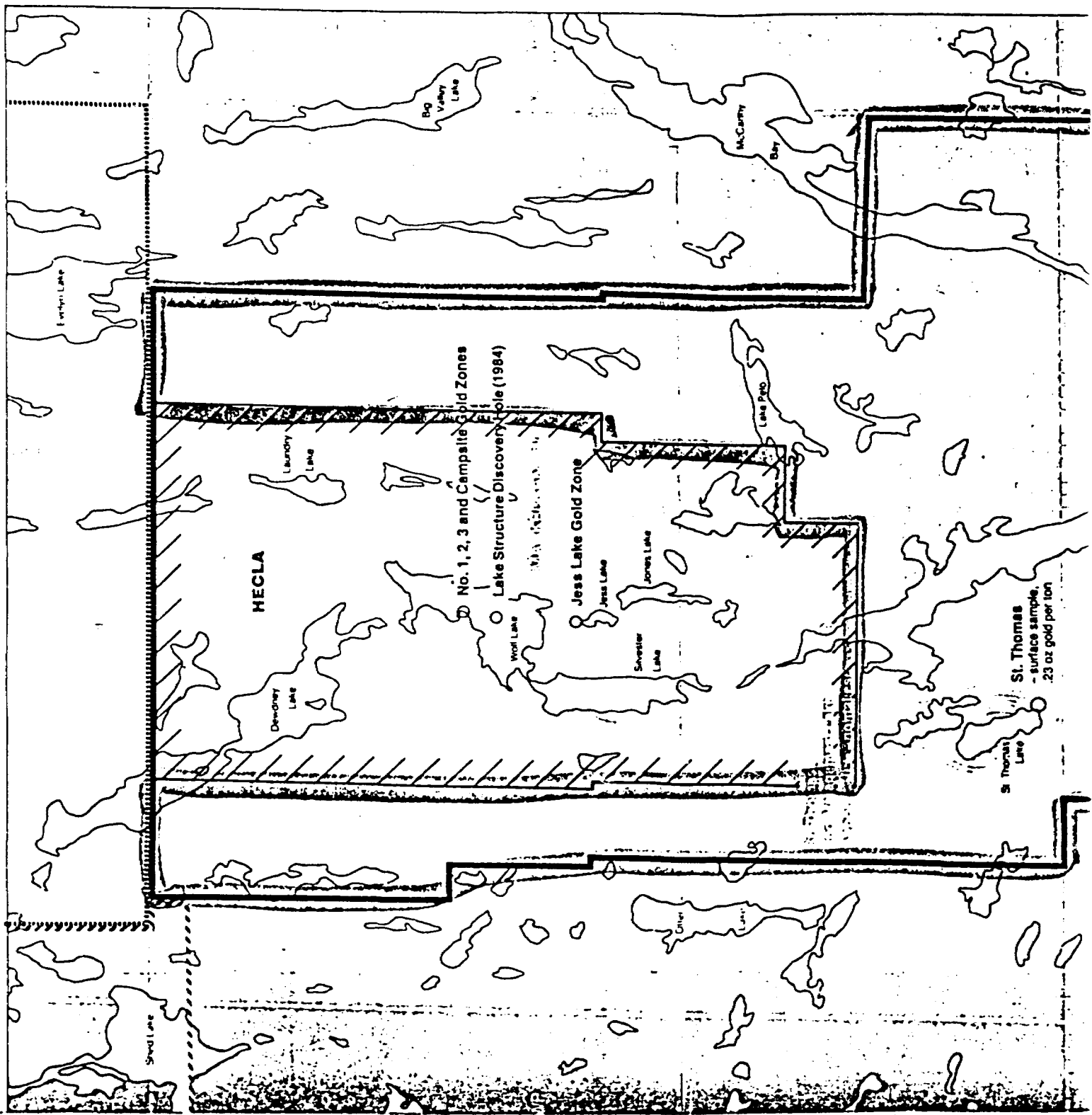
Date: Apr 1 1985

Date: Apr 2 1985

Accepted: [Signature]
Terraquest Ltd. (Contractor)

Accepted: [Signature]
Flag Resources Ltd. (Client)
(1985) Limited
1985

FLIGHT
← DIRECT



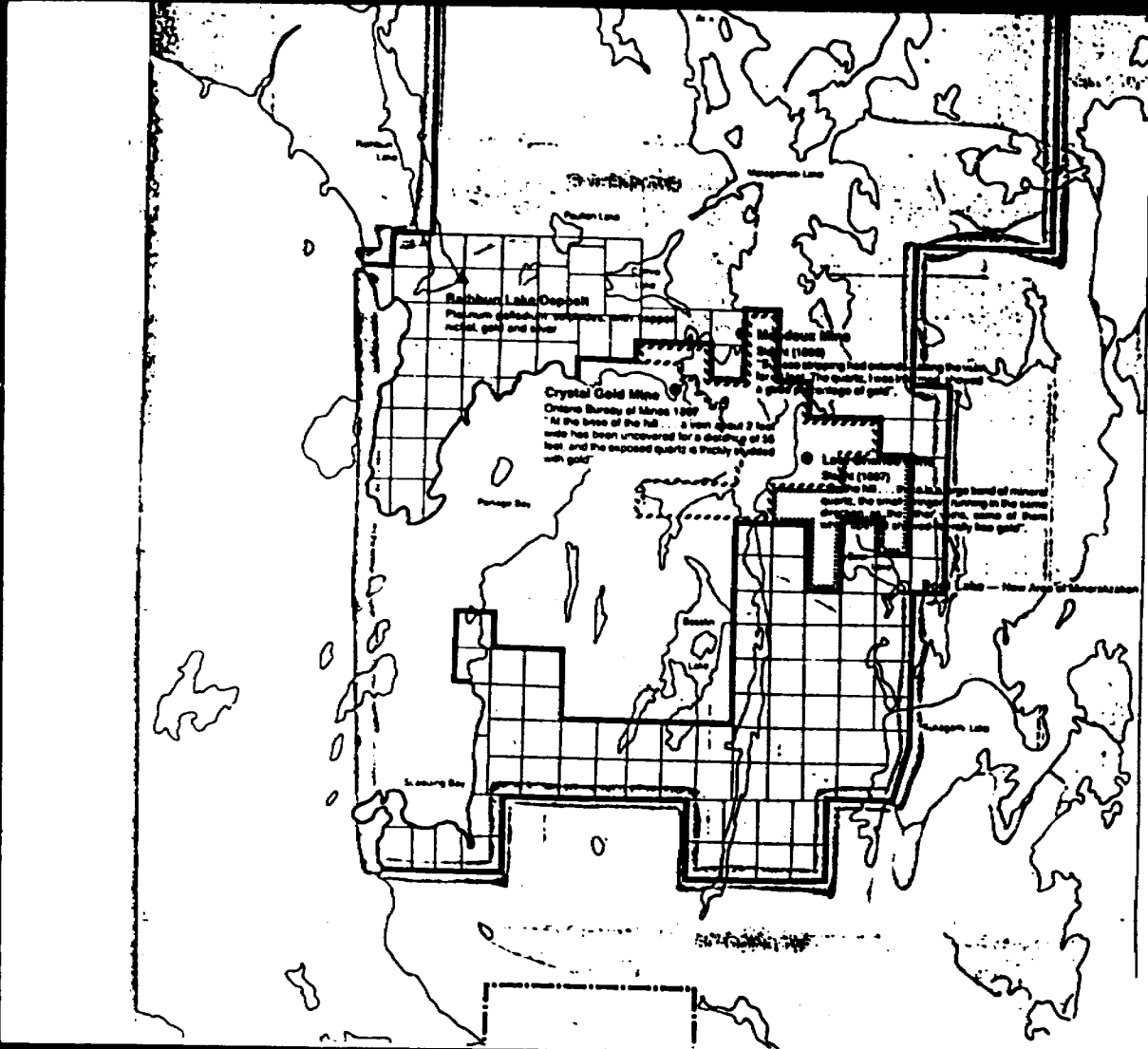


FIGURE 1
 FILE 7-5019

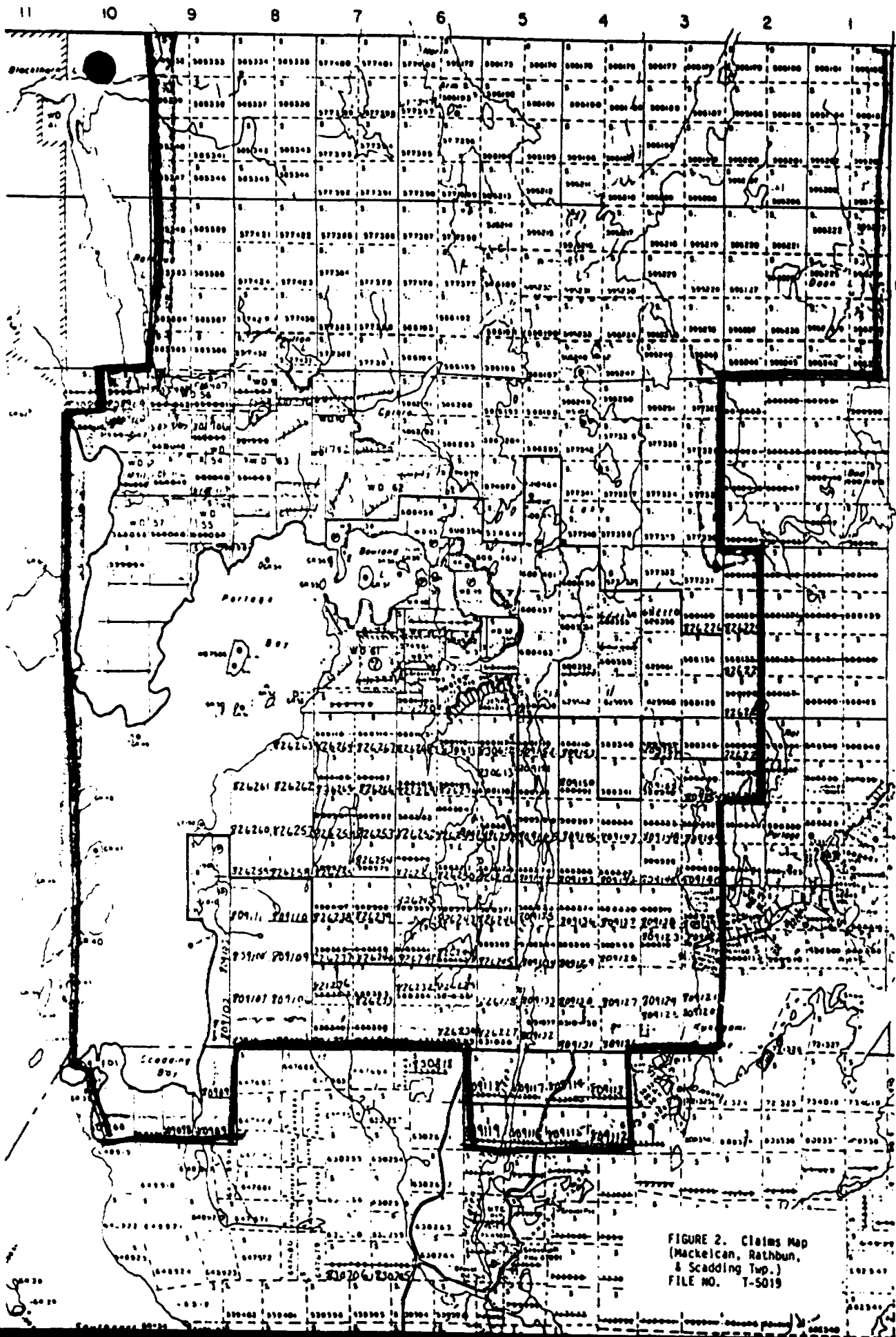


FIGURE 2. Claims Map
 (Mackelcan, Rathbun,
 & Scadding Twp.)
 FILE NO. T-5019

TERRAQUEST LTD.



2.8580

November 19, 1985

Ministry of Natural Resources,
Land Management Branch,
Whitney Block, Room 6610,
Queen's Park,
Toronto, Ontario
M7A 1W3

Attention: Mr. D.R. Kinvig, Mining Lands Section

Re: Claim amendment to Geo-technical Report, Flag Resources Ltd.
Reference: Reports of Work 85 - 53, 59, 67, 92 and 105
Sudbury Mining District

Dear Mr. Kinvig:

The total number of claims identified on the above-mentioned airborne Mag-VLF survey report was in error. The total number of claims should read 482 and the total survey mileage over these claims is 265 line miles (427 line kilometers). This is equivalent to 20 VLF days and 20 Magnetometer days per claim (total 40 days per claim).

Yours truly,

Charles Q. Barrie
Vice-president

CQV:mes

cc: Flag Resources Ltd.

TERRAQUEST LTD.



November 25, 1985

RECEIVED

NOV 28 1985

MINING LANDS SECTION

Ministry of Natural Resources,
Land Management Branch,
Whitney Block, Room 6610,
Queen's Park, Ontario.
M7A 1W3

Attention: Mr. D.R. Kinvig, Mining Lands Section

Re: Claim amendment to Geo-technical Report, Flag Resources Ltd.
Sudbury Mining District, Townships of Mackelcan, Rathbun and
Scalding

Dear Mr. Kinvig:

The following claims were surveyed and reported on during our air-borne Mag and VLF survey and should be included for assessment purposes. Due to a mix-up between Flag Resources and M.N.R., these were not filed at the Mining Recorder's office; this is currently being done by Flag Resources Ltd.

The claims to be added are

538642	(1)
577356 - 577376	(21)
585332 - 585348	(17)
585583 - 585589	(7)
595875 - 595888	(14)
TOTAL	60 claims

I trust this meets with your approval.

Yours truly,

Charles Q. Barrie,
Vice-president

Present P. of W
 $-482 \text{ claims} + \text{rolling} + \text{del} = 542 \text{ claims}$

Total mileage = 265 line miles

CQB:mes

$265 \times 40 \div 542 = 19.56 \Rightarrow \underline{\underline{20 \text{ days}}}$

cc: Flag Resources Ltd.
1250 - 550 6th Avenue, S.W.,
Calgary, Alberta.
T2P 0S2



Ministry of
Natural
Resources

Dec. 30/85

. 1985 12 13

Your File: 85-59, 85-67, 85-53, 85-92
Our File: 2.8580


Mining Recorder
Ministry of Northern Development and Mines
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, -if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,



S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

J.C. DK/mc

Encls.

cc: Albert E. Jerome, Jr.
695 Emily Street
Box 491
Hanmer, Ontario
POM 1Y0

Edward Jerome
207 Apollo Terrace
Sudbury, Ontario
P3A 3B3

Flag Resources (1985) Limited
Suite 1250
550 6th Avenue SW
Calgary, Alberta T2P 0S2

Mr. G.H. Ferguson
Mining & Lands Commissioner
toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1985 12 13

2.8580/85-59, 85-67, 85-53, 85-92

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1986 01 03

Your File:85-59, 85-67,85-53,85-92
Our File:2.8580

Mining Recorder
Ministry of Northern Development and Mines
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

RE: Notice of Intent dated December 23, 1985
Geophysical (Electromagnetic & Magnetometer)
Surveys on Mining Claims S 808905, et al,
in MacLennan, Rathbun & Scadding Townships

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

DK/mc

cc: Albert E. Jerome Jr.
Hanmer, Ontario

Edward Jerome
Sudbury, Ontario

Flag Resources (1985) Limited
Calgary, Alberta
Resident Geologist
Sudbury, Ontario

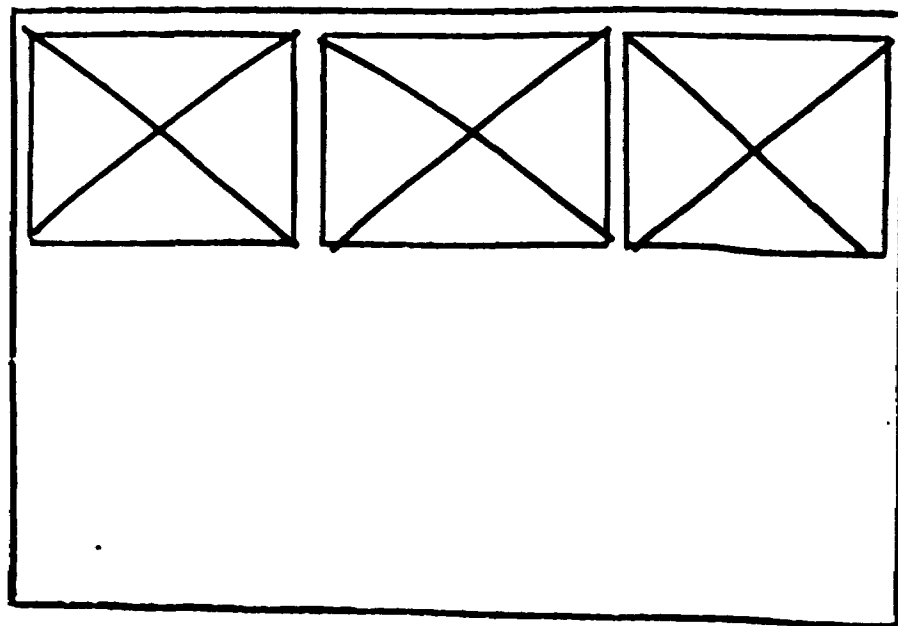
Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Encl.

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

MACKELCAN-0026 #1-3

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



FOR ADDITIONAL
INFORMATION

SEE MAPS:

MACKELCAN-0026 #4-5.

Problem Page

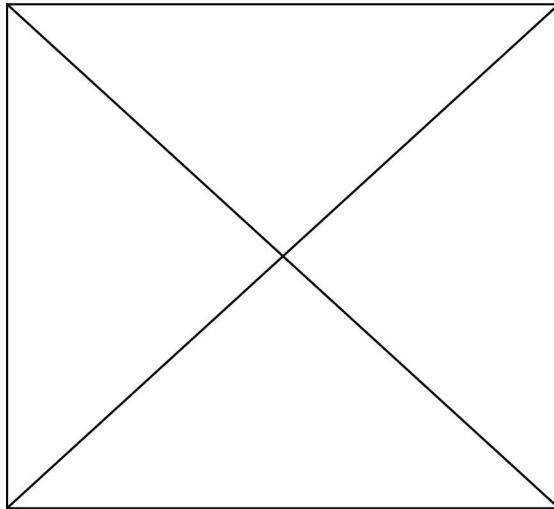
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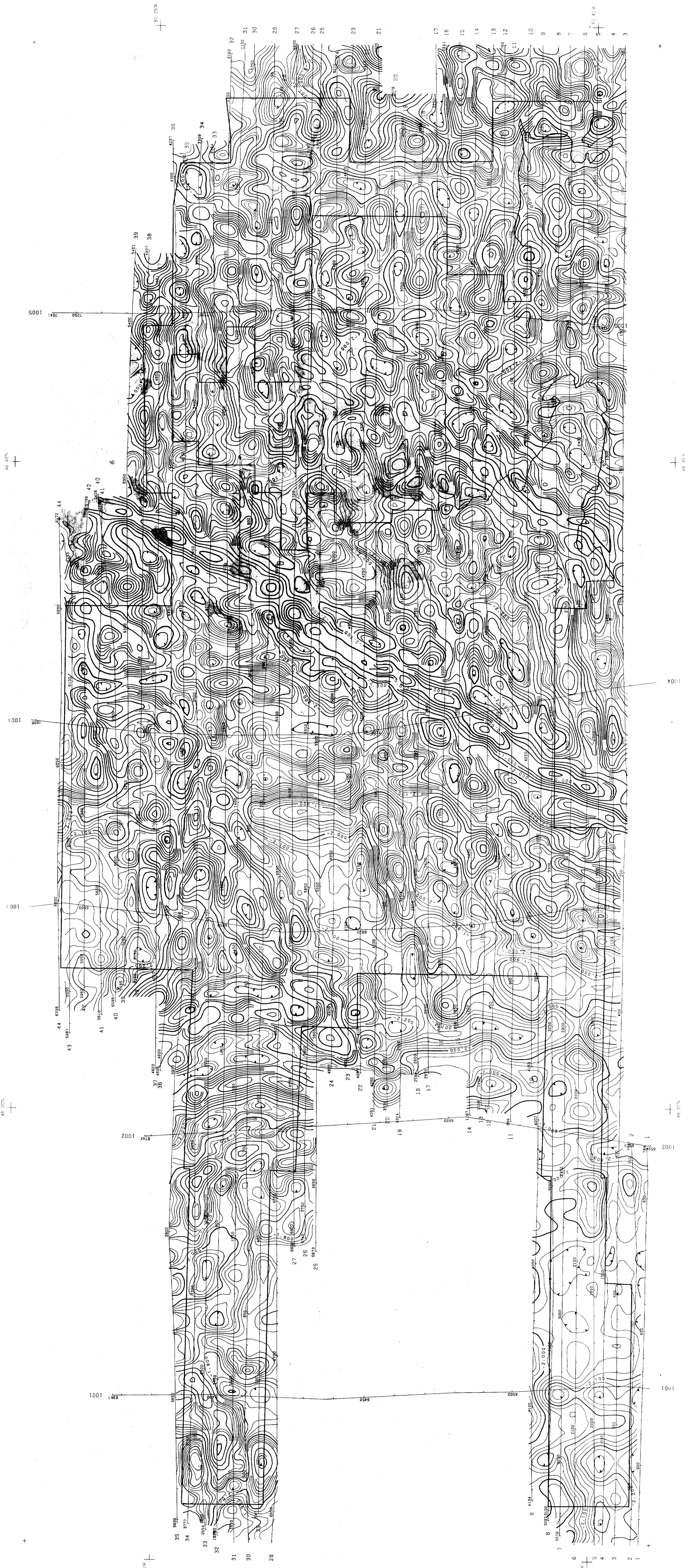
We apologize for the inconvenience.

Problème de conversion de page

Un problème est survenu au moment de balayer la page originale dans ce document. La page n'a donc pu être convertie en format PDF.

Nous regrettons tout inconvénient occasionné par ce problème.



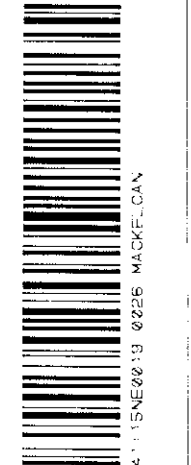


MACKELCAN-0026 #3

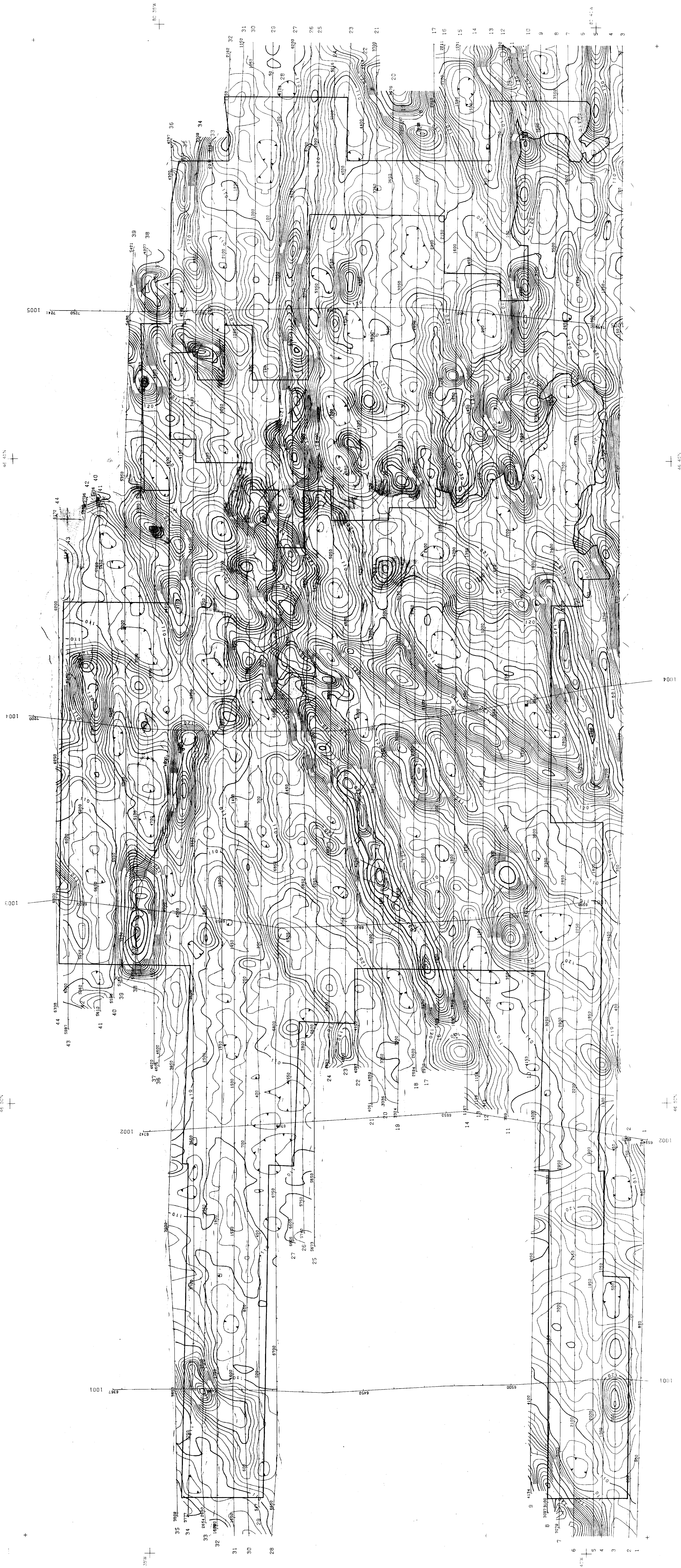
FLAG RESOURCES LTD.	
AIRBORNE MAGNETIC SURVEY VELOCITY CORRECTED TOTAL FIELD Calculated from Total Field	
WOLF LAKE GOLD PROJECT	
N.T.S. NO. 411.10.411.15	DRAWING NO. T.0019.2
SCALE 1:20,000	DATE OCT. 1985
TERRAQUEST LTD.	

LEGEND

.....	100 meters
.....	200 meters
.....	Line Spacing
.....	2,500 gamma meter
.....	1,000 gamma meter
.....	500 gamma meter



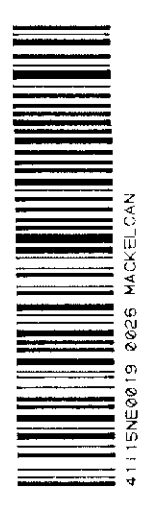
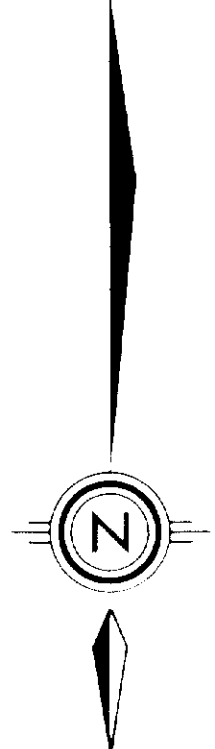
2520

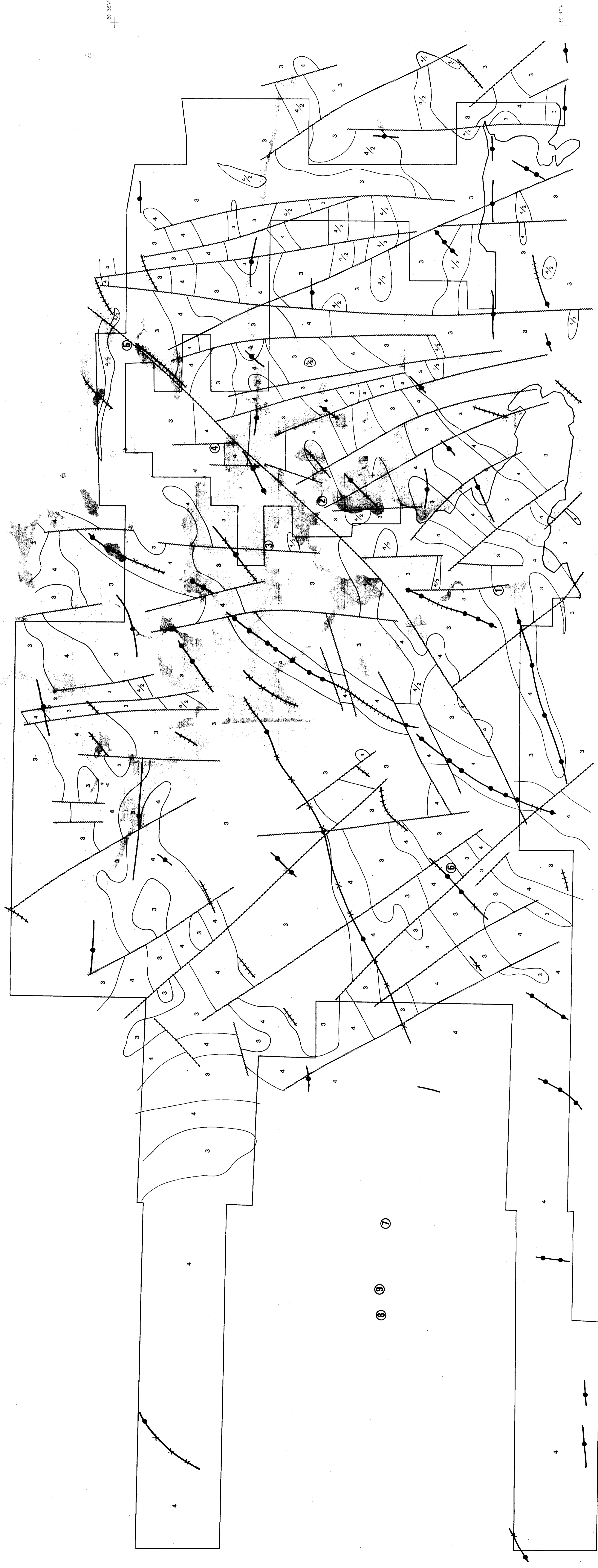


MACKENZ-CAN-0026 #4

FLAG RESOURCES LTD.	
AIRBORNE VLF-EM SURVEY CONTOURS OF TOTAL FIELD STRENGTH PROFILES OF QUADRATURE	
WOLF LAKE GOLD PROJECT	
N.T.S. NO: 41.1-10-41.1.15	DRAWING NO: T-5019-3
SCALE: 1:20,000	DATE: OCT 1985
TERRAQUEST LTD.	

LEGEND
 Terrain Contour: 100 meters, 200 meters
 Line Spacing: 50, 100, 200
 Field Strength: 50, 100, 200
 QUADRATURE



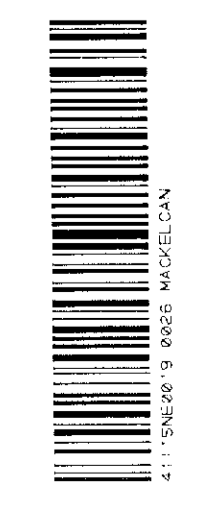


MAPSHEET CAN-00226, #5

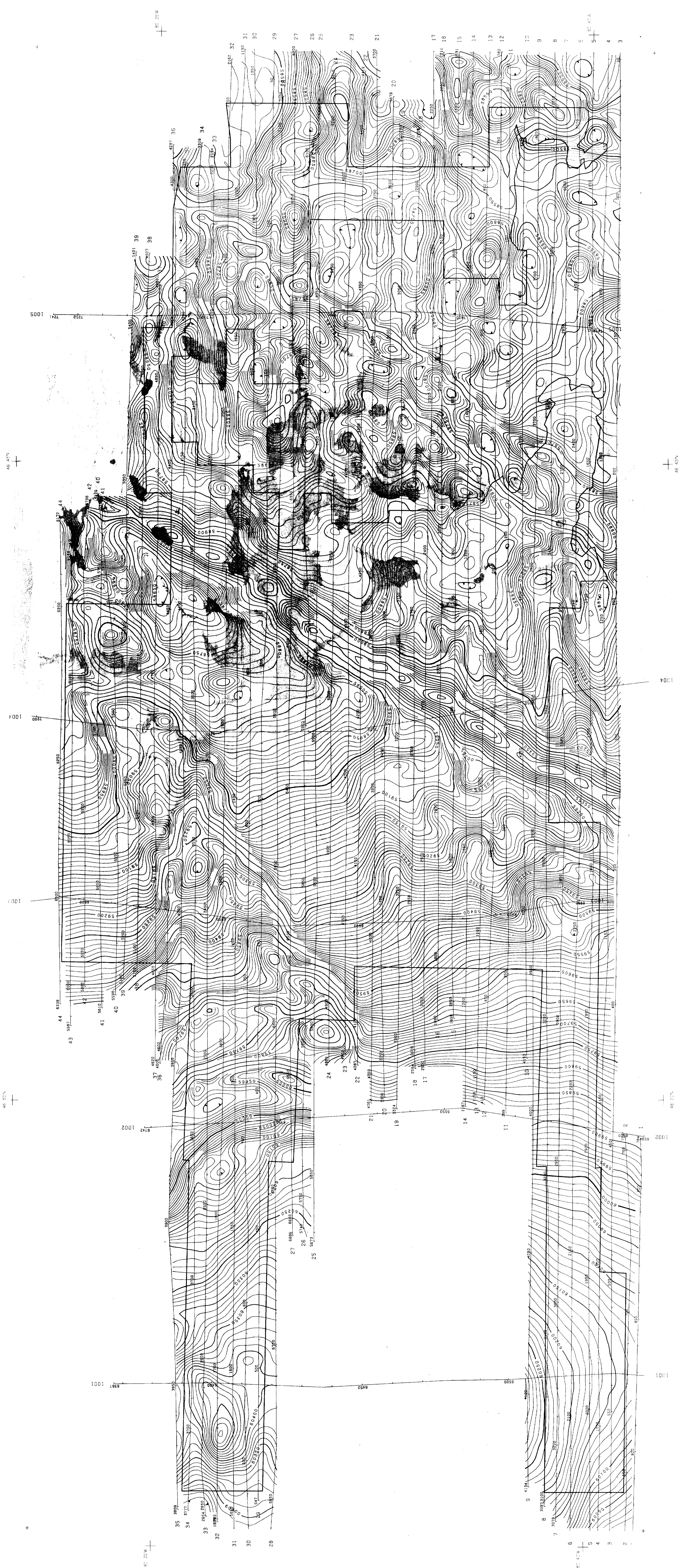
FLAG RESOURCES LTD.	
INTERPRETATION	
WOLF LAKE GOLD PROJECT	
N.T.S. NO. 41.1.10.21.1.15	DRAWING NO. T-0019.4
SCALE 1:20,000	DATE: OCT. 1985
TERRAQUEST LTD.	

LEGEND

INTERPRETATION	LITHOLOGY
--- Contact	1. Magnetic database - magnetic phases only
- - - Fault	2. Weakly magnetic rocks with unit 4 nearby
--- Property Boundary	3. Magnetic basement rocks
--- VLF-EM Conductor Axes	4. Magnetic basement rocks
--- normal subparallel	② Mineral Showings or Deposits
--- reverse quadrature	
--- in phase only (no quadrature)	
--- 100 metres	
--- 200 metres	



14-0



MACKELCAN - 0026, #2

FLAG RESOURCES LTD.	
AIRBORNE MAGNETIC SURVEY TOTAL MAGNETIC FIELD	
WOLF LAKE GOLD PROJECT	
N.T.S. NO.: 411.10.41.15	DRAWING NO.: T.0019.1
SCALE: 1:20,000	DATE: OCT. 1985
TERRAQUENT LTD. ↑	

LEGEND

Terrain Contour: 100 meters
Line Spacing: 200 meters

1000 gamma
250 gamma
50 gamma
10 gamma

