

2. 15355

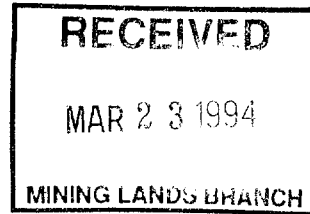


42A14NW0001 2.15355 MAHAFFY

010

REPORT ON  
GEOPHYSICAL WORK

NESBITT MAHAFFY PROJECT  
NESBITT & MAHAFFY TOWNSHIPS



JANUARY 1993

D. LONDY

*Anal. #: 2-2289*

## SUMMARY AND RECOMMENDATIONS

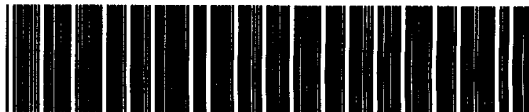
HLEM, VLF and magnetic surveys were carried out over the Nesbitt Mahaffy property in December 1992 and January 1993.

The HLEM survey outlined three bedrock conductors. Two holes on the property, drilled in 1975, did not intersect any of the conductors and all three conductors remain good drill targets.

Conductor 'A' is located along the flank of an east-west trending magnetic high anomaly which likely reflects komatiitic volcanics. This conductor should be tested by diamond drilling, both east and west of Line 200 East where a break in the magnetic anomaly occurs.

Conductor 'B' was only detected on one line at the edge of the property and more HLEM work is required to better define the zone. It is recommended that Lines 500 and 600 East be extended to 100 South and Lines 550 and 650 East be cut from 100 South to 800 North.

Conductor 'C' strikes west northwest within an area of low magnetic susceptibility which may reflect rhyolites in the south half of the property. Because of the depth of this conductor it is recommended that the south half of the property be resurveyed with HLEM using a coil separation of at least 200 metres.



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## INTRODUCTION

Magnetic, very low frequency (VLF) and horizontal loop electromagnetic (HLEM) surveys were carried out on the Nesbitt Mahaffy property during December of 1992 and January 1993.

The property is located approximately 45 kilometres north of the city of Timmins (Figure 1(a)) in the Porcupine Mining Division. It is accessed from bush roads off the old Abitibi Camp 40 Road; a detailed description of the access is given in Appendix A.

The property consists of three contiguous claims comprising eight 40 acre claim units, 4 units in Nesbitt Township and 4 units in Mahaffy Township (Figure 1(b)). The claims are numbered as follows:

<u>CLAIM #</u>	<u># OF UNITS</u>	<u>DESCRIPTION</u>
P1189177	3	Mahaffy Twp.
P1189178	1	Mahaffy Twp.
P1189179	4	S1/2, Lot 12, Con I, Nesbitt Twp.

The author of this report carried out the magnetic and VLF surveys and was assisted by B. Pigeon in the HLEM survey.

## PREVIOUS WORK

Other than regional geological compilation maps of the general Timmins area, the only geological maps available for the area are preliminary maps for Mahaffy

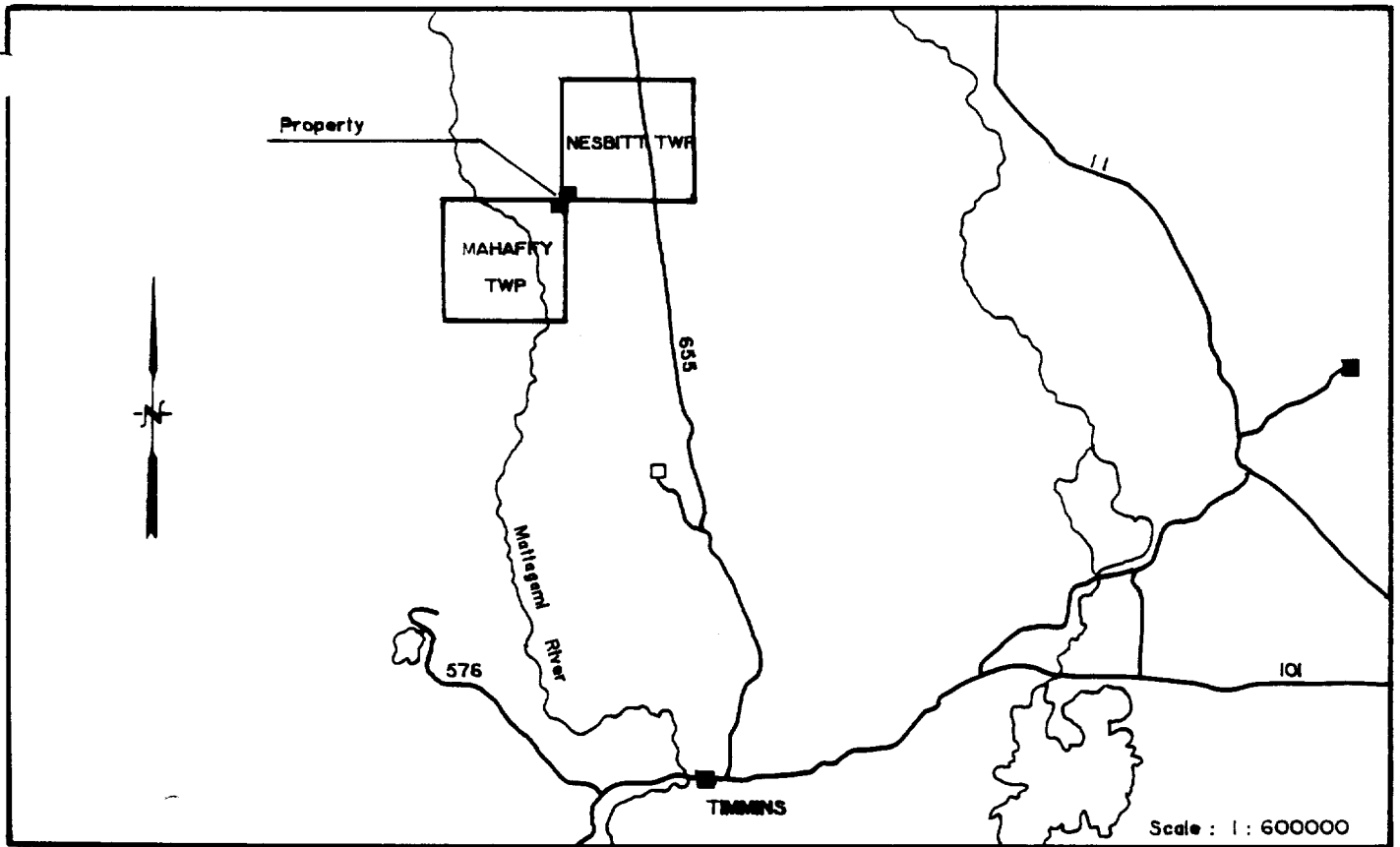


Figure 1(a) : Location Map

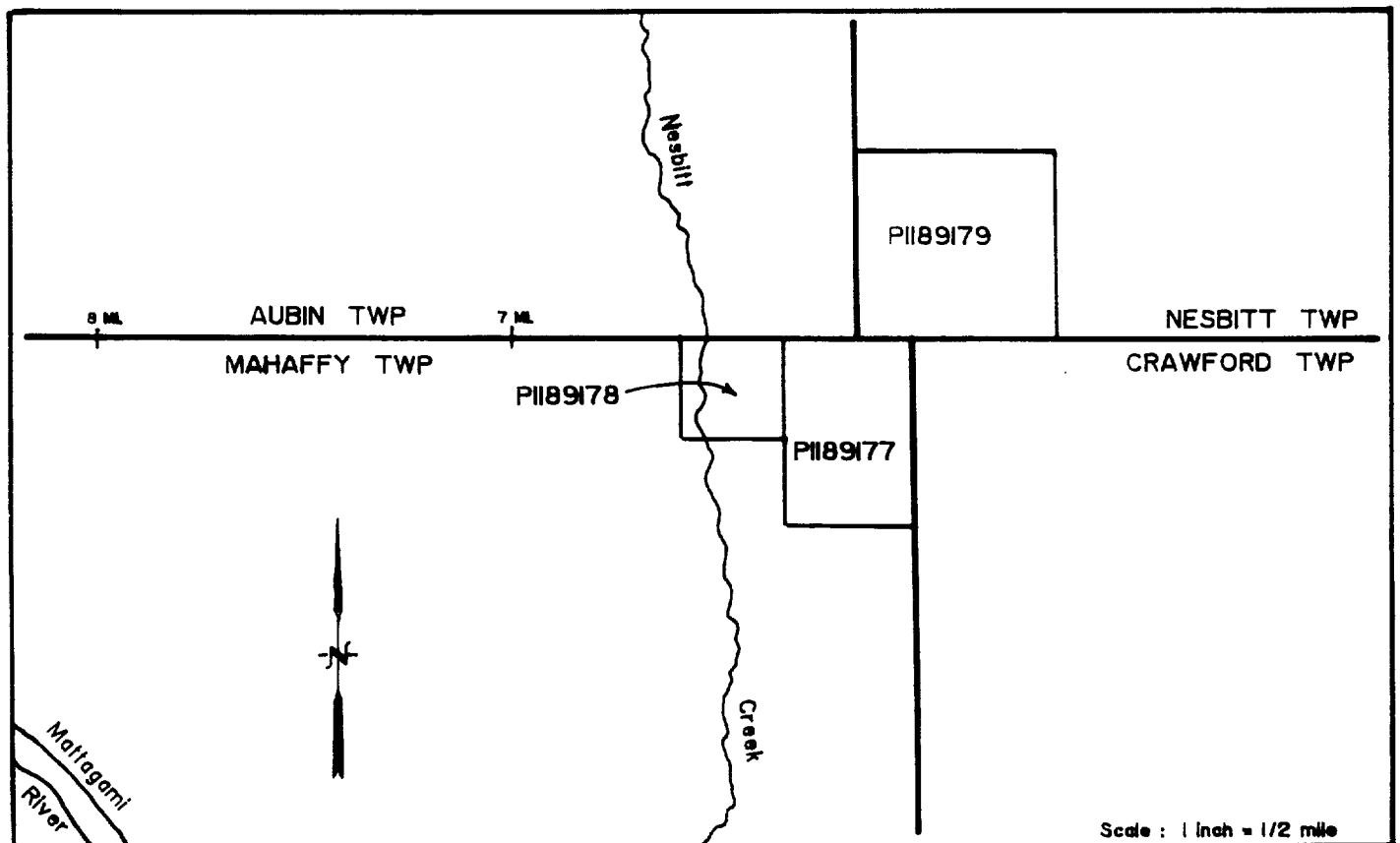


Figure 1(b) : Claim Map

Township (Bright and Hunt, 1972; Hunt and Maharaj, 1980). In 1988, the Ontario Geological Survey (OGS, 1988) conducted a combined airborne magnetic and electromagnetic survey for the Timmins area, which provides a sound geophysical base the general Timmins area; the survey included the Nesbitt-Mahaffy claim group.

Previous exploration work on the property (Table 1) has been confined to the 4 claim units in Nesbitt Township and consists of the following:

In 1964, Ghislau Mining Corporation Ltd. carried out magnetic and vertical loop electromagnetic (VLEM) surveys along north-south lines spaced every 300 feet. The magnetic survey was run with an Askania vertical field magnetometer and the VLEM survey was run with a Sharpe SE-200 unit. The EM survey detected a number of conductors on the flanks of an east west trending magnetic high anomaly. A horizontal loop EM survey was recommended, however none was undertaken.

In 1965, Canadian Aero Mineral Surveys Limited flew a combined EM and magnetic survey for Cincinnati-Porcupine Mines Ltd. in the northern part of

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1974	TEMCO MINES LIMITED	VLF	75-1,75-2	1681
1965	CININNATI PORC. MINES LTD.	AMAG,AEM		
1964	GHISLAU MTNING CORP. LTD.	MAG,VLF		829

Table 1. Summary of previous assessment work.

Mahaffy and southern part of Aubin Townships. Part of the survey extended into the southern part of the claims in Mahaffy Township.

In 1975, Temco Mines Limited conducted a VLF survey and drilled two 500 foot diamond drill holes in the southeast part of claim P1189179, intersecting mainly basalt and gabbro with minor porphyry. One 5 foot section of gabbro, containing disseminated pyrrhotite with minor chalcopyrite, assayed 0.4 percent Cu. Bleaching (silicification?) is reported throughout a 60 foot section of basalt. No conductors were intersected in either of the holes to explain airborne EM anomalies on the property.

#### **GENERAL GEOLOGY**

Little is known of the stratigraphic setting of the property due to a general lack of exploration work on the claim group and surrounding area. Two holes, drilled by Temco Mines Limited in 1974, indicate that the claim in Nesbitt Township is mainly underlain by basaltic volcanics and gabbro. Regional interpretation suggests that the rhyolites extending into the south part of the property in Mahaffy Township (Bright and Hunt, 1972) are possibly correlative with the Kidd Creek rhyolites.

#### **SURVEY DESCRIPTIONS**

An east-west base line, designated 0 North, was established along the north edge of Mahaffy Township and the south edge of Nesbitt Township. North-south



grid lines were cut every 100 metres and picketed every 20 metres. The base line at 0 North and tie lines at 800 North and 800 South were picketed every 25 metres. A total of 12 kilometres of line were covered in each of the surveys.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin II. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field; the depth of penetration is approximately half of the coil separation. Readings were taken every 20 metres along all of the north-south lines using a coil separation of 160 metres and frequencies of 444 and 1777 Hertz.

The magnetic readings were taken every 10 metres with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total magnetic field to an accuracy of 0.1 gammas. Diurnal variations were monitored every 12 seconds with a Scintrex MP-3 base station magnetometer. The base station was located at 40 West on Tie Line 800 South; the base value at this point, to which all other readings were corrected, is 58500 nT.

The VLF-EM survey was carried out with a Crone Radem which measures the dip angle of the vertical field. The transmitter station used was Cutler, Maine which operates at a frequency of 24.0 kHz. The sample interval in the VLF survey was 20 metres.

## **HLEM RESULTS**

The results of the HLEM survey are given in maps 1 and 2 at a scale of 1:5000. The profile scale on both maps is 1 cm=20%. Three bedrock conductors were detected in the survey.

Anomaly 'A' strikes east west through the middle of claim 1189179 in Nesbitt Township. The source of the anomaly, between Lines 400 and 800 East, is a narrow conductor at a depth of approximately 40 to 50 metres. The conductivity of the source is fair to good (Table 2) and the dip is to the south. The very high conductivity and greater depth calculated on Lines 0 to 300 East are due to an inversion of the quadrature component and do not accurately describe the bedrock conductor. This inversion is more pronounced in the high frequency results and is due to a very conductive overburden layer west of 300 East.

Anomaly 'A' is located along the north flank of a magnetic high on Lines 300 to 800 East. To the west of a break in the magnetic anomalies at 200 East the conductor changes strike slightly to west southwest and is located along the south flank of a magnetic high.

Anomaly 'B' is located at 90 North on Line 600 East. The source of the anomaly is a very good conductor at a depth of 58 metres (Table 3). The width

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
0 E	315 N	narrow	-13	-5	61	62	S dip
100 E	335 N	10	-12	-4	69	80	S dip
200 E	375 N	10	-16	-4	59	110	vertical
300 E	370 N	15	-20	-4	51	124	vertical
400 E	380 N	narrow	-7	-6	48	9	S dip
500 E	390 N	narrow	-9	-10	40	11	S dip
600 E	395 N	narrow	-13	-12	38	14	
700 E	380 N	narrow	-17	-17	38	21	S dip
800 E	365 N	narrow	-12	-6	53	23	S dip

**Table 2:** Anomaly 'A' Interpretation, 444 Hz, 160 metre coil separation.

and dip of the conductor can not be determined since the south half of the anomaly is incomplete. The fact that hole 75-2, drilled by Temco Mines Limited, did not intersect the conductor suggests that it dips to the south, similar to conductor 'A'.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
600 E	90 N	?	-14	-6	58	53	

**Table 3:** Anomaly 'B' Interpretation, 444 Hz, 160 metre coil separation.

Anomaly 'C' strikes west northwest through the middle of claim 1189177 in Mahaffy Township. The source of the anomaly between Lines 0 and 200 East is a very good conductor at a depth of approximately 60 to 80 metres (Table 4). The

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
300 W	320 S	narrow	-3	-1	96	27	
200 W	370 S	narrow	?	?	?	?	
100 W	350 S	narrow	?	?	?	?	
0 W	390 S	20	-7	-4	80	30	
100 E	430 S	20	-9	-6	64	23	
200 E	470 S	20	-10	-6	64	27	

**Table 4:** Anomaly 'C' Interpretation, 444 Hz, 160 metre coil separation.

width of the conductor is at least 20 metres and the dip is close to vertical. The anomaly is difficult to interpret on Lines 100 to 300 West because of the low amplitude of the anomaly and these lines should be resurveyed with a larger coil separation.

#### **VLF-EM RESULTS**

The results of the VLF-EM survey are given in map 3, at a scale of 1:5000; the data are profiled at a scale of 1cm=20.

The readings over most of the property are uniformly low, due to the thick overburden cover. A weak VLF anomaly coincides with HLEM anomaly 'B', however the source of most of the weak anomalies on Lines 400 to 800 East were not detected in the HLEM survey and are likely surficial. The VLF anomalies in this area were the targets of holes 75-1 and 75-2, drilled by Temco Mines Limited in 1975; no conductors were intersected.

#### **MAGNETIC RESULTS**

The magnetic results are posted and contoured every 100 nT on Map 4 at a scale of 1:5000. A colour image of the total magnetic field is given in Figure 2 at a scale of 1:12,500.

A linear anomaly, up to 5800 nT above background strikes east-west between 300 and 800 East at approximately 300 North. The steeper gradient and related magnetic low on the north side indicate that the source of the anomaly dips to

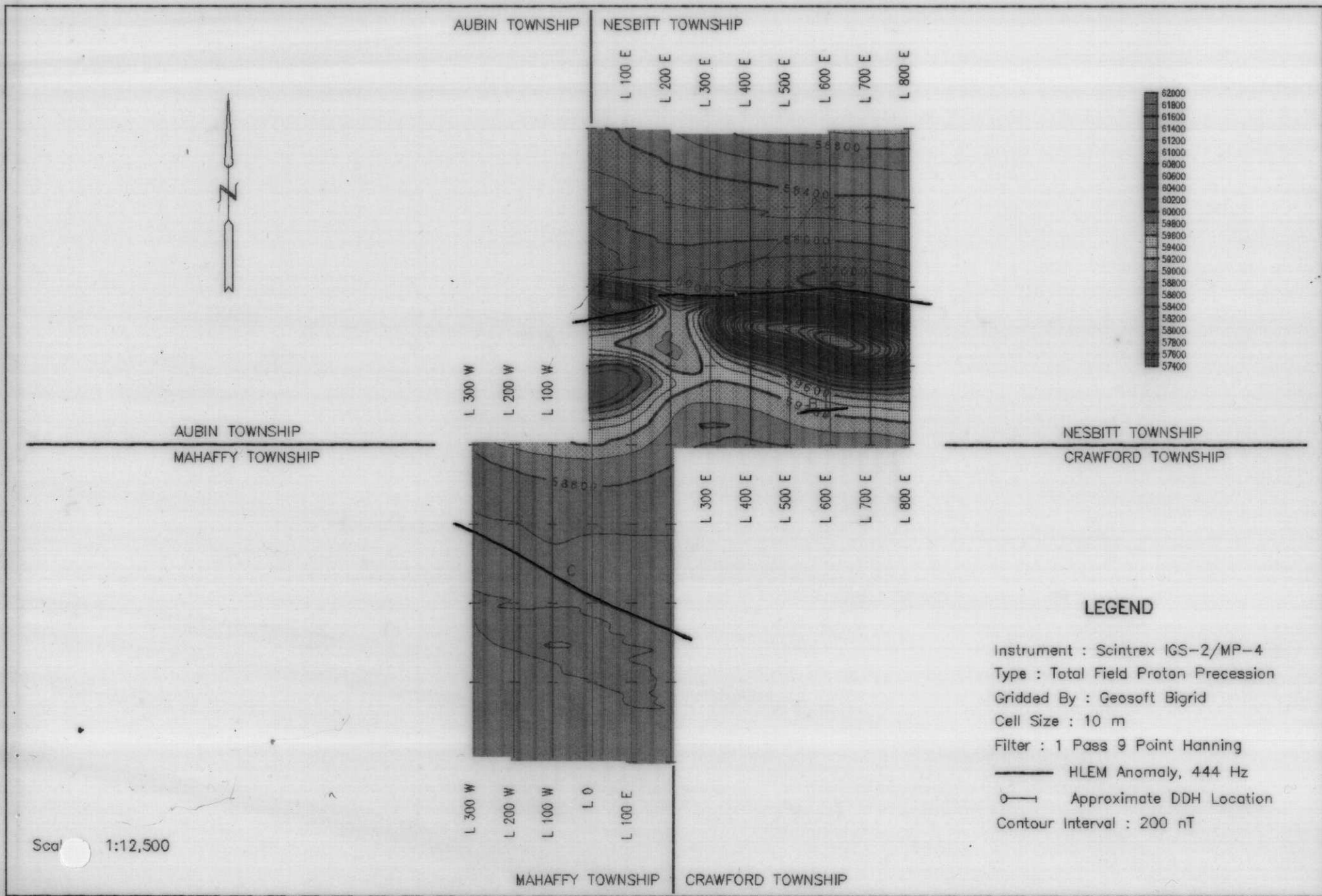


Figure 2 : Colour Image of Total Magnetic Field

the south. This agrees with dips interpreted from EM anomaly 'A' which is located along the north flank of the magnetic high. An area of low magnetic field along Line 200 East separates this anomaly from two other linear high anomalies at approximately 150 and 350 North on Lines 0 and 100 East; the source of all three anomalies is likely komatiitic volcanics. To the north of these anomalies the magnetic field increases in response to a source north of the property.

The magnetic field in the south half of the property, in Mahaffy Township, is more uniform. Conductor 'C' is located within an area of low magnetic field which may reflect rhyolites. A broad linear area of slightly higher susceptibility, to the south and parallel to conductor 'C' is likely more basic volcanics.

MARCH 21/94  
DATE

Douglas Londry  
D. LONDRY

## REFERENCES

**BRIGHT, E.G. and HUNT, D.S., 1972**

Mahaffy Township; Ontario Department of Mines and Northern Affairs, Prelim Map P.740, scale 1 inch to 1/4 mile.

**HUNT, D.S. and MAHARAJ, D., 1980**

Mahaffy Township; Ontario Geological Survey, Prelim Map P.740 (rev), scale 1 inch to 1/4 mile.

**ONTARIO GEOLOGICAL SURVEY, 1988**

Airborne electromagnetic and total intensity magnetic survey, Timmins Area; by Geoterrex Limited, for Ontario Geological survey, Map 81079, scale 1:20000.

APPENDIX A



**Access to Mahaffy/Nesbitt Property**mileage

0. Country Style Donut Shop at junction of Highways 655 & 101 - head north along Highway 655.
- 22.0 Km Junction of Kidd Creek Minesite road and Highway 655 - turn right and continue north along 655.
- 40.4 Km Hydro Dam road - turn left heading west.
- 43.3 Km Old Abitibi Camp 40 Road - stay to right heading north.
- 44.3 Km Site of the old Camp 40.
- 45.4 Km Turnoff to Hydro Dam - keep going north on Camp 40 Road. In the winter a snowmobile must be used beyond this point.
- 45.7 Km 'Y' in the Camp 40 road - keep to the left heading west. In summer a 4-wheel drive vehicle is recommended beyond this point.
- 51.0 Km Junction with smaller logging road - turn right onto this road heading north.
- 53.0 Km As far as you can drive in the summer, at 200 South, 200 West on established grid. East west bush roads at approximately 200 and 400 North allow access to the east side of the property in the winter by snowmobile.



Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.15355

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>DR. D.R. PYKE</b>		Client No. <b>184975</b> <b>298407</b>
Address <b>31 DELAIR CRES., THORNHILL, ONTARIO L3T2M3</b>		Telephone No. <b>(416) 881-2825</b>
Mining Division <b>PORCUPINE</b>	Township/Area <b>MAHAFFY, NESBITT TWPS</b>	M or G Plan No.
Dates Work Performed	From: <b>JUNE 1/92</b>	To: <b>JANUARY 30/93</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
Geotechnical Survey	<b>LINECUTTING, MAGNETIC, VLF-EM, HLEM</b>
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

**RECEIVED**  
MAR 23 1994  
MINING LANDS BRANCH

**RECORDED**  
MAR 21 1994  
Receipt \_\_\_\_\_

Total Assessment Work Claimed on the Attached Statement of Costs \$ **1980.00**

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>DOUGLAS LONDREY</b>	<b>547 LOACH'S RD. SUDBURY, ONT P3E 2R3</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>MARCH 21/94</b>	Recorded Holder or Agent (Signature) <i>Douglas Londrey</i>
--	----------------------------	--

**Certification of Work Report**

I certify that the accuracy of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying <b>DOUGLAS LONDREY, 547 LOACH'S ROAD, SUDBURY, ONT P3E 2R3</b>		
Telephone No. <b>(705) 523-5479</b>	Date <b>MARCH 21/94</b>	Certified By (Signature) <i>Douglas Londrey</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$ 1980.00</b>	Date Recorded <b>MARCH 21/94</b>	Mining Recorder <i>Luft</i>	Received <b>RECEIVED</b> MAR 21 1994 <i>JB</i>
	Deemed Approval Date <b>JUNE 20<sup>th</sup> 1994</b>	Date Approved	FORCUPINE MINING DIVISION
	Date Notice for Amendments Sent		





Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9460.00039

**2.15355**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type LINECUTTING	3240	7980.
	MAG	1320	
	VLF	1320	
	HLEM	2100	
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>7980</b>

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	RECEIVED MAR 8 1994 MINING LANDS BRANCH		
	RECORDED MAR 21 1994 Receipt		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>			<b>7980.</b>
<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>			

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas faite, le ministre peut rejeter tout ou une partie des travaux d'évaluation déposés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0.50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as AGENT I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

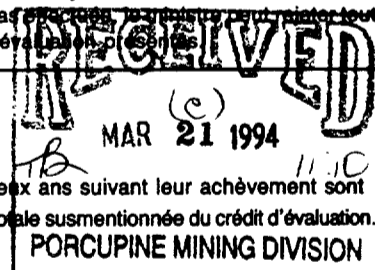
**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature Douglas Jody Date MAR. 21/94





Ontario

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

June 1, 1994

Our File: 2.15355  
Transaction #: W9460.00039

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Avenue, 1st Floor  
Timmins, Ontario  
P4N 2S7

Dear Sir/Madam:

**Subject:** APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
P.1189177 ET AL IN MAHAFFY & NESBITT TOWNSHIPS

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The assessment work credits for Geophysics, Section 14 of the Mining Act Regulations have been approved as outlined on the original submission.

The approval date is June 1, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

*lj* lj/lj

cc: Resident Geologist  
Timmins, Ontario

Assessment Files Library  
Sudbury, Ontario

NESBITT TWP

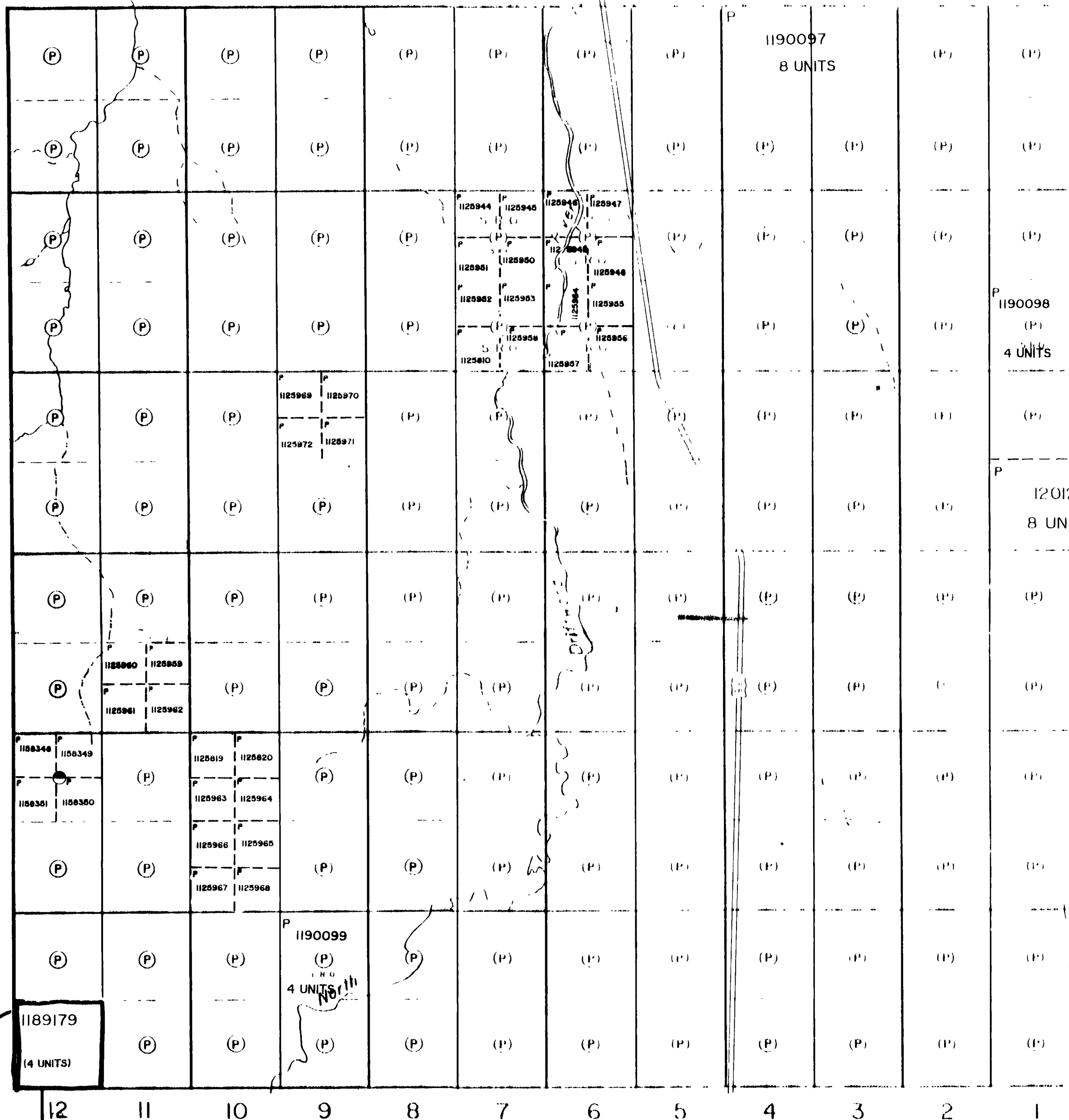
Aubin Twp.

Lennox Twp

Mahaffy Twp

Crawford Twp.

Eck Twp



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT                | SYMBOL      |
|---------------------------------|-------------|
| PATENT, SURFACE & MINING RIGHTS | (P) or ●    |
| " SURFACE RIGHTS ONLY           | S.R.O. or ○ |
| " MINING RIGHTS ONLY            | ○           |
| LEASE, SURFACE & MINING RIGHTS  | ■           |
| " SURFACE RIGHTS ONLY           | □           |
| " MINING RIGHTS ONLY            | □           |
| LICENCE OF OCCUPATION           | ▼           |
| ORDER-IN-COUNCIL                | OC          |
| RESERVATION                     | ⊙           |
| CANCELLED                       | ⊙           |
| SAND & GRAVEL                   | ⊙           |

SCALE 1 INCH = 40 CHAINS



**ISSUED**  
MAR 2 1994

TOWNSHIP PORCUPINE MINING DIVISION

NESBITT

RECEIVED

M.N.R ADMINISTRATIVE DISTRICT

MAR 23 1994

COCHRANE

MINING DIVISION

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE



Ministry of Natural Resources

Ministry of Northern Development and Mines

Date

Number

ACTIVATED AUGUST 16, 1992 BY DC

G-3546

GEM



42414W0001 2 15 95 MATAU TY

**NOTES**

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

Subdivision of this township into lots and concessions is partially annulled July 2, 63

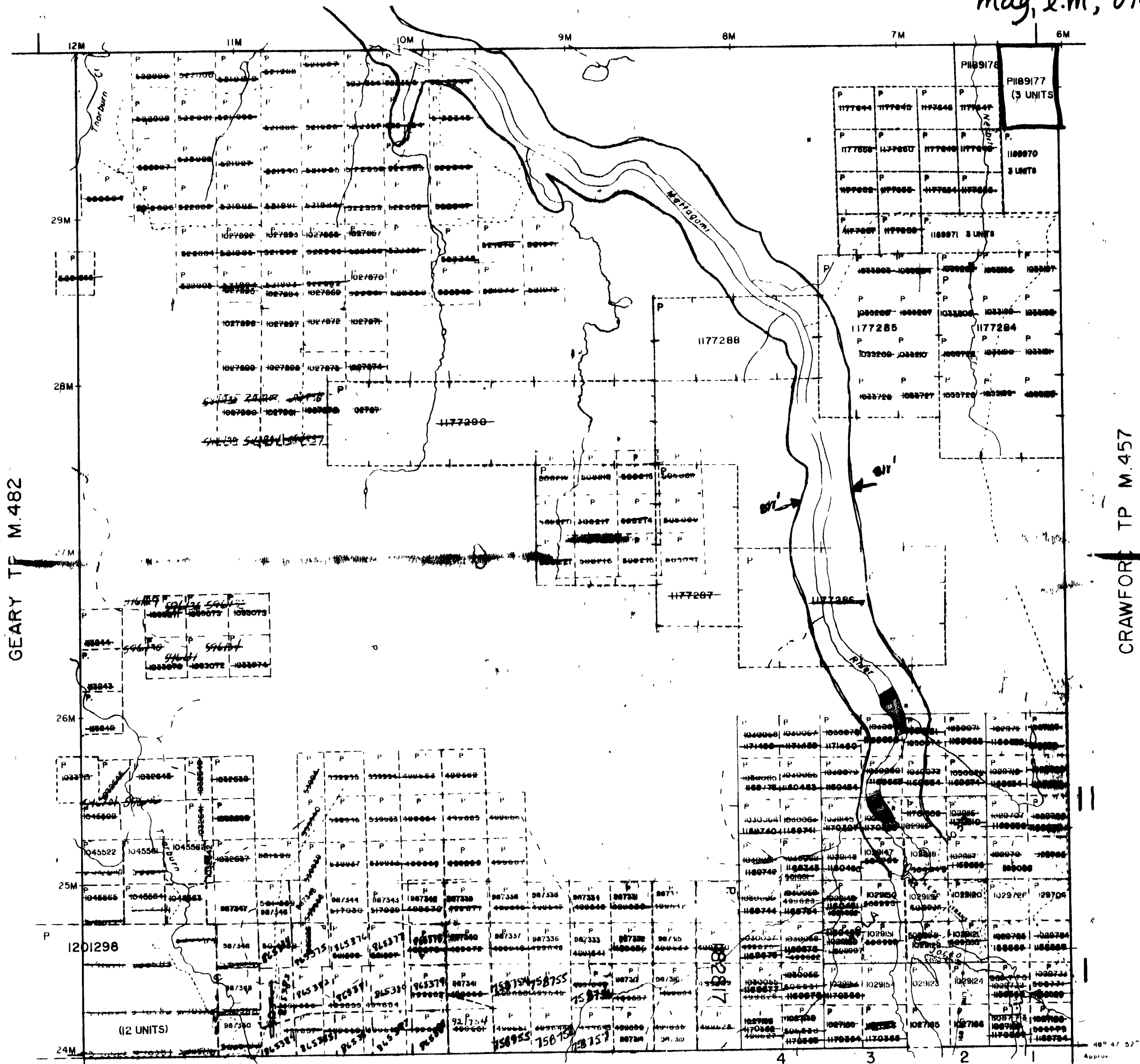
L.O. 7088 - Flooding Rights in lots 1, 2 and 3, Con. 4 to H.E.P.C.

*FLOODING RESERVATION... ELEVATION SHOWN ON MAP... RIVER RESERVATION TO DRAIN HYDRO*

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

AUBIN TP. M.407

2. 15355  
mag, e.m., vlf.

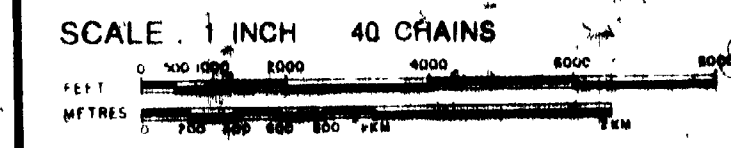


**LEGEND**

- HIGHWAY AND ROUTE NO
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES ETC
- LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKIE
- MINES

**DISPOSITION OF CROWN LANDS**

- | TYPE OF DOCUMENT               | SYMBOL |
|--------------------------------|--------|
| PATENT SURFACE & MINING RIGHTS | ●      |
| SURFACE RIGHTS ONLY            | ○      |
| MINING RIGHTS ONLY             | ◐      |
| LEASE SURFACE & MINING RIGHTS  | ◑      |
| SURFACE RIGHTS ONLY            | ◒      |
| MINING RIGHTS ONLY             | ◓      |
| LICENCE OF OCCUPATION          | ◔      |
| CROWN LAND SALE                | CS     |
| ORDER-IN-COUNCIL               | OC     |
| RESERVATION                    | ⊙      |
| CANCELLED                      | ⊘      |



ACRES HECTARES

40 **ISSUED**

TOWNSHIP MAR 22 1994

MAHAFFY

DISTRICT COCHRANE

MINING DIVISION MAR 23 1994

PORCUPINE MINING DIVISION

Received May 8/90

Ministry of Natural Resources

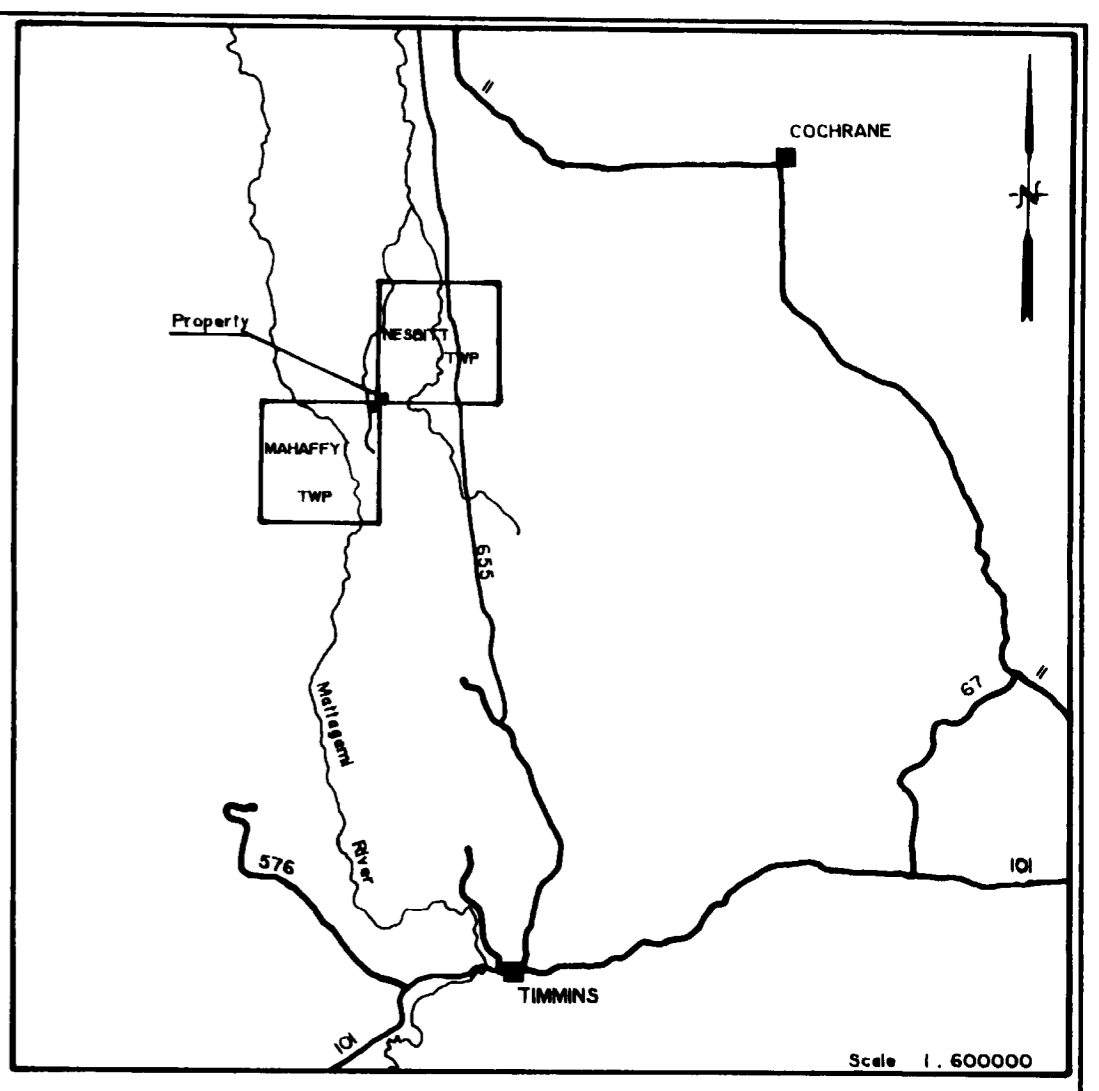
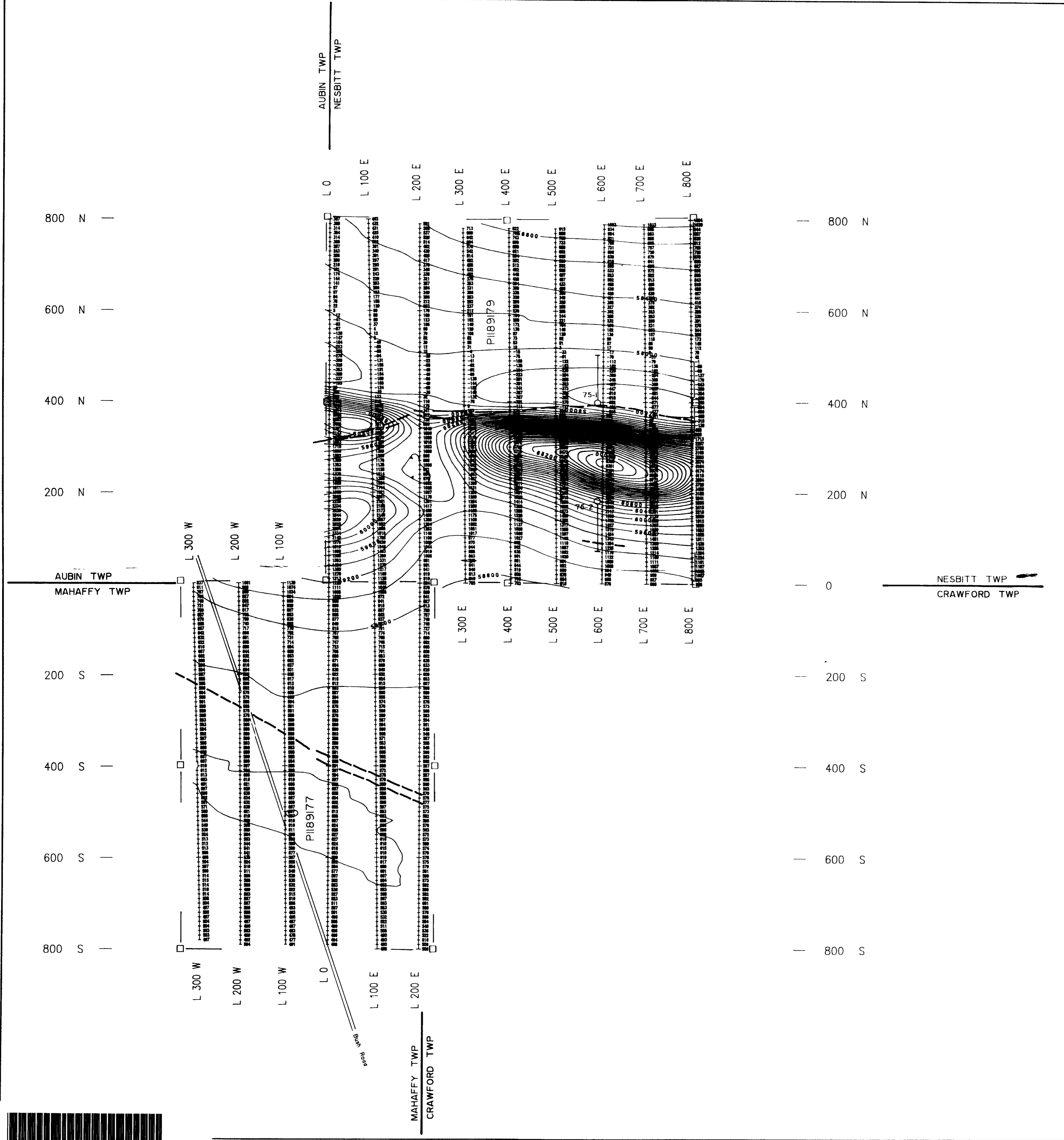
Ontario Surveys and Mapping Branch

Date MAY 3, 1973 Plan No

Whitney Block Queen's Park Toronto **M.540**

REID TP. M.575





NESBITT TWP  
CRAWFORD TWP



Instrument : Scintrex IGS-2/MP-4  
 Type : Total Field Proton Precession  
 Datum Level : 58000 nT  
 Contour Interval : 200 nT  
 Gridded By : Geosoft BIGRID  
 Cell Size : 10 m  
 Filter : 1 Pass 9 Point Hanning  
 --- HLEM Anomaly 444 Hz  
 ○ Approximate DDH Location  
 □ Claim Post

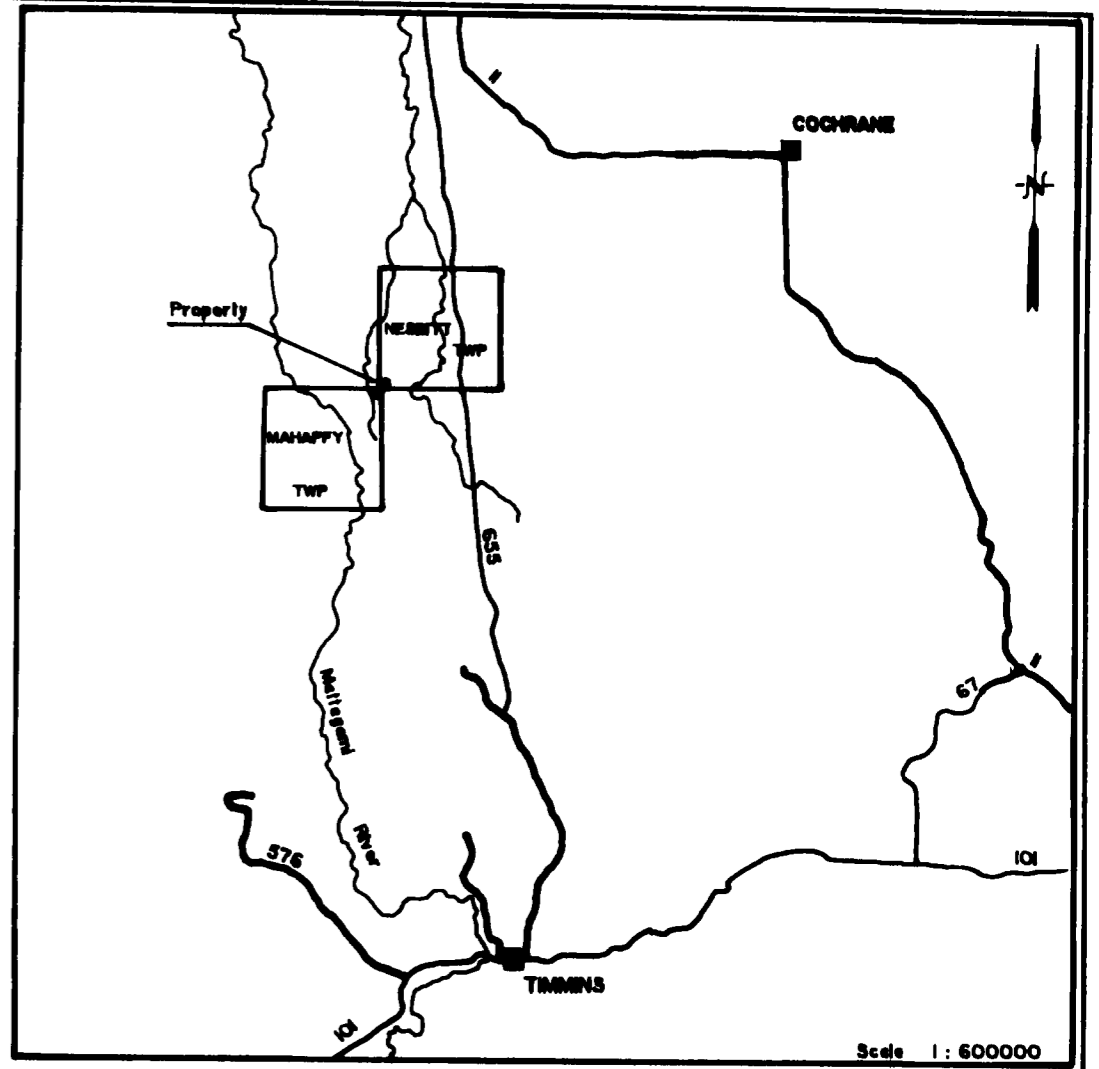
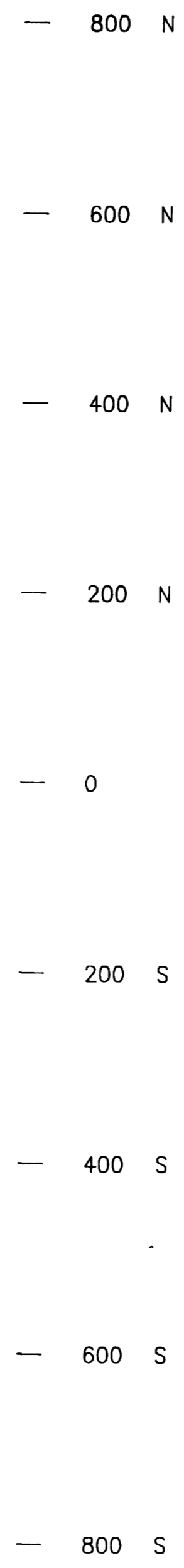
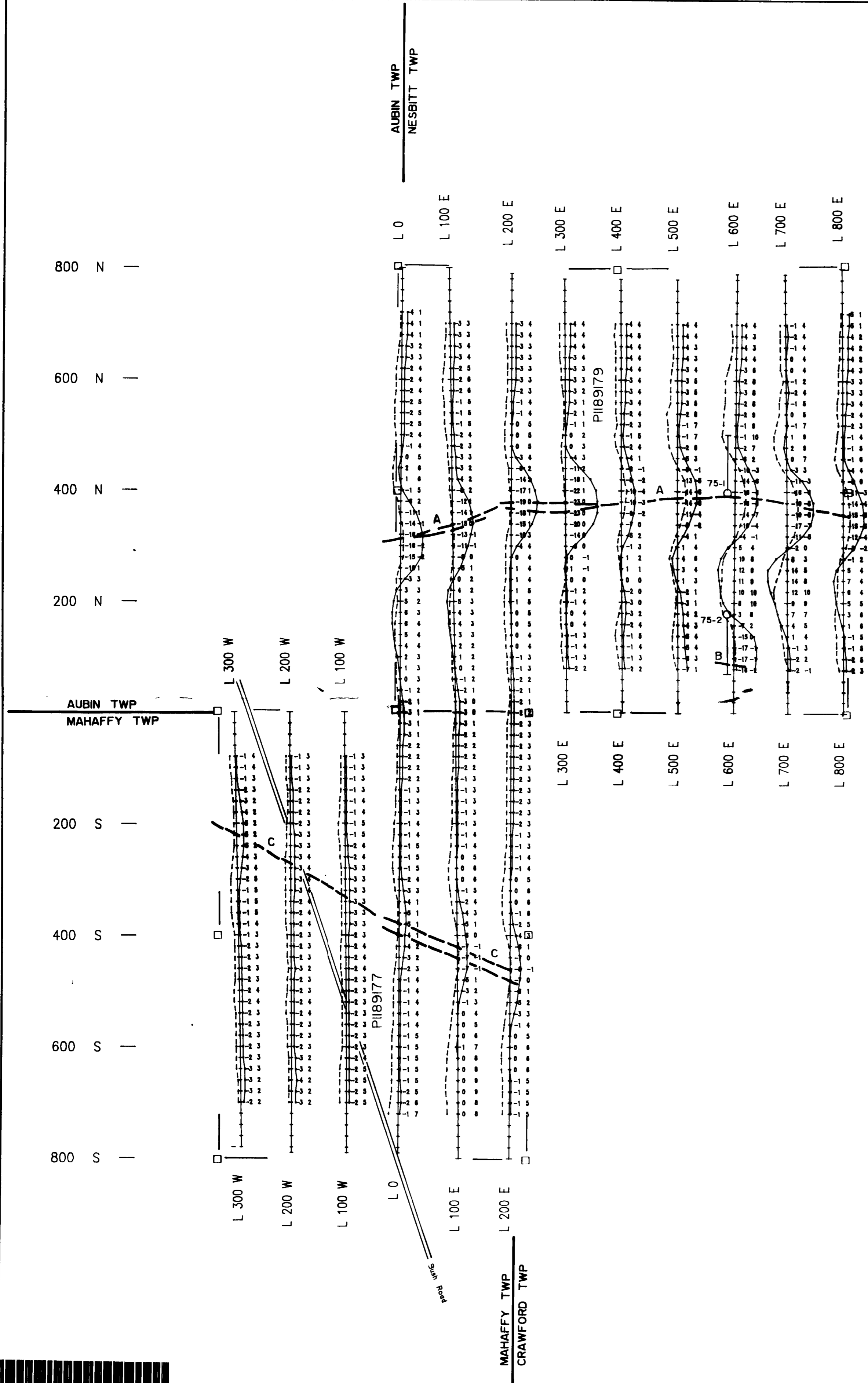
RECEIVED  
 MAR 23 1994  
 MINING LANDS BRANCH

**2. 15355**

<b>NESBITT MAHAFFY PROJECT</b>	
<b>MAGNETIC SURVEY</b>	
<b>NESBITT/MAHAFFY TOWNSHIPS</b>	
SCALE : 1: 5000	DATE : JANUARY, 1993
FILE : NES.MAG	<i>[Signature]</i>
WORK BY :	



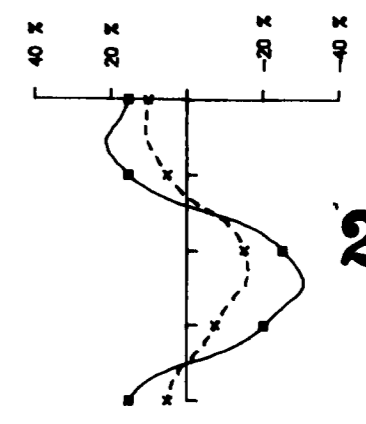




NESBITT TWP  
CRAWFORD TWP

Instrument : Apex Parametrics MaxMin 1-5  
 Frequency : 444 Hz  
 Coil Separation : 160 Metres  
 ○ — Approximate DDH Location  
 □ — Claim Post  
 — — Conductor  
 Profile Scale : 1cm = 20%

**RECEIVED**  
 MAR 23 1994  
 MINING LANDS BRANCH



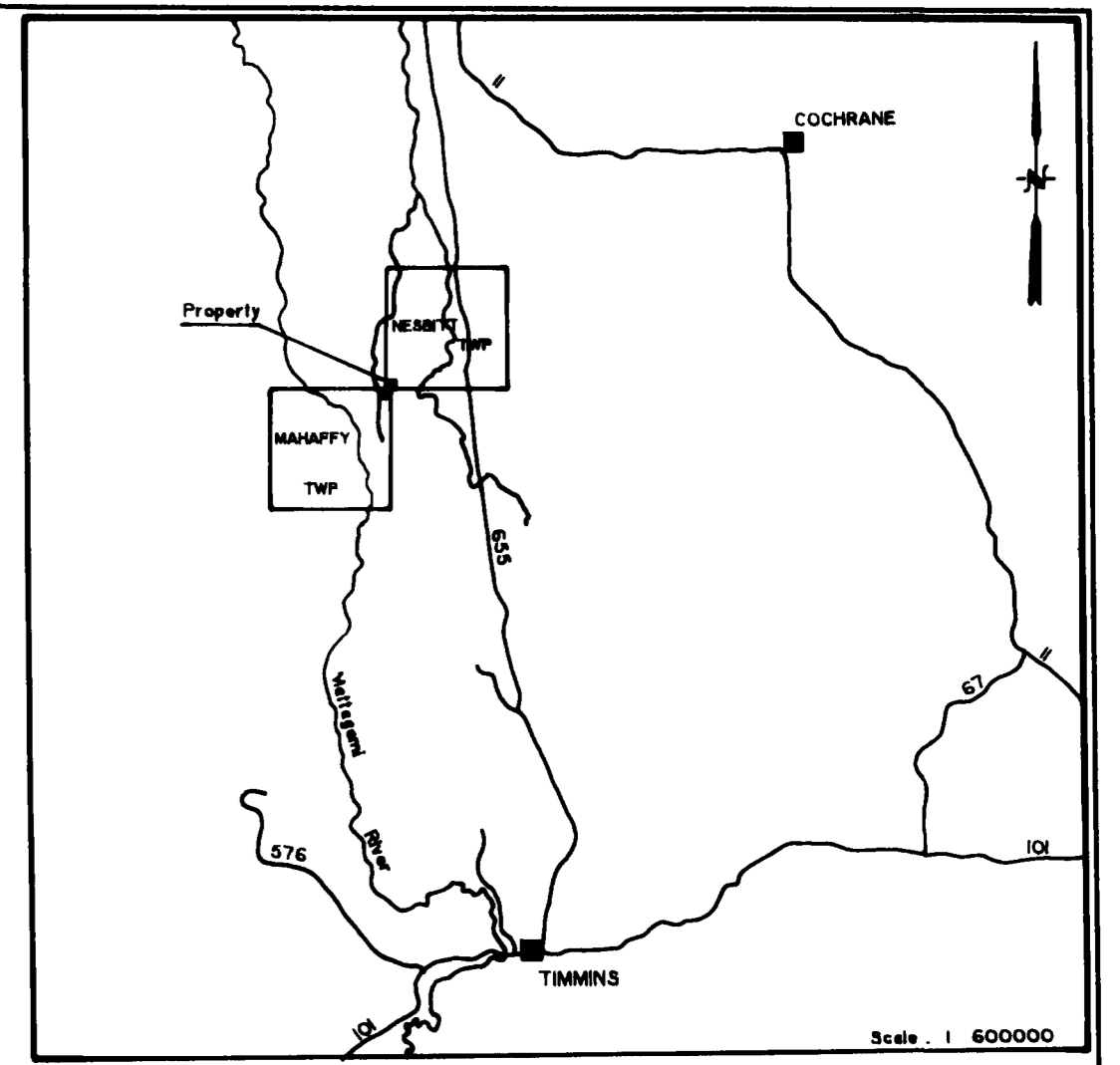
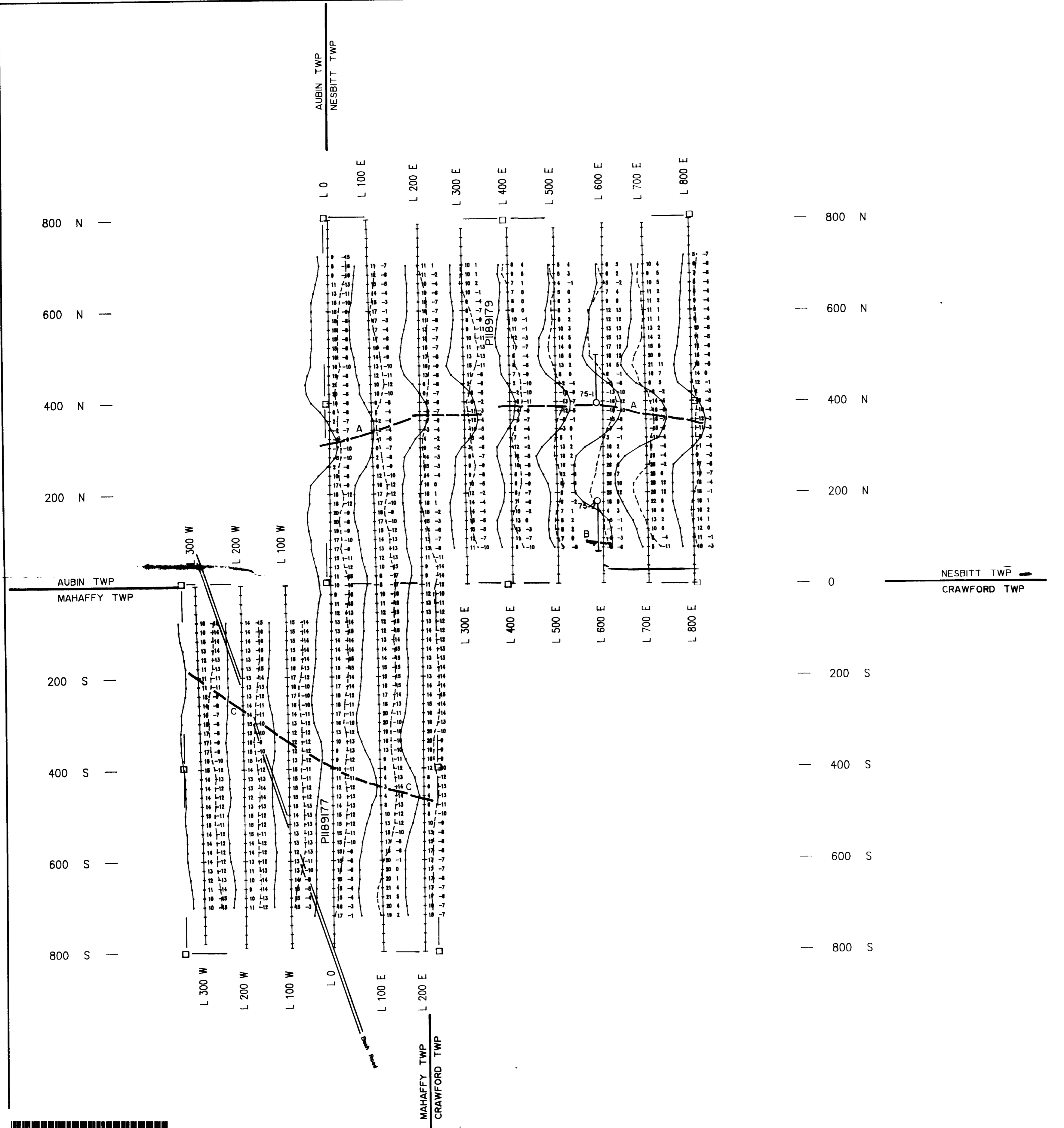
**2.15355**

In-phase —  
 Quadrature - - -



<b>NESBITT MAHAFFY PROJECT</b>	
<b>HLEM SURVEY</b>	
<b>NESBITT/MAHAFFY TOWNSHIPS</b>	
SCALE : 1: 5000	DATE : JANUARY 1993
FILE : NES.HL	<i>D. J. G. / J. D. J.</i>
WORK BY :	



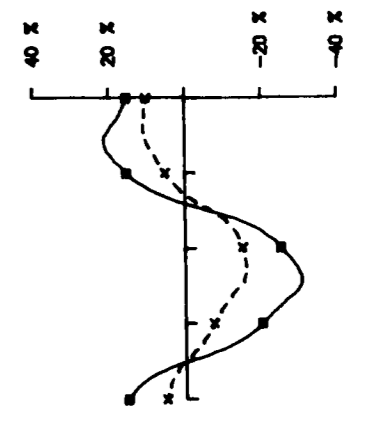


800 N  
600 N  
400 N  
200 N  
0  
200 S  
400 S  
600 S  
800 S

NESBITT TWP  
CRAWFORD TWP

Instrument : Apex Parametrics MaxMin I-5  
 Frequency : 1777 Hz  
 Coil Separation : 160 Metres  
 ○ — Approximate DDH Location  
 □ — Claim Post  
 — — Conductor  
 Profile Scale 1cm = 20%

**RECEIVED**  
 MAR 23 1994  
 MINING LANDS BRANCH



2.15355

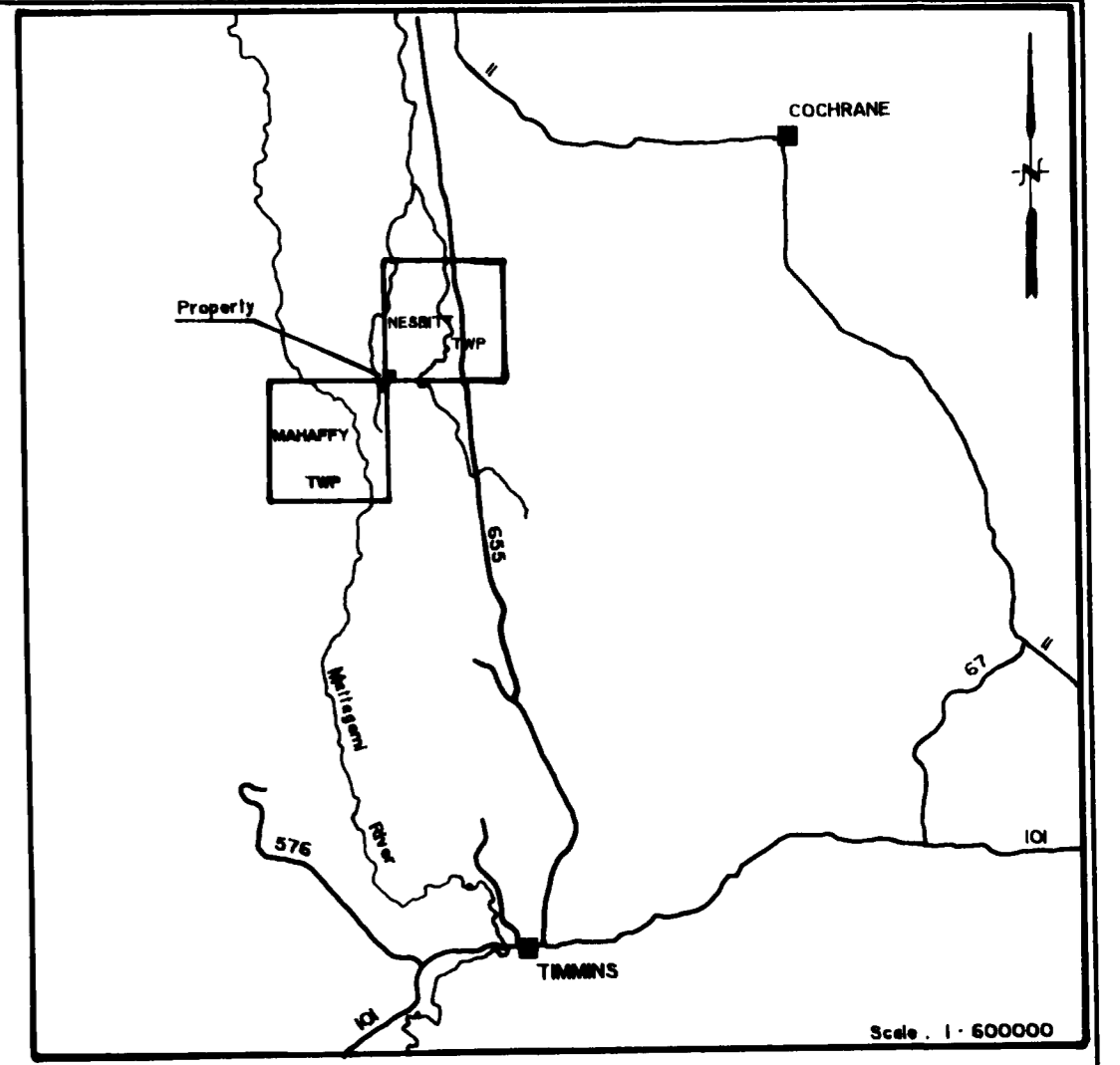
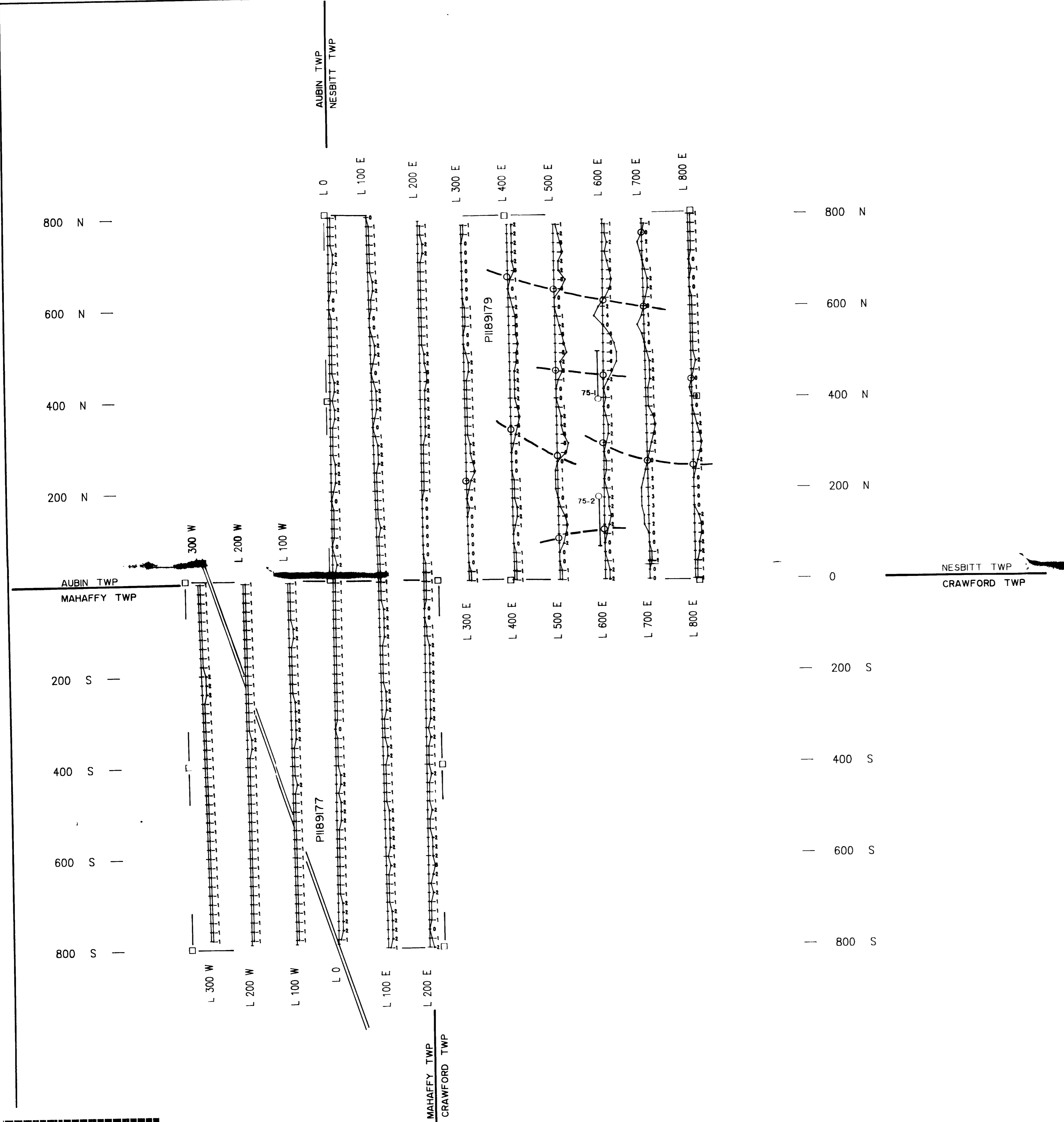
In-phase  
 Quadrature



**NESBITT MAHAFFY PROJECT**  
**HLEM SURVEY**  
 NESBITT/MAHAFFY TOWNSHIPS

SCALE : 1: 5000	DATE : JANUARY 1993
FILE : NES.HL	<i>D. J. ...</i>
WORK BY :	





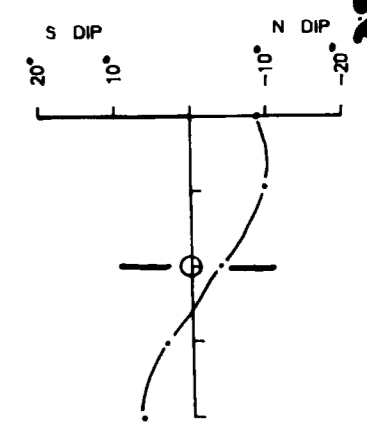
NESBITT TWP  
CRAWFORD TWP

- Instrument : Crone Radem
- Tx Station : Cutler Maine
- Frequency : 24.0 kHz
- — Approximate DDH Location
- — Claim Post
- ○ — Conductor Axis

**RECEIVED**  
MAR 23 1994  
MINING LANDS BRANCH

**2. 15355**

Profile Scale : 1cm = 10'



**NESBITT MAHAFFY PROJECT**  
**VLF SURVEY**  
NESBITT/MAHAFFY TOWNSHIPS

SCALE : 1: 5000	DATE : JANUARY 1993
FILE : NES.VLF	<i>D. J. ...</i>
WORK BY :	

