



42A08NW0047 2.11109 HISLOP

010

GEOPHYSICAL AND GEOLOGICAL SURVEY REPORT

ON

ANDY 'S CLAIMS

HISLOP TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF COCHRANE, ONTARIO

FOR

ANDY ANDERSON

RECEIVED

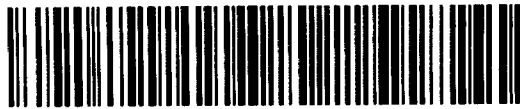
APR 28 1988

MINING LANDS SECTION

APRIL 25, 1988

MARY GREER

GEOLOGICAL TECHNICIAN



42A08NW0047 2.11109 HISLOP

010C

TABLE OF CONTENTS

SUMMARY i

INTRODUCTION 1

GENERAL GEOLOGY. 1, 2

PRESENTATIONS AND DISCUSSIONS OF RESULTS 2, 3

CONCLUSIONS AND RECOMMENDATIONS. 3, 4

BIBLIOGRAPHY 5

CERTIFICATE. 6

ILLUSTRATIONS

Claim Location Map (Figure 1a). 1 a)

Location Map (Figure 1b). 1 b)

Accompanying Plan Maps in Back Pocket

Scale: 1 inch to 200 feet

Date: March 1988

Andy's Claim

Ground VLF-EM Survey

Map No. A-88-1

Ground Magnetometer Survey

Map No. A-88-2

Geological Survey

Map No. A-88-3

SUMMARY:

This report is a Geophysical and Geological Survey, as required by the Ministry of Northern Development and Mines for assessment work purposes.

The report includes an introduction to the property, general geology, field observations and conclusions and recommendations based on the field survey.

Technical data is provided in the Appendix pink sheet found in the back of the report. Field data is compiled on the accompanying plan map found in the back of this report.

GEOPHYSICAL AND GEOLOGICAL SURVEY REPORT

ON

ANDY'S CLAIMS

HISLOP TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF COCHRANE, ONTARIO

INTRODUCTION

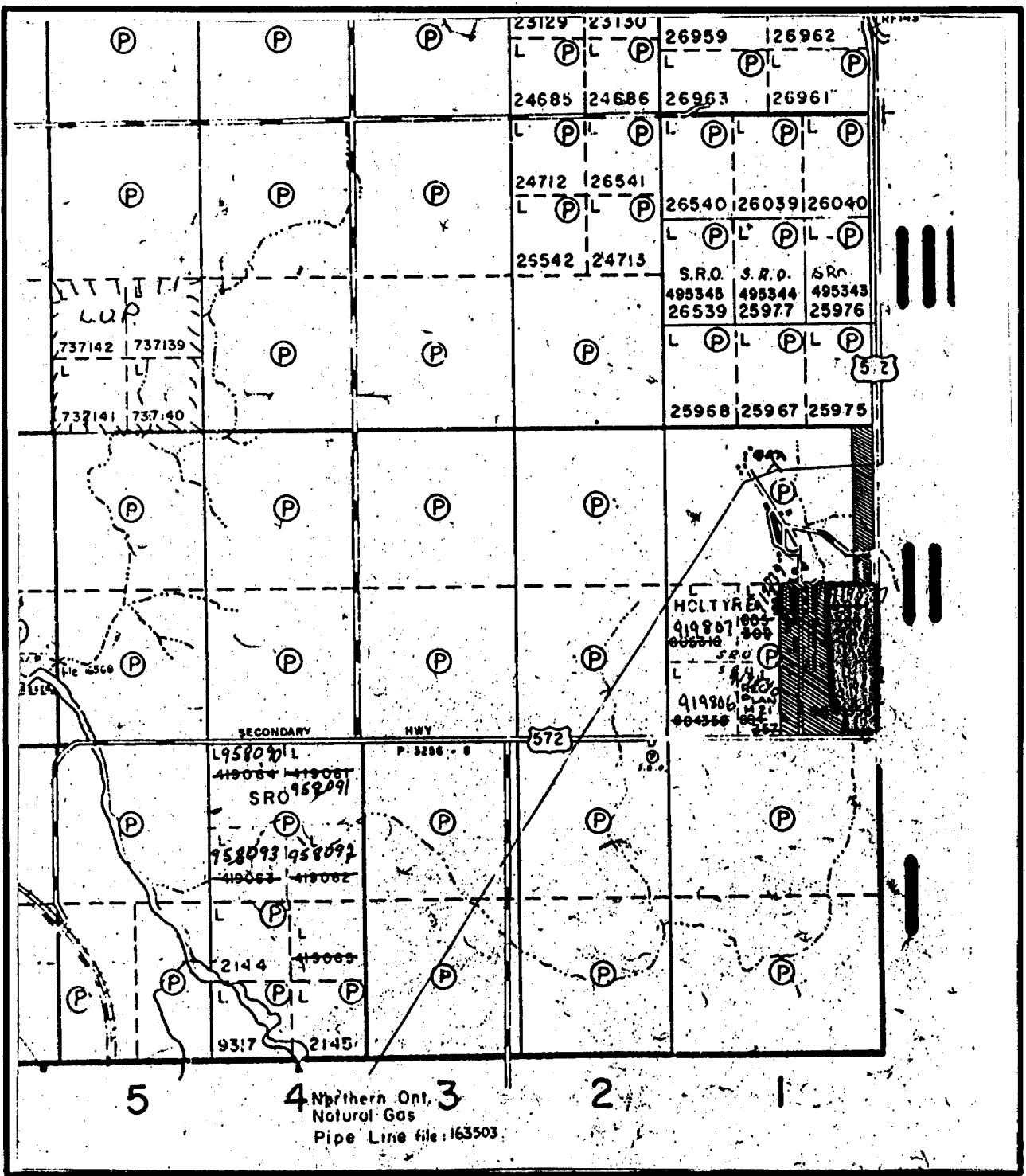
The claim group consists of two (2) contiguous unpatented mining claims located in the southeast corner of Hislop township. Access to the property is via secondary highway #572 to the town of Holtyre and the claims occur along the Hislop-Guidord township line east of the Holtyre townsite. (See Figure 1a and 1b).

Ownership of the claims has been attested to by Andy Anderson of General Delivery, Kirkland Lake, Ontario, and was not independently ascertained by the writer.

The surveys were performed on an east-west oriented grid at 400 foot line spacing by Mary Greer with Alex Perron and John Duncan assisting.

GENERAL GEOLOGY

The O.D.M. sixty fifth annual report, titled Geology of Hislop township, being volume LXV, Part 5, 1956, by V. K. Prest, indicates the predominate underlying bedrock buried under a thick covering of drift consisting of glacial till, sand and gravel. The township is cut by two major strike faults, the most important being the Destor-Porcupine and the second being the north-northwest striking Hislop fault. The rocks occurring in the southeast corner appear to be

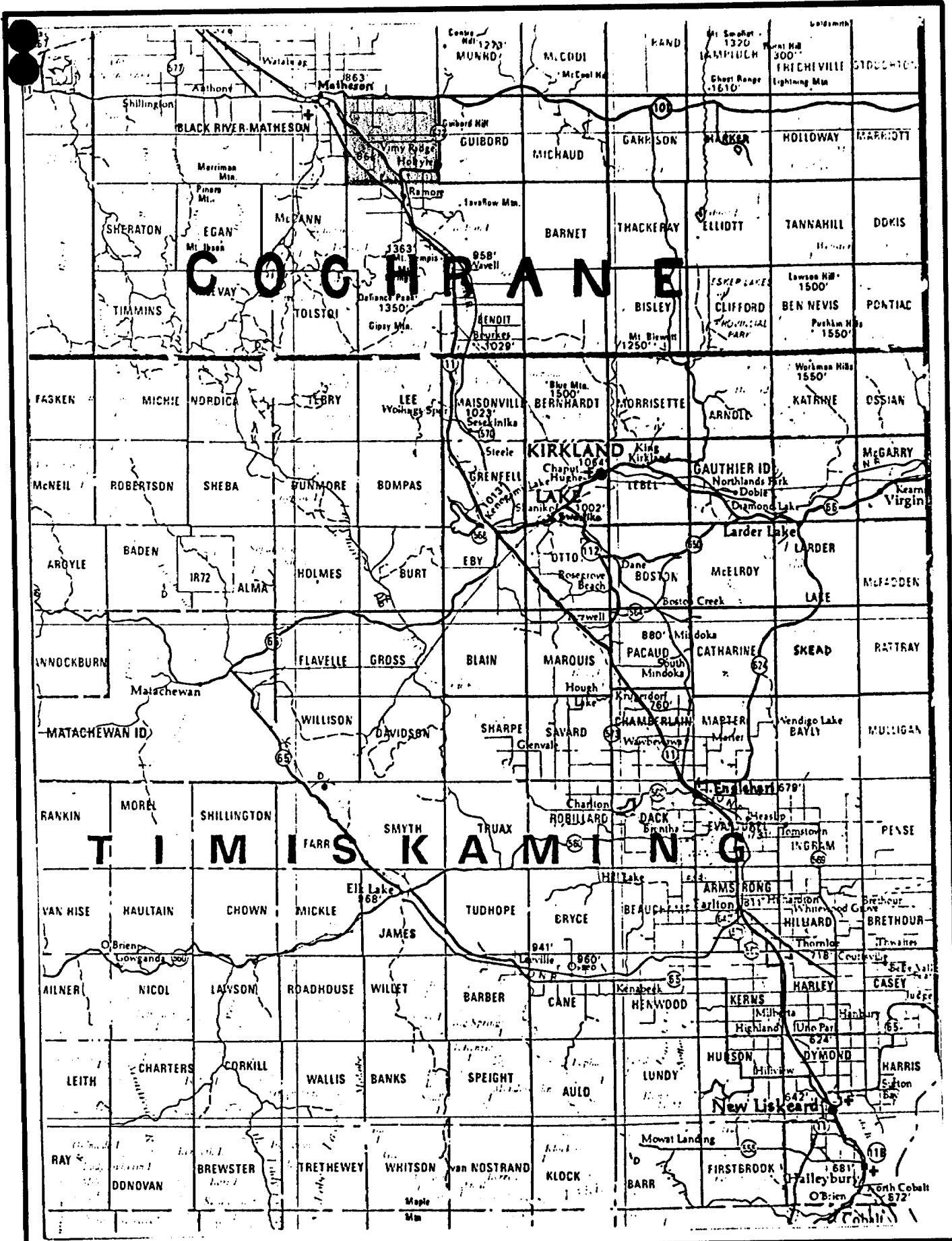


Claim Location Map

Scale: 1 inch to 1/2 mile

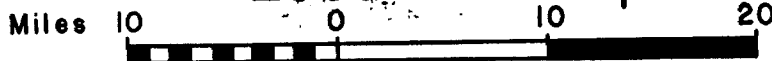
Taken from a Jan. 1988

Figure 1a



Location Map

Figure 1b



mixed clastic, pyroclastic and volcanic rocks.

The Pamour Ross Gold Mine occurs only one claim north of Andy's claims. This mine has been actively producing since 1936, and as of 1954 had produced 318,000 ozs. of gold. The gold veins occur as «pipes» dipping vertical through two ore bodies.

PRESENTATIONS AND DISCUSSIONS OF RESULTS

i) Electromagnetic Survey

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. A-88-1 found in the back pocket of this report.

The VLF-EM data is illustrated as profiled data along the survey lines and is plotted at a vertical scale of one inch = $\pm 10^\circ$ with the positive and in-phase on the bottom and negative and quadrature on the top.

A cross over was noted to trend north-northwest through the centre of the claim group, which may indicate a north-south geological structure such as a contact or fault.

ii) Magnetic Survey

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. A-88-2, found in the back pocket of this report.

The magnetic data is illustrated as isomagnetic contours

(contour interval 100 gammas) on a map of corrected magnetic values recorded at each station.

There was very low magnetic relief detected on Andy's claims. The magnetic trend that was seen may appear to be associated with the north-south EM conductor.

iii) Geology Survey

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. A-88-3, found in the back pocket of this report.

No visible outcrop was found on the property. The overburden was cut by gulleys and appears to be very thick.

Poplar bush occurs across most of L-919837, claim L-919838 is more open with scattered areas of poplar and alder.

The gully which is an erosional feature of the creek extends north along the west side of the property and follows the Holtyre townsite boundary.

CONCLUSIONS AND RECOMMENDATIONS

The claims have a possible north-south EM conductor and related magnetic response. This may indicate an extension of a structure from the nearby Ross Mine. Further work would be warranted but due to the overburden any work considered may have to involve costly reverse circulation or diamond

drilling.

With the possible targets mapped out they should be tested by drilling grid west into the zones.

Respectfully submitted,

A handwritten signature in cursive script that reads "Mary Greer". The signature is written in black ink and is positioned to the right of the typed name.

April 25, 1988

Mary Greer
Geological Technician

BIBLIOGRAPHY

Sixty-fifth Annual Report of the
Ontario Department of Mines
Vol. LXV, Part V, 1956
Geology of Hislop Township

V.K. Prest

C E R T I F I C A T E

I, Mary Greer, of Kirkland Lake, Ontario, do hereby certify:

- 1) That I am a Geophysical Technician and reside at:
49 McKelvie Avenue, Kirkland Lake, Ontario, P2N 2K6
- 2) That I graduated from Sir Sandford Fleming College at
Lindsay, Ontario, in 1978, with a diploma as a Geological
Technician.
- 3) That I have been continuously engaged in my profession for
the past six (6) years and I am qualified to write this
report.
- 4) That I supervised and participated in this survey.

April 25 1988
Date

Mary Greer
Mary Greer
Geophysical Technician



File _____

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL AND - MAGNETIC
GEOLOGICAL SURVEYS - ELECTROMAGNETIC
Township or Area HISLOP
Claim Holder(s) ANDY ANDERSON, GENERAL DELIVERY,
KIRKLAND LAKE, ONTARIO
Survey Company PERRONS
Author of Report MARY GREER, 103 GOV'T RD, EAST,
Address of Author KIRKLAND LAKE, ONTARIO P2N 1A9
Covering Dates of Survey OCTOBER 1987 TO MARCH 1988
(linecutting to office)
Total Miles of Line Cut APPROXIMATELY 1 MILE

MINING CLAIMS TRAVERSED
List numerically

L- 919837
(prefix) (number)
L- 919838

**SPECIAL PROVISIONS
CREDITS REQUESTED**

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
-Electromagnetic 20
-Magnetometer 20
-Radiometric _____
-Other _____
Geological 40
Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: APRIL 25/88 SIGNATURE: Mary Greer
Author of Report or Agent

Res. Geol. _____ Qualifications 2.4529

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 81 Number of Readings VLF-EM
MAGNETIC - 81
Station interval 100 FEET Line spacing 400 FEET
Profile scale 1 INCH = ± 10°
Contour interval 100 GAMMA

MAGNETIC

Instrument MCPHAR GP-8
Accuracy – Scale constant + GAMMA
Diurnal correction method CLOSED LOOPS
Base Station check-in interval (hours) 15 MINUTES
Base Station location and value BL 0 + 00 58457 GAMMAS

ELECTROMAGNETIC

Instrument GEONICS EM16
Coil configuration HORIZONTAL AND VERTICAL
Coil separation INFINITY
Accuracy + 1°
Method: Fixed transmitter Shoot back In line Parallel line
Frequency NSS ANNAPOLIS MARYLAND 21.4 KH³
(specify V.L.F. station)
Parameters measured INPHASE AND QUADRATURE

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____



Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

May 26, 1988

Your File: W8808-108
Our file: 2.11109

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

MAY 30 1988

RECEIVED

Dear Sir:

RE: Notice of Intent dated May 10, 1988
Geophysical (Magnetometer and Electromagnetic) and
Geological Survey submitted on Mining Claims
L 919837 et al in the Township of Hislop

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,


W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM

RM:p1

Enclosure: Technical Assessment Work Credits

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

Resident Geologist
Kirkland Lake, Ontario

Mr. Andrew Anderson
General Delivery
Kirkland Lake, Ontario
P2N 3H6



Recorded Holder	Andrew Anderson
Township or Area	Hislop Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ 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 type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input 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

40 days Geological; 20 days Magnetometer and 15 days Electromagnetic

L 919837

40 days Geological; 15 days Magnetometer and 15 days Electromagnetic

L 919838

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.

Beatty Twp.

Surface Rights withdrawn application pending

Northern Ontario Natural Gas Pipe Line

THE TOWNSHIP OF 2.11109

HISLOP

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (L.C.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS (R)
- IMPROVED ROADS (I.R.)
- KING'S HIGHWAYS (K.H.)
- RAILWAYS (R.L.)
- POWER LINES (P.L.)
- MARSH OR MUSKEG (M)
- MINES (M.N.)
- GEODETIC STATION (G.S.)

NOTES

Holtvre Townsite Shown Thus: [Symbol]

Gravel Reserve Shown Thus: [Symbol]

400' Surface rights reservation around all lakes and rivers.

DATE OF ISSUE

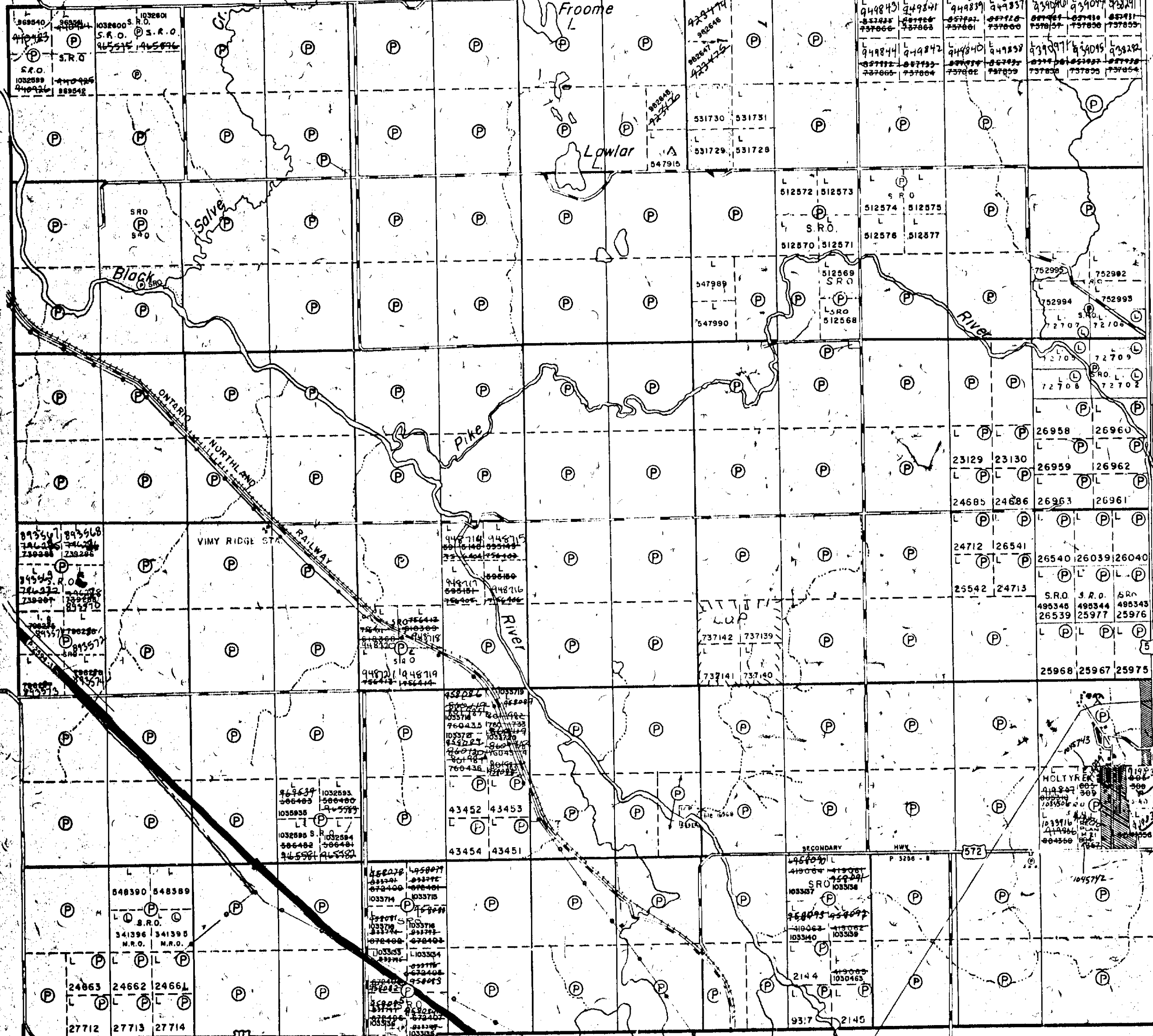
APR 14 1988

LARDER LAKE MINING RECORDS DEPT

#12

PLAN NO.- M-355

ONTARIO MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH



VI

V

IV

III

II

I

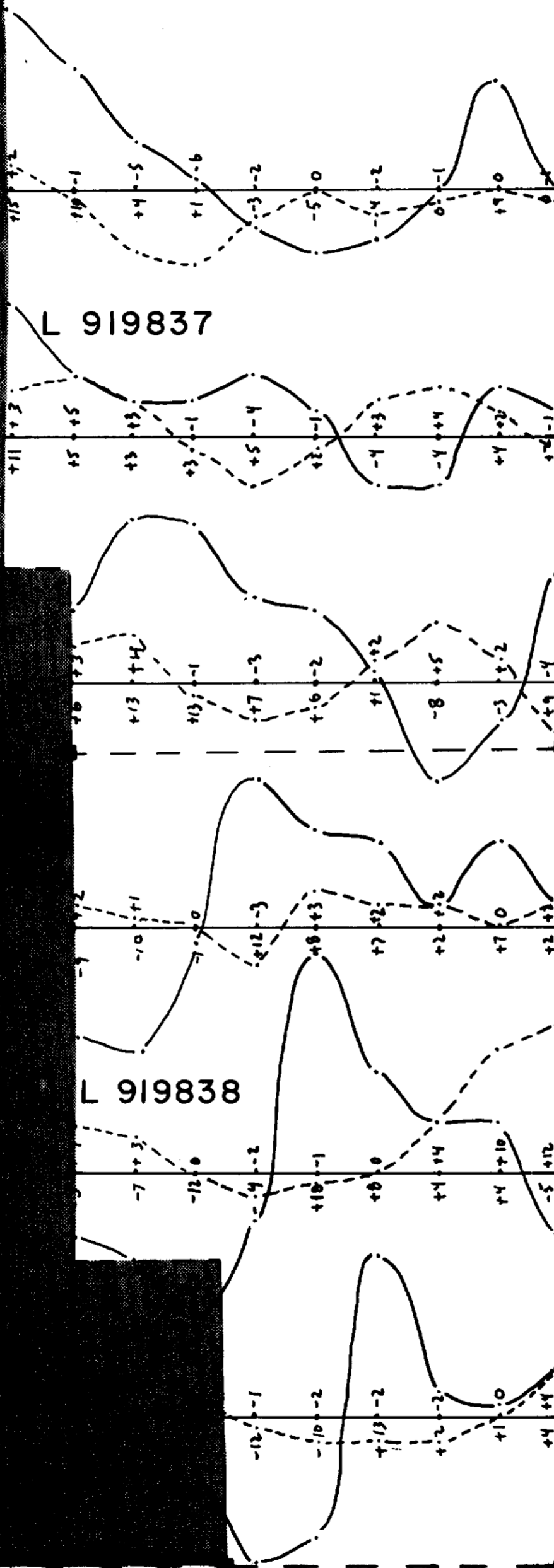
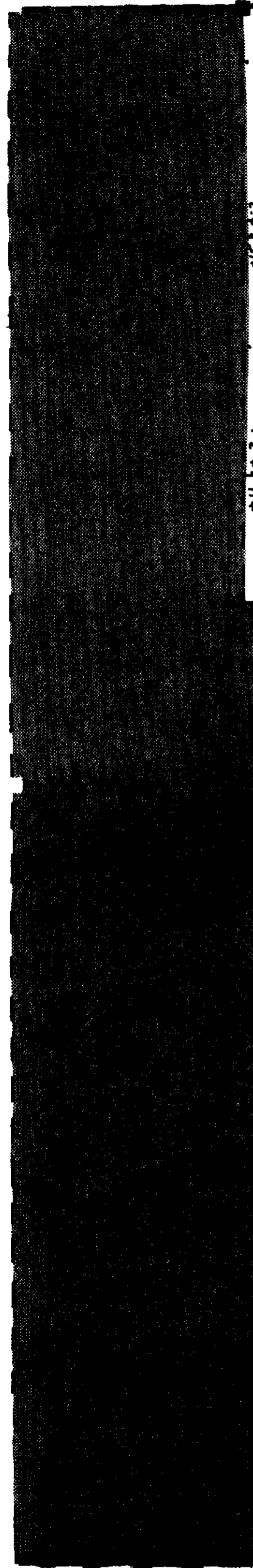
Bowman Twp.

Guibord Twp.

ayfair Twp.

NOTICE OF FORESTRY ACTIVITY
 THIS TOWNSHIP / AREA FALLS WITHIN THE WATABEAO MANAGEMENT UNIT
 AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. POK ITO 705-642-3222





L 919837

L 919838

L 0 + 00

L 4 + 00 S

L 8 + 00 S

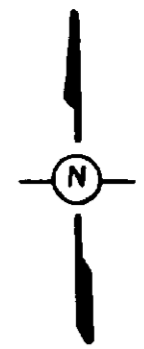
L 12 + 00 S

L 16 + 00 S

L 20 + 00 S

L 24 + 00 S

2.111020



SYMBOLS

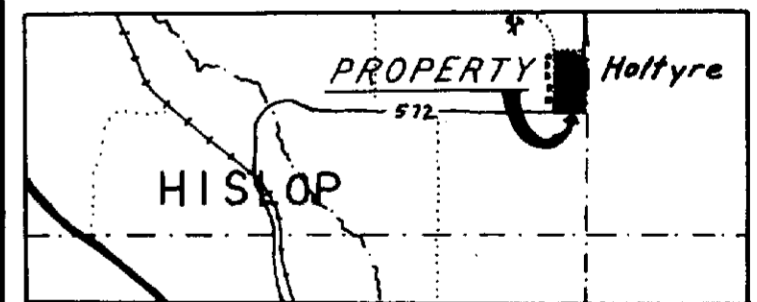
- In-Phase
- Quadrature
- Claim Post
- Claim Line

INSTRUMENTATION

Geonics VLF-EM16
 Annapolis, Maryland NSS 21.4 KHz
 Vertical Scale: 1 inch = ±10°

Holtyre townsite

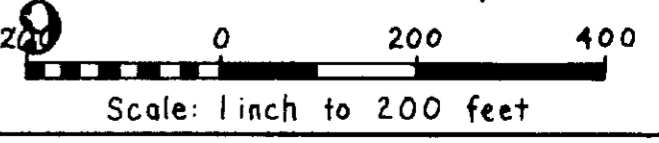
KEY MAP



ANDY'S CLAIMS

GROUND VLF-EM SURVEY

HISLOP TOWNSHIP
 LARDER LAKE MINING DIVISION
 DISTRICT OF COCHRANE, ONTARIO



PERRONS'

Kirkland Lake Canada

Drawn by: R. Stuart No. 88-A-1 Date: March 1988

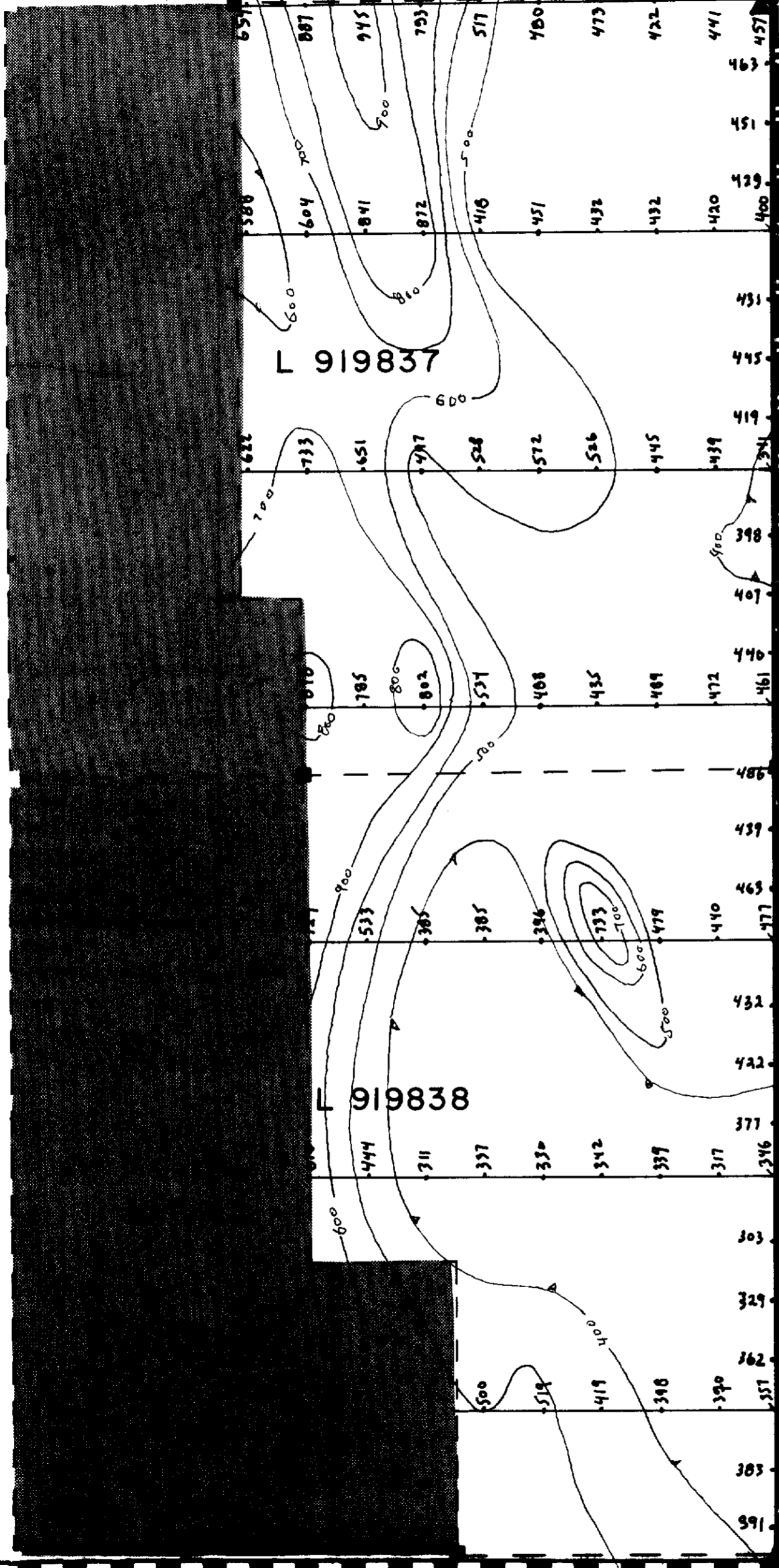


42A08NW0047 2.11109 HISLOP

210

Hislop Township

Guibord Township



L 0 + 00

L 4 + 00 S

L 8 + 00 S

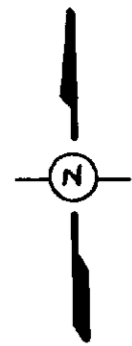
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L 16 + 00 S

L 20 + 00 S

L 24 + 00 S

2.11109



SYMBOLS

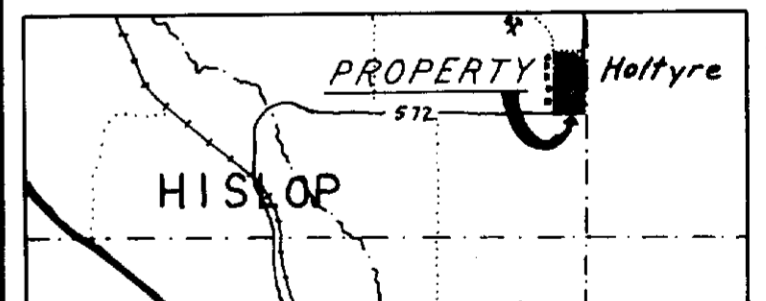
- Isomagnetic contours
- Base station
- Claim post
- Claim line

INSTRUMENTATION

McPHAR GP-8
 PROTON MAGNETOMETER
 Datum subtracted 58,000 γ
 Contour interval - 100 γ

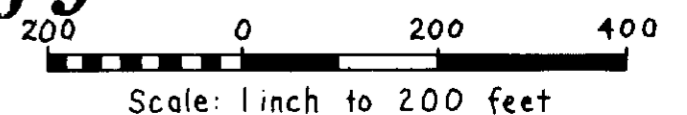
Holtre townsite

KEY MAP



Andy Green
ANDY'S CLAIMS

GROUND MAGNETOMETER SURVEY
 HISLOP TOWNSHIP
 LARDER LAKE MINING DIVISION
 DISTRICT OF COCHRANE, ONTARIO

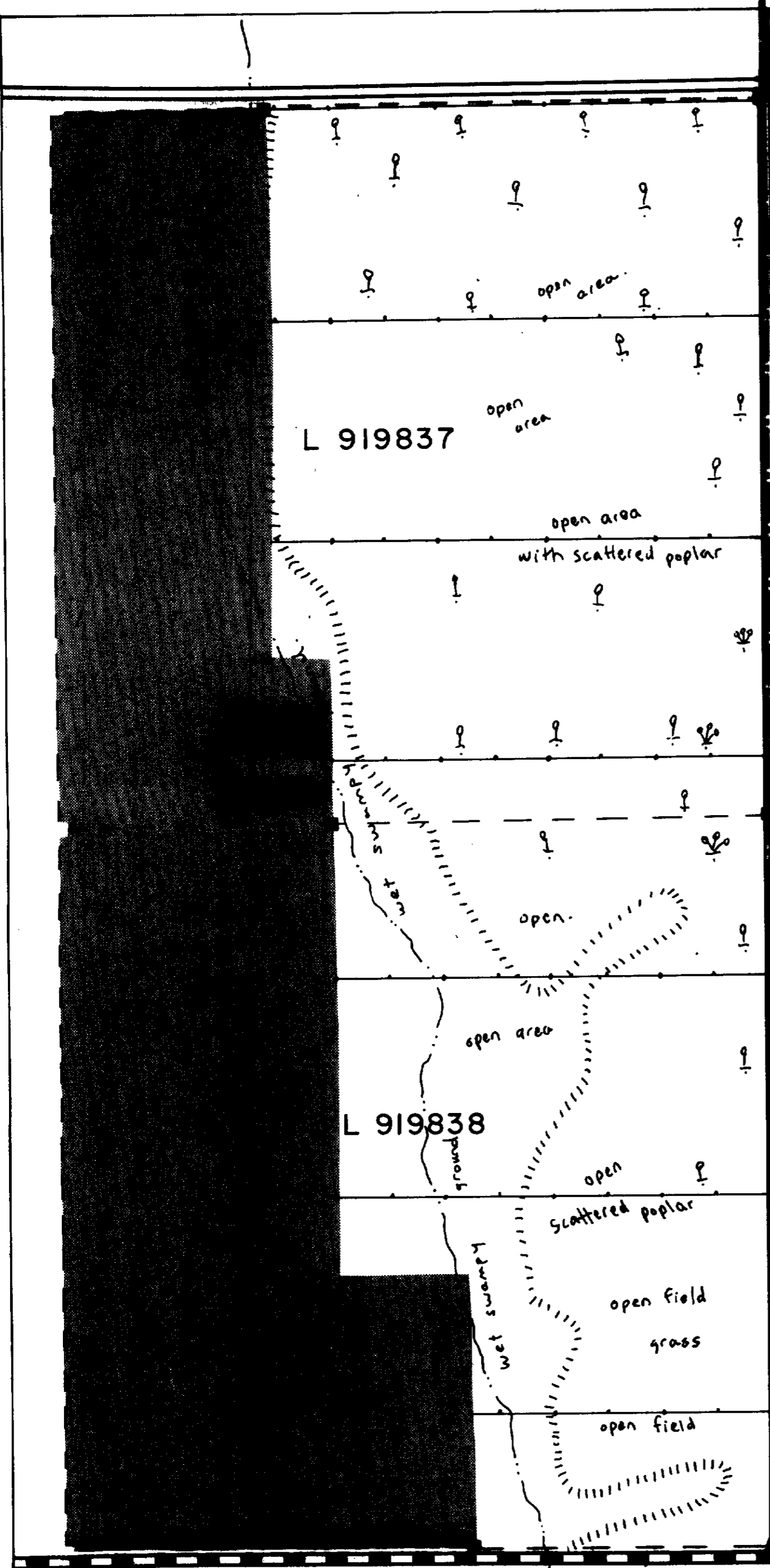


PERRONS'

Kirkland Lake Canada

Drawn by: R. Stuart No. 88-A-2 Date: March 1988





L 0 + 00

L 4 + 00 S

L 8 + 00 S

L 12 + 00 S

L 16 + 00 S

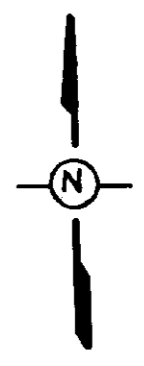
L 20 + 00 S

L 24 + 00 S

L 919837

L 919838

2.11109



SYMBOLS

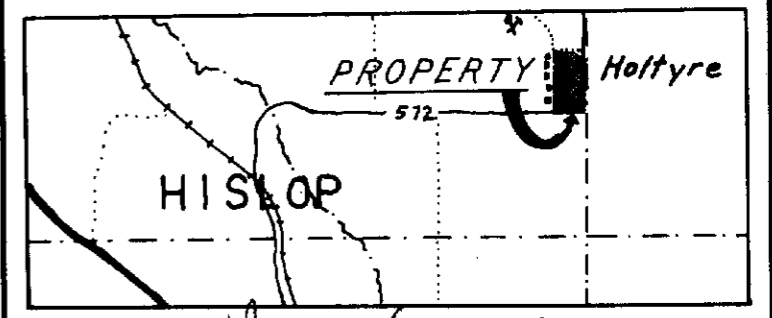
- ♀ Poplar, birch
- ♂ Alder
- ⋯ Ravine
- ~ Creek
- Claim post --- Claim line
- Township line
- ▬ Secondary Highway
- ▬ Secondary Road.

LEGEND

□ Andesite, basalt

Holtyre townsite ■

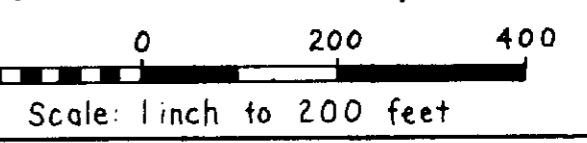
KEY MAP



ANDY'S CLAIMS

GEOLOGICAL SURVEY

HISLOP TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF COCHRANE, ONTARIO



PERRONS'

Kirkland Lake Canada

