REPORT ON

GOEPHYSICAL SURVEYS

PERFORMED ON

101 CLAIM GROUP

HOLLOWAY TOWNSHIP

LARDER LAKE MINING DIVISION

MATHESON AREA - ONTARIO

FOR

H. E. NEAL

BY

PETER G. ATHERTON B.Sc.

H. E. NEAL & ASSOCIATES LTD.

TORONTO -- CANADA

July, 1982

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1.0 SUMMARY

H. E. Neal & Associates Ltd. were contracted to conduct ground magnetic and VLF-EM surveys over the 101 group of claims by Mr. H. E. Neal in Holloway Township.

The VLF-EM survey using the Cutler, Maine station located 6 possible conductors. Most of these conductors appear to be the result of outcrop ridges or buried ridges. Conductor H-1 appears to be located on the possible northern extension of the Ghostmount Fault.

The magnetic survey outlined the northeasterly trend of the geological structure. The possible southern contact of the Destor-Porcupine Fault zone is located in the northern part of the claims. Other strike faults and North-South faults are also enterpreted from the magnetics.

To further evaluate the property a geological survey is proposed later in 1982. Maps at a scale of 1" to 200' for magnetometer and VLF-EM surveys accompany this report.

2.0 INTRODUCTION

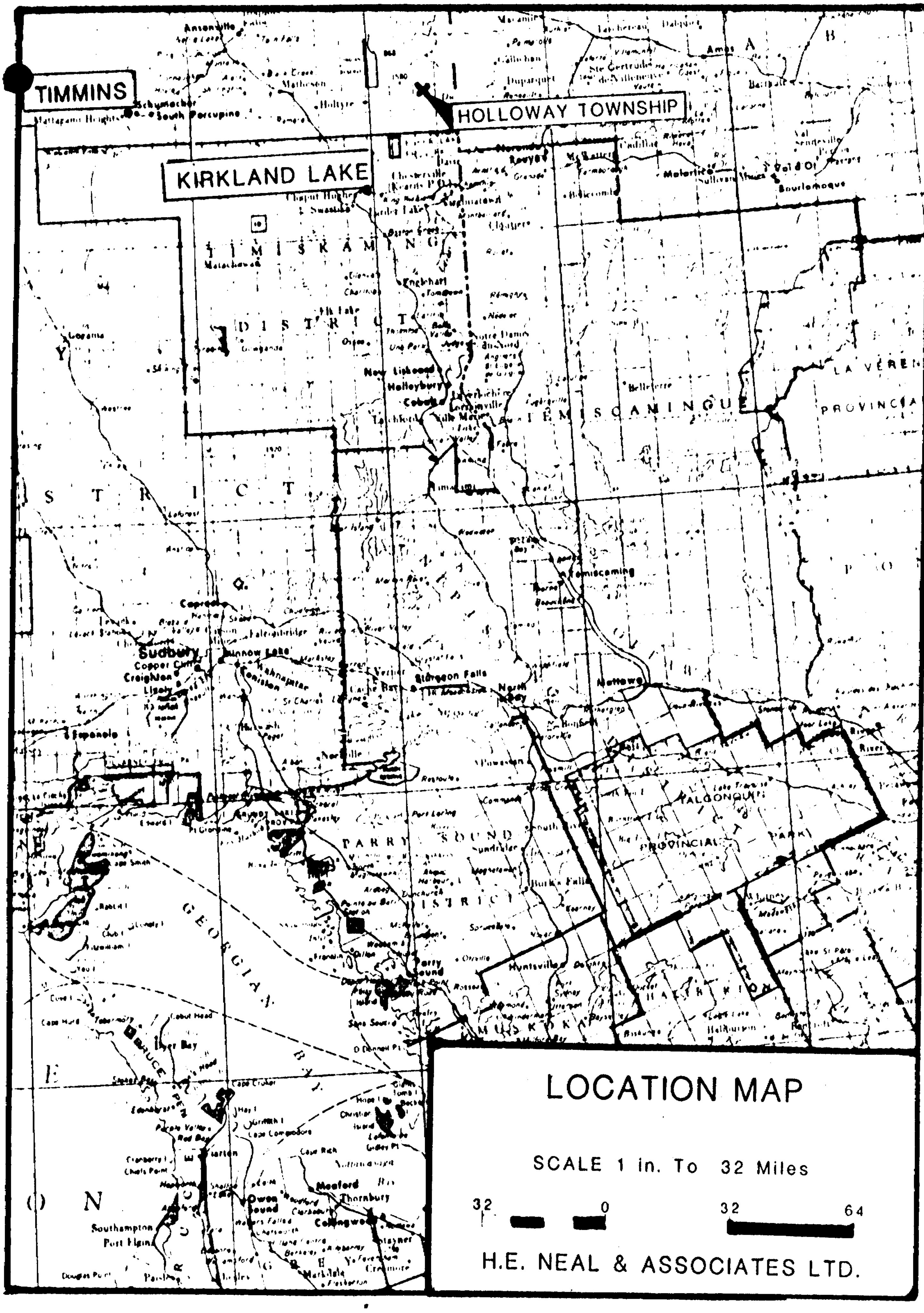
H. E. Neal & Associates were contracted to conduct ground VLF-EM and magnetic surveys over 10 claims held by Mr. H. E. Neal in Holloway Township.

The Jean Alix Co. Ltd. was sub-contracted to cut and chain 10.4 miles of lines which included an east-west baseline 9,000 feet in length. Cross lines were cut every 400'. A two man field crew conducted ground VLF-EM and magnetic surveys over this grid during March 1982. This field crew was based in Holtyre, Ontario located 26 miles west of the property.

The ground magnetic survey was conducted using a Scintrex MF-1 Fluxgate magnetometer while the VLF-EM survey was conducted with a Geonics EM-16 using the VLF-EM frequency for the Cutler, Maine station.

The results are shown in this report and are to be applied for assessment credits on all 10 claims.


ONTARIO
QUE.
TIMMINS
NEAL CLAIMS
KIRKLAND LAKE
THUNDER BAY
SAULT
STE MARIE
TORONTO
HAMILTON
0
100
200
300
MILES
H E NEAL & ASSOCIATES LTD



TIMMINS
HOLLOWAY TOWNSHIP
KIRKLAND LAKE
TIMISKAMING DISTRICT
TÉMISCAMINGUE
PROVINCIAL
LA VÉREN
Sudbury
New Liskeard
Haileybury
Cobalt
Englehart
Matheson
Noranda
Val d'Or
Bourlamaque
Amos
Temiscaming
Mattawa
North Bay
Sturgeon Falls
Espanola
Parry Sound
PARRY SOUND DISTRICT
ALGONQUIN PROVINCIAL PARK
Huntsville
HALIBURTON
MUSKOKA
GEORGIAN BAY
BRUCE PEN
Owen Sound
Meaford
Thornbury
Collingwood
Southampton
Port Elgin
LOCATION MAP
SCALE 1 in. To 32 Miles
32
0
32
64
H.E. NEAL & ASSOCIATES LTD.

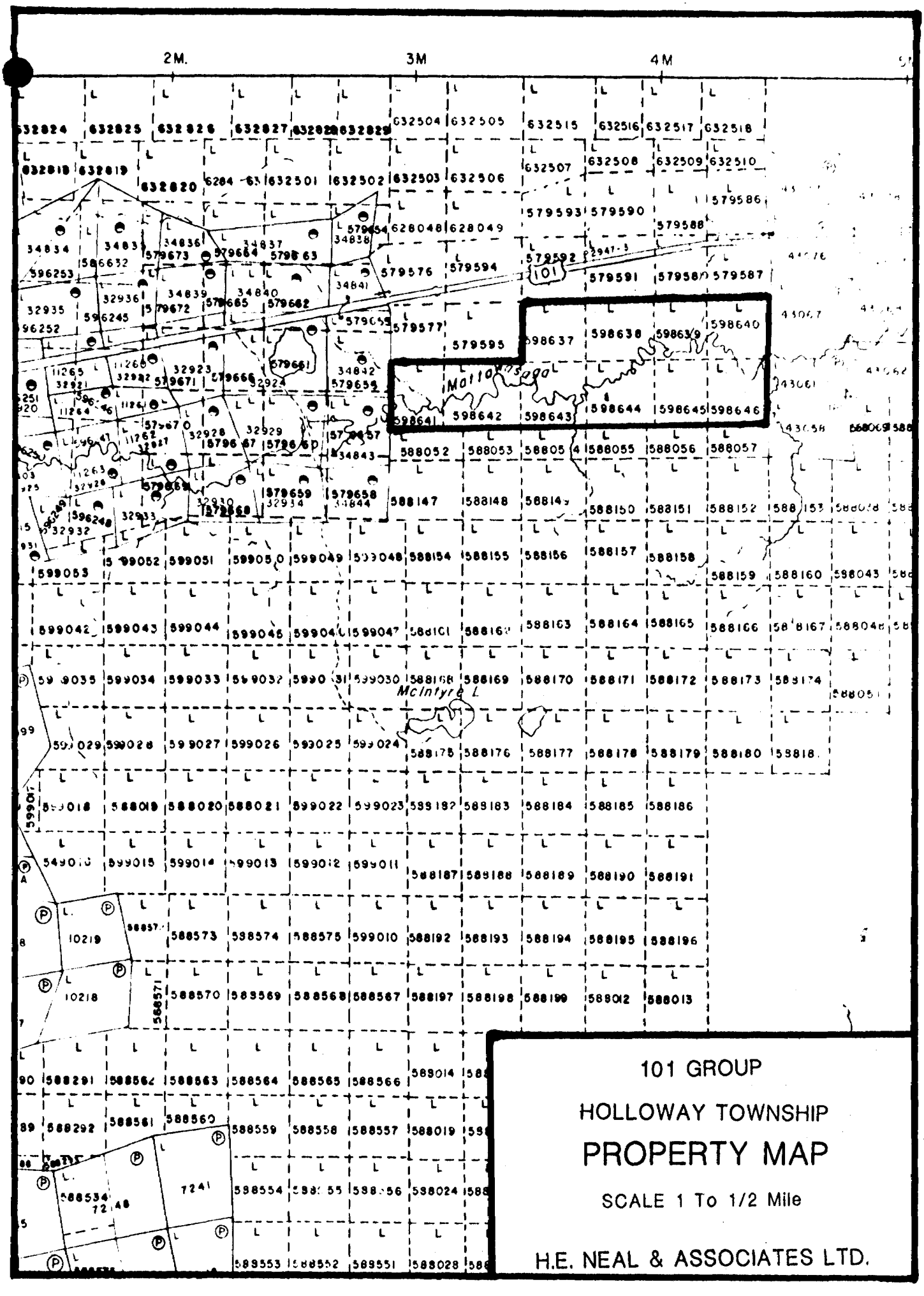
3.0 THE PROPERTY

The property consists of 10 contiguous claims in Holloway Township.

The claims are held by H. E. Neal, 124 Roxborough Drive, Toronto, Ontario.

The claims are listed below:

L598637 to L598646


2M.
3M
4M
101
Mollo Lake
McIntyre L
101 GROUP
HOLLOWAY TOWNSHIP
PROPERTY MAP
SCALE 1 To 1/2 Mile
H.E. NEAL & ASSOCIATES LTD.

4.0 LOCATION AND ACCESS

The 10 claims are located on Holloway Township, District of Cochrane, in the Larder Lake Mining Division.

The west side of the claim group is located 26 miles north-east of the town of Holtyre.

Access to the property is east along Highway 101 to Holloway Lake in Holloway Township. The claims are located 700' south of the Highway at this point and are accessible by foot.

5.0 PREVIOUS WORK

1949 - Lobanor Gold Mines Limited drilled 5 diamond drill holes totalling 5,129 feet. Four were drilled on claims held by H. E. Neal.

1960 - Revere Mining Corporation Ltd. conducted ground magnetic and electrical resistivity surveys over claims held by them. Work also included 7 drill holes totalling 3,121 feet. This work also included claims now held by H. E. Neal.

1952 - J. Satterly from the Ontario Department of Mines mapped the northern part of Holloway Township which also includes the H. E. Neal claims.

6.0 GENERAL GEOLOGY

The rocks in Holloway Township are Archean in age and belong to the Abitibi Sub-Province of the Superior Province. The rocks are mainly Keewatin andesite and basalt with some interflow sediment. A wide band of sediments occurs roughly parallel to Highway 101 across the township. The northwestern part of the township is underlain by mafic to ultramafic intrusives that make up part of the Ghost Range Syncline.

The rocks face south and dip south at 80° or steeper. The rocks generally trend east north-east.

The major structural feature in the township is the Destor-Porcupine Fault Zone which is roughly parallel to and in the vicinity of Highway 101. Some cross faulting does occur in the township but is usually obscured by extensive overburden.

The overburden covers approximately 80% of the township and has reported thickness up to 150'.

A table of formations from Satterly (1953) is shown on the following page.

Table of Formations

CENOZOIC	
RECENT:	Peat: stream deposits.
PLEISTOCENE:	Sand, gravel, boulders; varved clay.
	Great unconformity
PRECAMBRIAN	
KEWEENAWAN:	Quartz diabase.
	Intrusive contact
MATACHEWAN:	Quartz diabase, diabase.
	Intrusive contact
ALGOMAN:	Feldspar porphyry; felsite; lamprophyre.
	Intrusive contact
PRE-ALGOMAN:	Diabase, gabbro; peridotite and dunite (serpentinized); pyroxenite.
	Intrusive contact
KEEWATIN:	
Volcanics:	Rhyolite; rhyolite agglomerate and tuff. Andesite, basalt; pillow lava; diabasic lava; spherulitic lava; fragmental lava (flow breccia or agglomerate); tuff and chert; talc-chlorite schist; carbonate-chlorite schist.
	Faulted contact
Sediments:	Greywacke; slate; conglomerate; iron formation.

J. Satterly (1953).

7.0 GEOPHYSICS

7.1 Magnetic Survey

7.1.1 Instrument and Sensitivity

The instrument used was a Fluxgate magnetmeter, Model MF-1, manufactured by Scintrex Limited. It has an accuracy of ±0.5% from the 1,000% to 10,000 gamma scale and an accuracy of ±1.0% at scales greater than 10,000 gammas.

The Fluxgate magnetometer measures the strength of the vertical component of the total magnetic field. The resulting value is given in gammas.

The magnetic field at any given station will consist of the sum of the earth's magnetic field and the magnetic field of the bedrock at that point. The magnetic field of the bedrock is dependent on the concentration of naturally magnetic minerals in the bedrock or minerals capable of possessing a secondary field which is induced by the earth's primary magnetic field.

7.1.2 The Survey

The magnetic survey was conducted during March 1982 by Dwain Parks over the entire claim group. Readings were taken at 25' intervals along all cross lines and at 50' intervals along the baseline. The cross lines were cut at 400' intervals perpendicular to the baseline. The main base station for the grid was located on the baseline at 36E with secondary base stations located on the baseline at 800' intervals.

relative to 36E.

Due to fluctuations in the earth's magnetic field, it is necessary to make diurnal corrections in order to bring all readings to a common base. To accomplish this, readings were recorded and a series of base stations were established along the baseline. These were tied into a base station. Crosslines were completed in tandem as loops with the first and last reading corresponding with one baseline station. Even though different base stations were used, all stations recorded on the grid could be corrected relative to each other.

The contoured results of the magnetic survey aid in the determination of strike, dip, location and shape of a magnetic body.

7.2 The Electromagnetic Survey

7.2.1 Instrument and Sensitivity

The instrument used in the survey was a Geonics EM16 VLF-EM. The sensitivity of the In-phase is $\pm$150% and Quad-phase is $\pm$40%. The instrument has a resolution of $\pm$1%. The Geonics EM16 has an operating range of 15 to 25 KHz VLF operating band.

The EM16 is a sensitive receiver which measures the vertical field components of secondary magnetic fields caused in the following manner.

The VLF transmitting stations have a vertical antenna with a vertical antenna current. This creates a concentric-horizontal magnetic field around each station. When the magnetic fields come in contact with conductive bodies in the ground a secondary magnetic field radiates from these bodies.

The receiver has two receiving coils with one coil having a vertical axis and the other a horizontal axis. The signal from the vertical axis coil is minimized by tilting the instrument which measures the vertical real component as a percentage. The remaining signal is balanced out by a measured percentage of a signal from the horizontal coil which gives an accurate measure of the quadrature vertical signal. The measured values are relative only.

The VLF station N.A.A., Cutler, Maine was chosen because it is in line with the strike of the rocks in the area. The results of a survey when plotted as a profile show the location of various conductors in the ground.

7.2.2 The Survey

The VLF-EM survey was carried out by C. Curry during March, 1982. This was part of the overall exploration program conducted by H. E. Neal & Associates Ltd. in Holloway Township. The survey was conducted over the same grid system as the magnetometer survey. Readings were recorded at

50' intervals along the crosslines and recorded as facing north. No readings were systematically taken along the baseline other than those that coincided with the junction of the baseline and cross over lines. The VLF transmitting station used was N.A.A Cutler, Maine, which has a transmitting frequency of 17.8 KHz.

8.0 RESULTS

8.1 Magnetic Survey

The magnetic survey revealed the basic trend of the rocks to be in a northeast southwest direction and dipping steeply to the south.

The magnetic low located in the northwest corner of claim L598641 is probably due to underlying sediments. The southern contact of this magnetic low could be the part of the Destor-Porcupine Fault zone or the Ghostmount Fault which are two major strike faults in the township. The magnetic low occurring on the north part of claims L598637 and L598638 is probably due to underlying sediments. This band of sediments is thought to be sheared and is probably within the Destor-Porcupine Fault zone.

The magnetic low underlying the south half of the claim group is due to underlying andesite. There is enough drill hole and outcrop evidence to support this assumption.

The band of magnetic highs separating the two magnetic lows is probably due to basalt flows and/or mafic sills that are common in the area. These bands of magnetic highs are continuous except in the area between L32E and L56E near the baseline where a strike fault appears to intersect the rock units. This part of the property is also cut by a north-south fault probably located west of line 36E.

The small magnetic high on lines 72E and 76E in claim L598645 is likel a small mafic intrusion.

8.2 VLF-EM Survey

The VLF-EM survey located 6 conductors. These were assigned numbers f om H-1 to H-6.

Conductors H-4, 5 and 6 are probably caused by outcrop ridges or buried ridges as they occur in an outcrop area. The profiles have a negative slope before becoming positive and this is usually indicative of outcrop ridges and buried ridges.

Conductor H-3 is located on lines 68E and 72E where they cross the Mattawasaga River. This could be the cause of the conductor or it could be caused by a combination of buried ridge and the river. The latter is more likely as the river generally is not marked by such a strong conductor.

Conductor H-2 is also likely caused by a buried ridge. The profile of this conductor does not have the strong negative slope that conductors H-4, 5 and 6 have and may have another cause.

Conductor H-1 is located on claim L598641. This conductor shows characteristics that suggest it is caused by a buried outcrop ridge. It is also located on the possible extension of the Ghostmount Fault and could be caused by differences in conductivity between rock types.

9.0 CONCLUSIONS

The magnetometer and VLF-EM surveys were useful in determining the geological structure. The magnetics also gave a broad indication of the rock types underlying the claim group. The rocks were shown by the magnetics to trend northeast-southwest and to be dipping south.

The magnetics suggest the presence of the southern contact of the Destor-Porcupine Fault zone in the north part of the claim group and that the shear zone is following a band of sedimentary rocks in a northeasterly direction. A strike fault is indicated between lines 32E and 56E and trending slightly southeast and a possible north-south trending cross fault occurs west of line 36E.

Most of the VLF-EM conductors show characteristics that suggest they are caused by outcrop or buried ridges. Conductor H-1 although also showing this characteristic is also located along the possible northern extension of the Ghostmount Fault and may be caused by differences in conductivity between rock types.

A detailed geological survey is recommended for this claim group in an effort to further evaluate the rest of the VLF-EM conductors and a geological survey could possibly provide a better explanation for their existence.

Peter G. Atherton B.Sc.

H. E. Neal & Associates Ltd.

CERTIFICATE

I, Peter G. Atherton of 5425 Croydon Road, Burlington, Ontario, do hereby certify:

1) That I graduated from Brock University in 1975 and have practised my profession since that time.

2) That I have no interest directly or indirectly nor do I expect to have any interest in the properties held by H. E. Neal.

3) My report is based on personal examination of the property and supervision of the surveys being conducted on the property.

Toronto, Ontario

July, 1982

Peter G. Atherton B.Sc

Peter G. Atherton B.Sc.

Ontario — Geochemical and Expenditures)

W8208.00159
(file 2598637)

The Mining A

900

Type of Survey(s)

EM-16 MAGNETOMETER & VLF-EM (CUTLER)

Claim Holder(s)

HAROLD NEAL — 2.4951 — M74568

Address

C/O N.E. NEAL & ASSOC. LTD. 55 QUEEN ST. E. SUITE 607 TORONTO M5C 1R6 — HOLLOWAY TWP — A44568

Survey Company	Date of Survey (from & to)						Total Miles of line Cut
	Day	Mo.	Yr.	Day	Mo.	Yr.	
N.E. NEAL & ASSOC. LTD.	15	03	82	30	4	82	

Name and Address of Author (of Geo-Technical report)

N.E. NEAL C/O N.E. NEAL & ASSOC. LTD. 55 QUEEN ST. E. SUITE 607 TORONTO, ONT. M5C 1R6

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	20
	- Magnetometer	20
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	
	Magnetometer	
	Radiometric	

Expenditures (exclude power stripping)

RECEIVED
JUN - 8 1982
MINING LANDS SECTION

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	598637				
	598638				
	598639				
	598640				
	598641				
	598642				
	598643				
	598644				
	598645				
	598646				

LARDER LAKE MINING DIV.
RECEIVED
MAY 26 1982
AM 7 8 9 10 11 12 1 2 3 4 5 PM

Total number of mining claims covered by this report of work. 10

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
400	MAY 26 1982	
	Date Approved as Recorded	Branch Director
	82.07.07	

Date	Recorded Holder or Agent (Signature)
May 21 1982	

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

H. E. NEAL C/O N.E. NEAL & ASSOCIATES
55 Queen St. E. (Suite 607) TORONTO M5C 1R6

Date Certified	Certified by (Signature)
May 21/82	

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.4951

Mining Lands Comments

- Report not signed

OK

☑ To: Geophysics MR Barlow

Comments

Report not signed

Accompanying certificate signed - let go! JDM.

☑ Approved ☐ Wish to see again with corrections | Date Jan 31/83 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1982 07 30 2.4951

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 598637 et al in the Township of Holloway.

This material will be examined and assessed and a statement of assessment work credits will be issued.

YOurs very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura:sc

cc: H.E. Neal & Associates Limited
Toronto, Ontario
Attn: Peter Atherton

H. E. NEAL & ASSOCIATES LTD.
Mineral Consultants

Ste. 607, 55 Queen Street East, Toronto, Canada M5C 1R6 Telephone: (416) 368-0166

July 20, 1982

Mr. E. F. Anderson
Director
Lands Management Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Enclosed please find the following property reports submitted for assessment work credits by H. E. Neal and Associates Ltd. on behalf of Mr. H. E. Neal.

1) 2 copies - Geophysical Surveys Performed on the 101 Claim Group, Holloway Township, Larder Lake Mining Division, Matheson Area-Ontario (two ground magnetometer maps and two VLF-EM maps - scale 1" to 200' accompanying each report).

Please note that in the Report of Work Form sent to the Mining Recorder's Office for the Larder Lake Mining Division and received by them May 26, 1982, it was stated that Mr. H. E. Neal would by the author of the accompanying report. Due to unforeseen difficulties encountered by Mr. Neal he was not able to write the report. It was therefore left to me to write the report. Please note this in your records and if there are problems because of this change please let me know at the above address.

Respectfully submitted,

Peter G. Atherton B.Sc.

Peter G. Atherton B.Sc.
H. E. Neal & Associates Ltd.

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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) Magnetometer and VLF-EM

Township or Area Holloway Township

Claim Holder(s) H. E. Neal

Survey Company H. E. Neal & Associates Ltd.

Author of Report Peter G. Atherton

Address of Author c/o H. E. Neal & Associates, 607-55 Queen Street E., Toronto, Ontario

Covering Dates of Survey March 15, 1982 to July 20, 1982 (linecutting to office)

Total Miles of Line Cut 10.4 miles

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	20
--Magnetometer	20
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: July 20, 1982 SIGNATURE: Peter G. Atherton
Author of Report or Agent

Res. Geol. _____ Qualifications 2 3665

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	598637
L	598638
L	598639
L	598640
L	598641
L	598642
L	598643
L	598644
L	598645
L	598646

Note: April 7/83
Called author, will submit work report for geological survey and line cutting in near future.
R. Pibetts

TOTAL CLAIMS 10

If space insufficient, attach list

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Magnetometer 1990 VLF-EM 905 Number of Readings Mag 1990 VLF-EM 905

Station interval Mag 25' & 50' VLF-EM 50' Line spacing 400'

Profile scale VLF 1" to +40%

Contour interval Mag 100 gammas

MAGNETIC

Instrument SCINTREX MF-1 FLUXGATE MAGNETOMETER

Accuracy – Scale constant ±0.5% from 1000 gamma to 10,000 gamma scale & ±1% for greater than 10,000 gammas.

Diurnal correction method BL reading #1 - BL reading #2 divided by # of readings progressive adjustment.

Base Station check-in interval (hours) 2 hours

Base Station location and value BL 36+00E 690 gammas

ELECTROMAGNETIC

Instrument GEONICS EM16 VLF-EM

Coil configuration 2 coils 1 vertical 1 horizontal

Coil separation NA

Accuracy resolution of ± 1%

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency N.A.A. Cutler, Maine 17.8 KHz (specify V.L.F. station)

Parameters measured INPHASE & 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 _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

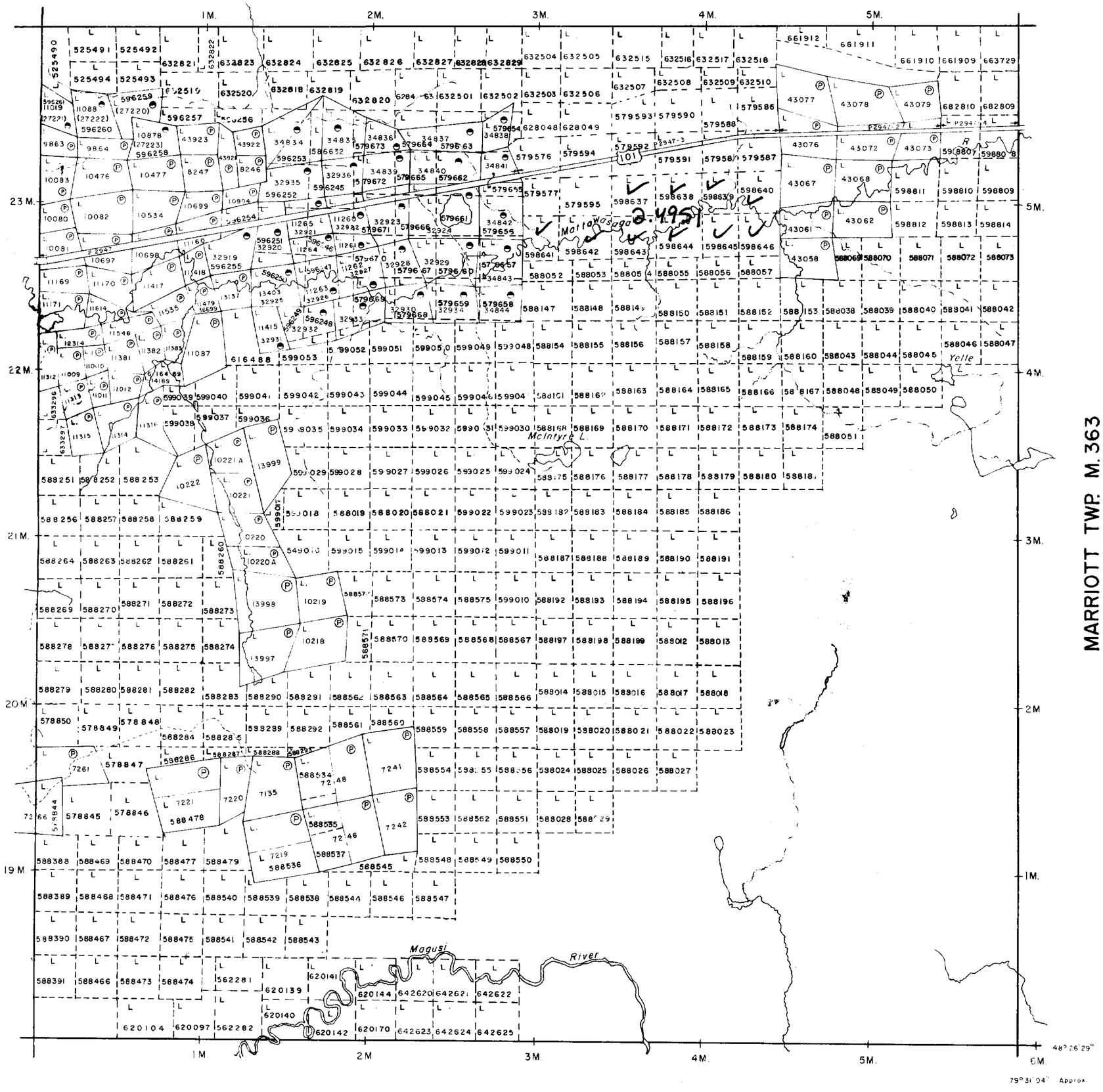
General _____

FRECHEVILLE TWP. M.348

HARKER TWP. M.353

MARRIOTT TWP. M.363

TANNAHILL TWP. M.390



NOTES

400' surface rights reservation along the shores of all lakes and rivers.

LEGEND

PATENTED LAND	(P) or ●
PATENTED FOR SURFACE RIGHTS ONLY	◓
LEASE	(L)
LICENSE OF OCCUPATION	L.O.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	17
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

* used only with summary of claim notations or when space is limited

TOWNSHIP OF

HOLLOWAY

DISTRICT OF
COCHRANE

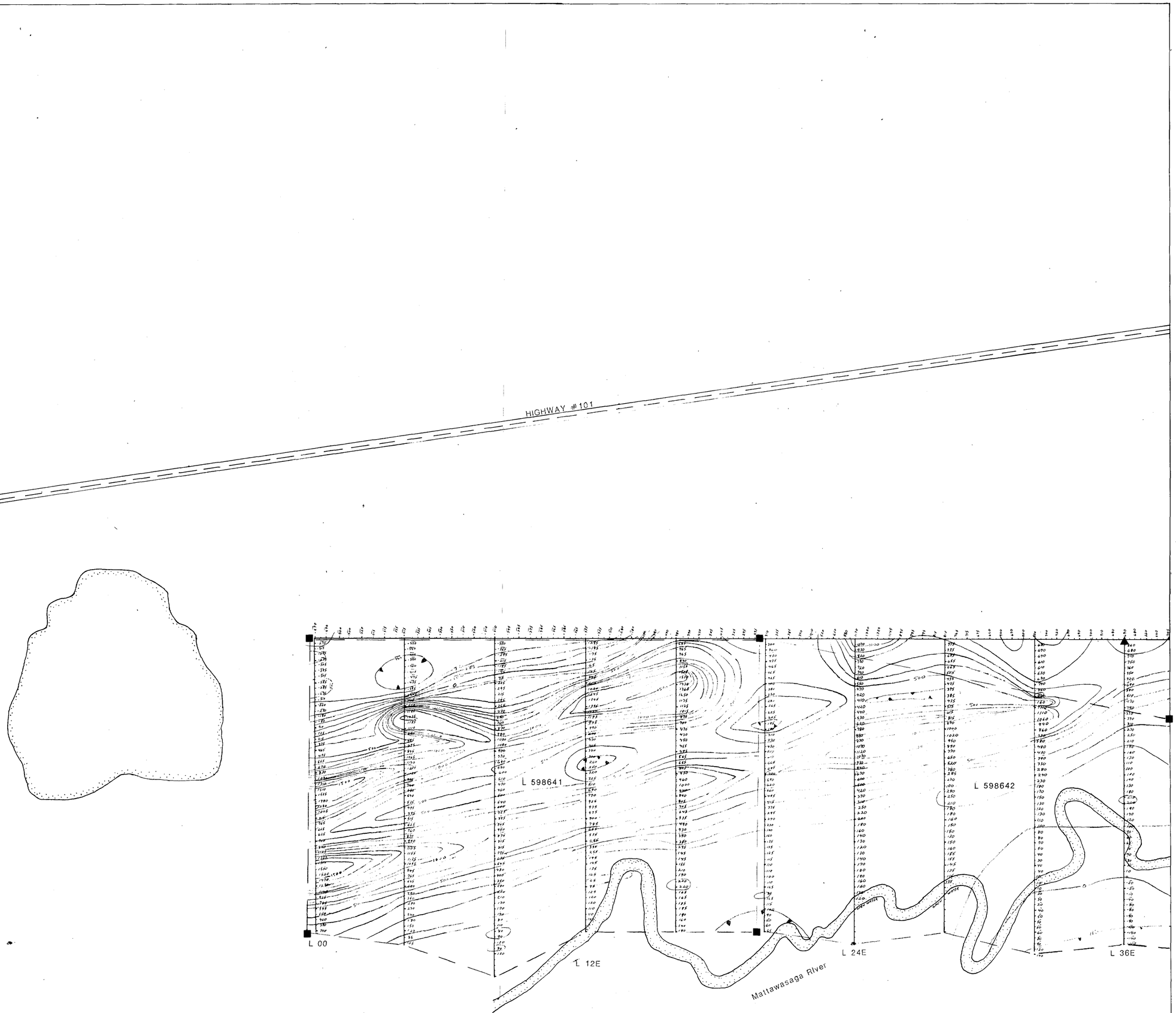
LARDER LAKE
MINING DIVISION

SCALE : 1 INCH 40 CHAINS (1/2 MILE)

DR. K.K.I.
DATE MARCH '72

PLAN NO. M.356

ONTARIO
MINISTRY OF NATURAL RESOURCES



11°W

Mag.

LEGEND

1200 ɣ

1000 ɣ

800 ɣ

600 ɣ

400 ɣ

200 ɣ

0 ɣ

SYMBOLS

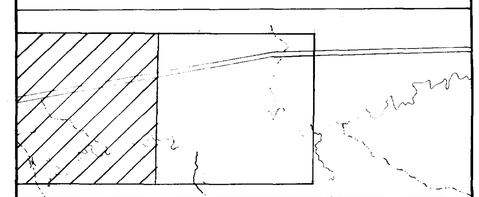
Base station ▲

Contour Interval 100 ɣ

INSTRUMENT

SCINTREX MF 1 FLUXGATE MAGNETOMETER

KEY MAP



Peter B. Alberta B.Sc

101 GROUP OF H.E. NEAL

GROUND MAGNETOMETER SURVEY

LOT CONC.

HOLLOWAY TOWNSHIP

DISTRICT OF COCHRANE

200 0 200 400 600 FEET

1 INCH TO 200 FEET

H.E. NEAL & ASSOCIATES LTD.

TORONTO CANADA

DRAWN BY: P.G.A. APPROVED BY:	DRAWING No.	DATE: MAY 1981

210

24951

HIGHWAY #101

L 598637

L 598638

L 598639

L 598640

L 598643

L 598644

L 598645

L 598646

Mattawasaga River

L 40 E

L 52 E

L 64 E

L 76 E

L 88 E

11°W

Mag.

LEGEND

1200 ɣ

1000 ɣ

800 ɣ

600 ɣ

400 ɣ

200 ɣ

0 ɣ

SYMBOLS

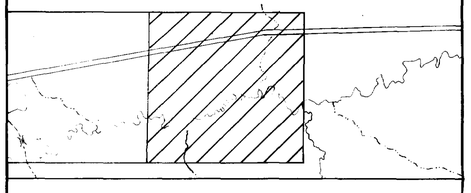
Base station ▲

Contour Interval 100 ɣ

INSTRUMENT

SCINTREX MF 1 FLUXGATE MAGNETOMETER

KEY MAP



Peter B Ellwood B Sc

101 GROUP OF H.E. NEAL

GROUND MAGNETOMETER SURVEY

LOT CONC.

HOLLOWAY TOWNSHIP

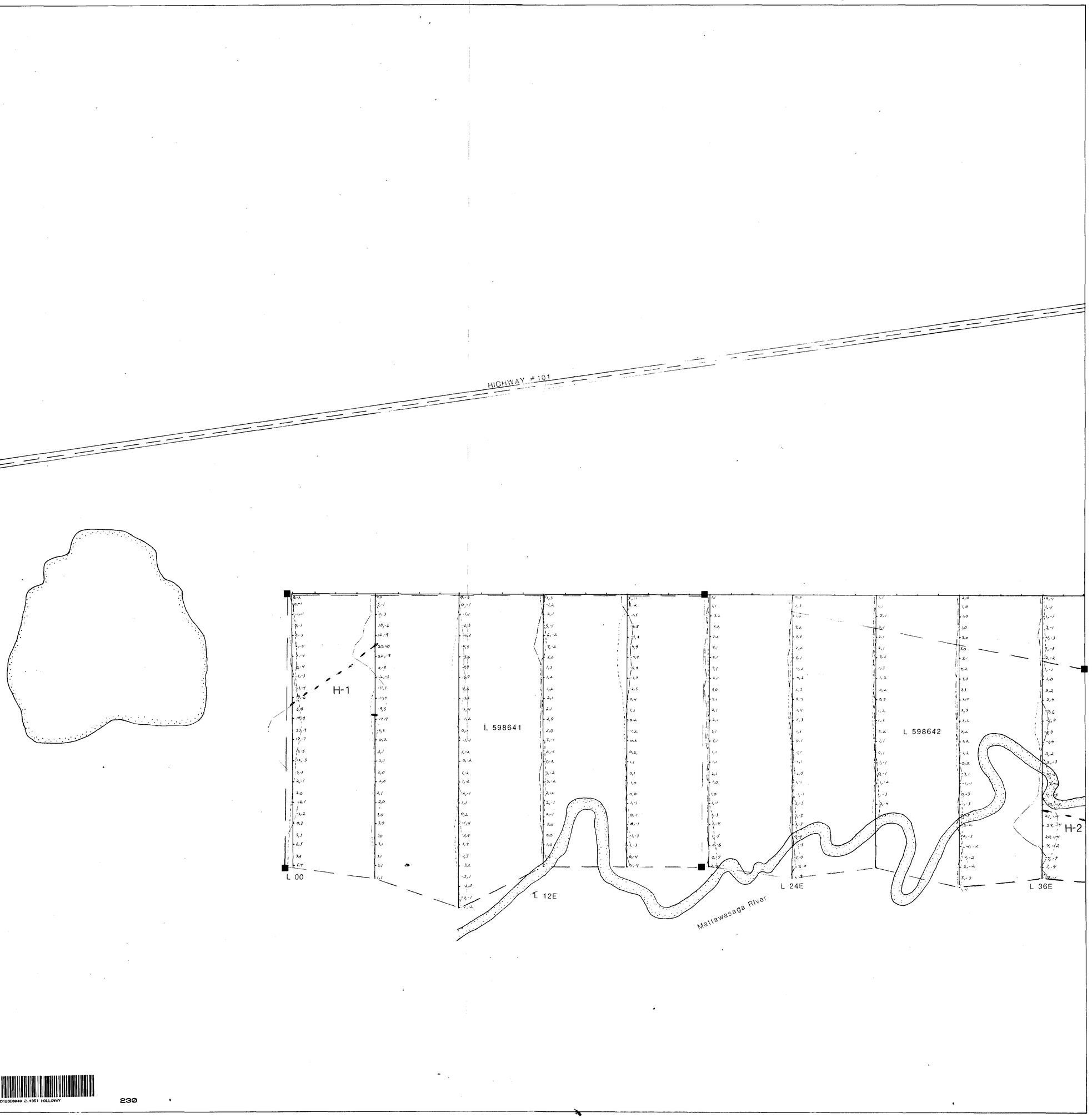
DISTRICT OF COCHRANE

200 0 200 400 600 FEET

1 INCH TO 200 FEET

DRAWN BY : P.G.A.	DRAWING No.	DATE:
APPROVED BY:		MAY 1981

2.4951



SYMBOLS

— In-phase

-·- Quadrature

Vertical Scale: 1 inch= 40%

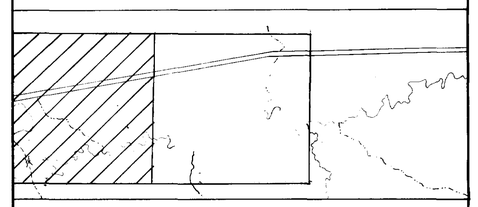
INSTRUMENT

GEONICS EM16 VLF-EM

STATION: NAA Cutler,Maine
Frequency 17.8 kHz

VLF CONDUCTOR: — — —

KEY MAP



Peter G. Gillard B.Sc

101 GROUP OF H.E. NEAL

CUTLER GROUND VLF - EM SURVEY

LOT CONC.

HOLLOWAY TOWNSHIP

DISTRICT OF COCHRANE

200 0 200 400 600 FEET

1 INCH TO 200 FEET

H.E. NEAL & ASSOCIATES LTD.

TORONTO CANADA

DRAWN BY : P.G.A.	DRAWING No.	DATE:
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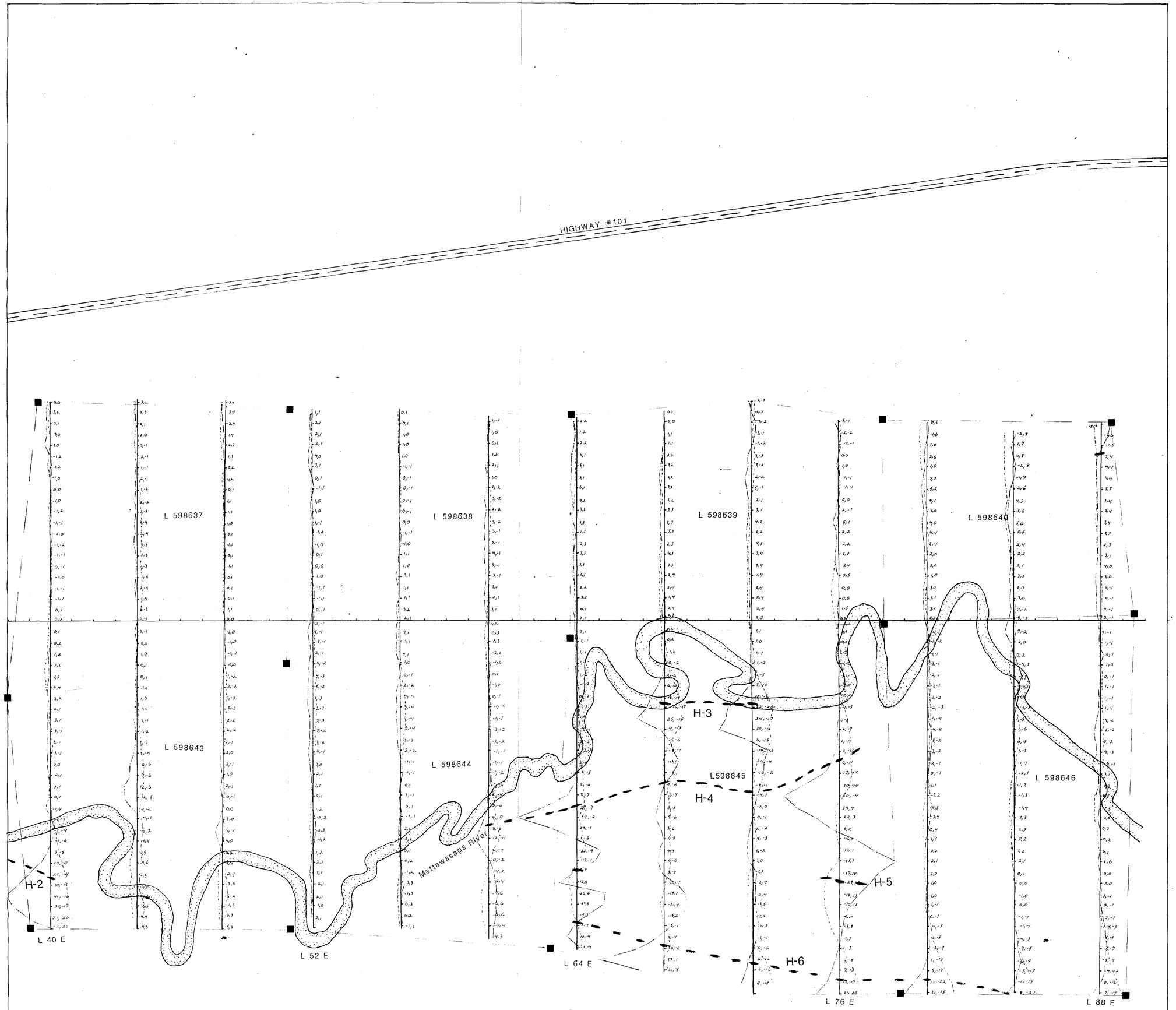
2.4951



11°W.

Mag.

SYMBOLS

In-phase

Quadrature

Vertical Scale: 1 inch= ±40%

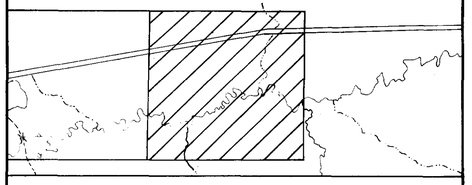
INSTRUMENT

GEONICS EM16 VLF-EM

STATION: NAA Cutler, Maine
Frequency 17.8 kHz

VLF CONDUCTOR:

KEY MAP



Peter J. Ostbert B.Sc

101 GROUP OF H.E. NEAL

CUTLER GROUND VLF - EM SURVEY

LOT CONC.

HOLLOWAY TOWNSHIP

DISTRICT OF COCHRANE

200 0 200 400 600 FEET

1 INCH TO 200 FEET

DRAWN BY : P.G.A.	DRAWING No.	DATE:
APPROVED BY:		MAY 1981

2.4951