

42A125W9053 2.15126 MASSEY

010

GEOLOGICAL and GEOPHYSICAL REPORT

on

MASSEY TOWNSHIP CLAIM BLOCK

PORCUPINE MINING DIVISION

ONTARIO

by

John R. Boissoneault P. Eng.

Geologist, Engineer

David
2.740

2.15126

July 7, 1993



42A125W9053 2.15126 MASSEY

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INTRODUCTION

This is a report of a surface exploration program, which was conducted on a two claim block, in the Township of Massey, in the Porcupine Mining Division of northeastern Ontario. The claims are identified as: claim 1182726 (64 hectares) and claim 1176671 (32 hectares). The claims are contiguous and comprise a total area of 96 hectares. Both of these claims are presently registered in the name of John Raymond Boissoneault, of 670 Spruce Street North, Timmins Ontario, and both were recorded on July 25, 1991.

The claim block is located about 23 miles (37 km.) due west of the center of the city of Timmins, Ontario. They may be reached by travelling southwest along Highway 101, to a point 1 kilometer beyond the plant of Malette Timber Company, a distance of about 14 miles (22.4 km.). From this point, a good gravel road may be followed to the northwest, for a distance of 22 miles (35 km.), where it passes within 400 meters of the northeastern corner of claim 1182726. An old road, which can easily be followed on foot, crosses the center of the claim block, in a southerly direction.

The ground is generally low and flat, except for a long north-trending ridge, along the axis of the property, which rises up to 15 meters above the local ground level.

The exploration program was carried out between July 25, 1991, and September 15, 1991. The following is a schedule of events during this time:

- (1) July 25, 26 ---cut out base line ----- John R. Boissoneault
- (2) July 29 to August 12- line cutting program-- Georgex (George Fournie)
- (3) July 29 to August 14- geological mapping ---John R.Boissoneault
- (4) August 12 to 14 -- Max-Min E-M survey ---Timmins Geophysics-
- (5) August 15 to 19 -- Magnetometer survey--- John R.Boissoneault.
- (6) August 20, 21 --- visit of consultant Geologist--John L.Kirwan
- (7) August 23 to 29-- Detail E-M and magnetics--John R.Boissoneault
- (8) Sept. 14, 15 --Examination and interpretation of results-- Boisson.

(9) Sept. 2,7,8--prospecting and mapping of detail area--Boissoneault
All of the phases of the program were either supervised by or carried out
by the author of this report, John R. Boissoneault.

GEOLOGICAL SURVEY

The property lies along the western edge of the Kamiskotia Gabbroic Complex and its lower contact breccia. To the west of the mafic intrusive, is a large body of granitic rock which crosses the western boundary of the claim block. In the northwestern quarter of the property, the Gabbroic body appears to be interfingered with a large wedge of metamorphosed volcanics, which points southward towards the center of the northern claim. The east half of the property is underlain mainly by the Gabbro intrusive.

Three large diabase dikes, trending in a direction of 350 degrees (N 10 W) cross the claim block, one near the eastern boundary, one near the central axis, and one near the western boundary. A number of east-west striking faults cross the region, displacing all the rock formations.

The geological mapping was done along north-south, cut out, control lines spaced at one hundred meter intervals, from an east-west base line, and is presented on the sheet entitled "Geology, Massey Property" at a scale of one inch = one hundred meters. A considerable amount of "infill" mapping was done between the lines in the detail area and is shown on the same map. Because the overburden is generally quite thin, there is a considerable number of outcrop in the central portion of the property, and the program presents a relatively clear picture of the geological formations and structures.

The rocks of the lower part of the Kamiskotia Gabbroic Complex are well exposed in the central portion of the claim block. The feldspars have been altered to a chalky white material and the pyroxenes have been altered to amphiboles, in this area. On the geology map, it is referred to as "metagabbro"

A fragmental rock, which contains fragments of volcanic origin, as well

as fractions of felsic intrusive, lies in contact with the metagabbro to the west and grades into a grey granitic intrusive further west. This unit is referred to as "contact beccia" in this report, and has been exposed near the metagabbro in two localities, where the thin overburden has been stripped during the mapping program. One of these localities is at 60 N, 490 W, and the other is at 150 S, 420 W. In both places, zones of reddish and yellow iron oxide or "gossan" can be seen, lying in contact with the metagabbro. To the east of the northernmost of these localities, disseminations of sulfides can be seen in the metagabbro. These consist of pyrrhotite, pyrite, and minor chalcopyrite, and appear to be associated with small faults.

The large diabase dike, which crosses the center of the claim block, forms a prominent ridge along Line 375 W, between 150 S and 200 N. The rock looks like a medium grained gabbro but it can be distinguished from the Kamiskotia Complex's lower zone by its hardness, darker color and lack of extensive alteration. The intruded rocks, at the edges of the diabase, have undergone high grade metamorphism, and, in some places, resemble metavolcanics of mafic composition. Along the dike's eastern contact, there is a well developed mylonite zone, which is exposed in several places, from the base line to about 120 N. A similar zone can be seen along the western contact of the diabase dike which crosses the eastern edge of the property, in one locality.

A number of strike and dip measurements taken in the detail area, show that the western contact of the metagabbro has a strike of 340 degrees (N 20 W) and a dip of between 85 degrees and 80 degrees to the east. The central diabase dike has a similar dip and a strike of 350 degrees so that it is almost conformable to the base of the intrusive.

The dikes must have been intruded along fault planes because there is evidence of a substantial displacement along the plane of the central dike. The east side has been moved to the north for a distance of about 400 meters.

Faults

A series of east-west^v cross the claim block, causing slight displacements of all formations in a direction of north side westward. One of these may be observed near the base line on line 375 W. Here, the central dike, which is about 40 meters wide, has been displaced for about 30 meters.

The Kamiskotia Gabbroic Complex is a differentiated body about 12 Km wide (N-S) and 20 Km long (E-W), which lies at the western end of a large "greenstone" belt which crosses the Porcupine area, extending into western Quebec. It has been describe in great detail by C.T. Barrie in a report entitled "Geology of the Kamiskotia Area, 1992" The mafic and ultramafic components of this intrusive contained nickel mineralization, and several nickel and copper occurrences can be found along its southwestern contact. The altered section of the intrusive described as Metagabbro, corresponds to what Barrie calls "norite" and makes up the lower part of the intrusive.

ELECTROMAGNETIC SURVEY

In 1988, the Ministry of Northern Development and Mines released the results of an airborne electromagnetic and magnetometer survey which included the area of Massey Township (Map 81075). A Geoterrex, Geotem E.M. system was used for the electromagnetics, and four anomalous responses were received on what is now the property which is the subject of this report. Three of these lie near the center of the property and are of such intensity to be of interest (between 6 and 11 channel). Because these responses were received using north-south flight lines, and because the magnetics indicate a northwesterly trend, it was decided that a north-south grid would be used for the surface geophysics.

A horizontal loop electromagnetic survey was carried out on the claim block by Timmins Geophysics Ltd. using a Apex Parametrics MaxMin 1, at a coil separation of 100 meters. Both 444 Hz and 1777 Hz frequencies were used and a total of 8.5 kilometers were covered, by the survey. The results are

presented on two plans entitled "Massey Project, HLEM Survey", one for each frequency utilized. They are shown in profile to an accuracy of $\pm 1\%$. The profile scale is 1 cm = 10%, and the surface scale is 1 : 2000.

Only one of the airborne anomalies was located by the ground survey. It lies on line 475W about 50 meters north of the base line, and on the base line at about 425W. The MaxMin responses indicate a source of moderately strong conductivity, at a depth of 25 meters. One other anomaly was located on line 075W at 175N, but this one is interpreted as a weak conductor.

Because of the failure of the surface survey to locate the two strongest airborne anomalies, it was decided that the source of these must be striking north-south and must lie in between two of the grid line. It was therefore decided that a VLF survey be conducted along east-west lines in the area of interest. The results of this survey are discussed later under "Detail Area"

MAGNETOMETER SURVEY

The ground magnetometer survey was carried out by the author over the entire 8.5 kilometer grid, with a substantial amount of "infilling" in the detail area. A Scintrex MF-1 fluxgate magnetometer was used. This instrument measures the vertical component of the natural magnetic field at the point where the reading is taken, and is accurate to ± 5 gamma. Because of the steep magnetic gradients on the claim block and the near vertical dip of the rock formations, this instrument was quite adequate for the survey. The results are presented on a plan entitled "Surface Magnetics" at a scale of 1 in. = 50 m. The contour interval is 200 gamma with a 100 gamma contour in areas of low magnetic relief.

The diabase dikes stand out as areas of high magnetic relief where they cross the control lines with series of "bull's eye" highs and lows, in the thousands of gamma. This pattern occurs very distinctively in three places. The first of these is from the base line to 300N on line 075W, the second is from 100S to 450N on line 375W, and the third is from 300S to 100S on line

675W. There is also an indication that the central dike crosses line 275W, between 150S and 260S. In other areas the dikes lie between the control lines and are not expressed by the magnetics.

In the northwest quarter of the property, the belt of metavolcanics is clearly indicated by the contouring to the west of the central diabase dike. The magnetic relief is from 800 gamma to 400 gamma and the contour lines have a strike of from 330 degrees to 360 degrees, coming to a point at 200N on line 475W. This suggests a fold structure whose axis plunges at 350° (NORTH).

The eastern and central parts of the claim block are underlain by the metagabbro unit. In the northeastern quarter, the magnetic trend is the same as the regional strike, 310 degrees, but to the south it changes to 330 degrees. The magnetic relief of from 600 to 2000 gamma, in the east, diminishes as we move westward, probably due to the increasing intensity of alteration in the mafic intrusive. Near the contact, the magnetic readings are from 600 to 400 gamma, and the contour lines seem to parallel the contact.

Along the western edge and in the southwestern corner of the property, the granitic intrusive mass has a magnetic relief of from 400 to 1200 gamma, and the contours suggest a trend of 320 degrees. But, in the contact breccia, along the edge of the metagabbro, the infill readings show a long linear high with flanking lows, from 200N on line 575W, to 200S between lines 475W and 375W. The magnetic gradient rises sharply from a background of 800 gamma to over 1600 gamma at the axis of the anomaly, and was picked up on six cross lines. The contours suggest that the cause of the anomaly is a body with a near vertical dip, which lies within the contact breccia, parallel to the metagabbro contact. They also show that the body has been displaced by about 30 meters near the base line, north side westward.

DETAIL AREA, VLF SURVEY

The results of the VLF survey carried out in the "Detail Area" are shown

on the plan entitled "VLF SURVEY". Six east-west compass lines were cut across the detail area from 100N to 150S between lines 375W and 575W, and the survey was done using a Crone Radem receiver unit, with transmission from Annapolis Maryland, at a frequency of 21.4 kHz. This work was done by the author. The results are presented as profiles at a scale of 1 cm = 10° and have an accuracy of ± 1 degree. The conductor axis is also shown, along with the position of the axis of the magnetic anomaly and the two gossan zones, described under "Geological Survey".

The readings clearly show a zone of anomalous conductivity in excess of 250 meters long, lying within 10 meters of the axis of the magnetic high, described under "Magnetometer Survey". The gossan zones, previously referred to, lie from ten to twenty meters to the west of the conductor. The results of the VLF survey also show the displacement which has taken place near the base line due to the east-west fault.

The electromagnetic anomaly was not picked up during the HLEM survey because of the unfortunate choice of north-south line direction, except on line 475, near the base line, where it comes within range. Otherwise the conductor lies between the grid lines. The southern segment of the VLF conductor does, however, correspond closely with two airborne anomalies, one of them classified as 7-8 channel and the other as 11-12 channel.

CONCLUSIONS

Since the occurrence of coincident EM and magnetic anomalies at the base of a large mafic intrusive is a good prospect for the location of sulfide bodies containing nickel and copper, the author intends to continue exploring the property. This will be done by extending the VLF and magnetometer survey northward to 300N and southward along the western metagabbro contact.

Following this, he intends to make arrangements to carry out diamond drilling in order to test these anomalies at depth and surface stripping

in order to expose the anomalous areas, where this is possible.

SOURCES of INFORMATION

The following material was used in the preparation of this report:

- (1) Barrie C.T. --Geology of the Kamiskotia Area, Ontario Geological Survey, open File Report 5829
- (2) Ontario Geological Survey-- Compilation Series, Map 2205 entitled Timmins-Kirkland Lake Sheet
- (3) Ontario Geological Survey-- Geophysical-Geochemical Survey, Map 81075, Timmins Area, Massey Township.
- (4) Kirwan J.L.-- Letter sent to author following his visit of property dated August 22, 1991.
- (5) Ministry of Northern Development and Mines, Timmins Resident Geologist Office--Conversations with L.E. Luhta and Pam Sangster.

Respectfully submitted by:

John R. Boissoneault, P. Eng.

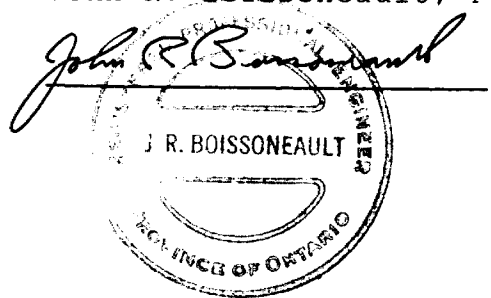
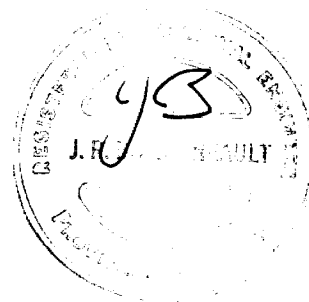


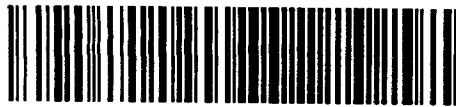


Figure 1: Outline Map of the Province of Ontario and Parts of the USA and the Province of Quebec, to Show the General Location of Massey Township.





Ontario



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Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
Willet Green Miller Centre
933 Ramsey Lake Rd., 6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.15126
Transaction #: W9360.00135

October 21, 1993

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

Dear Sir:

**RE: APPROVAL OF ASSESSMENT WORK ON MINING CLAIMS P 1182726 ET AL. IN
MASSEY TOWNSHIP.**

The Assessment Credits for GEOLOGY and GEOPHYSICS, sections 12 and 14 of the Mining Act Regulations, as listed on the above report of work, have been approved as of OCTOBER 7, 1993.

Please indicate this approval on the claim record sheets.

If you have any questions please call Clive Stephenson at (705) 670-5856.

Yours sincerely

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

CDS/ls

✓ cc Assessment Files Office
Toronto

Resident Geologist
Timmins

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.

2.15126

- 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) JOHN R. BOISSONEAULT		Client No. 109563 (706) 264-3177
Address 670 SPRUCE ST. NORTH, TIMMINS, ONTARIO P4N 6P3		Telephone No.
Mining Division PORCUPINE	Township/Area MASSEY	M or G Plan No.
Dates Work Performed From: JULY 25, 1991		To: SEPTEMBER 15, 1991

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	8.5 Km² LIVE CUTTING, MAGNETOMETER, ELECTROMAGNETIC, HLEM AND VLF, GEOLOGICAL MAPPING
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECEIVED
AUG 11 1993
MINING LANDS BRANCH

RECORDED
JUL - 9 1993
Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 10,243

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
GEORGEX (GEORGE FOURNIER)	353 RAILWAY ST., TIMMINS, ONT. (267,4526) LINE CUTTING
TIMMINS GEOPHYSICS (DOUG LONDREY)	1680 LATIMER CRESCENT, SUDBURY, ONT (523-5419) HLEM SURVEY
EARTH RESOURCES (JOHN L. KIRWAN)	1111 GOVERNMENT ROAD, PORCUPINE, ONT. (235,2777) GEOLOGY
JOHN R. BOISSONEAULT	670 SPRUCE ST. NORTH, TIMMINS ONT, MAGNETOMETER, VLF, AND GEOLOGICAL MAPPING

(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 JULY 8, 1993	Recorded Holder or Agent (Signature) <i>John R. Boissoneault</i>
--	-----------------------------	---

Certification of Work Report

I certify that I have a personal knowledge 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 JOHN R. BOISSONEAULT, 670 SPRUCE ST. NORTH, TIMMINS, ONT.		
Telephone No. (705) 264-3177	Date JULY 8, 1993	Certified By (Signature) <i>John R. Boissoneault</i>

For Office Use Only

Total Value Cr. Recorded \$ 10,243.00	Date Recorded July 9/93	Mining Recorder <i>White</i>	<div style="border: 2px solid black; padding: 5px;"> <p>RECEIVED JUL 9 1993 TB (C) 2:45</p> </div>
	Deemed Approval Date OCT. 7/93	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1182726	4
	1176671	2
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
6,829 ⁸	6,829 ⁸
3,414 ⁸	3,414 ⁸
10,243	10,243
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	
Total Reserve	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Date
Signature	Date

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^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour 20 DAYS Main-d'oeuvre	3000	
	Field Supervision 1200 Supervision sur le terrain	1800	4800
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type LINE CUTTING	2,283	
	HLEM SURVEY ELECTROMAGNETIC	1,300	
	CONSULTING	1,200	
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			9583

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	Type A WHEEL DRIVE 88 KM X 30 TRIPS	660	
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			660
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			1917
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			11493
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			11493

RECORDED
JUL - 9 1993
Receipt _____

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 effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

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 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	Evaluation totale demandée
	x 0,50 =

PROVINCIAL MINING DIVISION
RECEIVED

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 RECORDED HOLDER I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

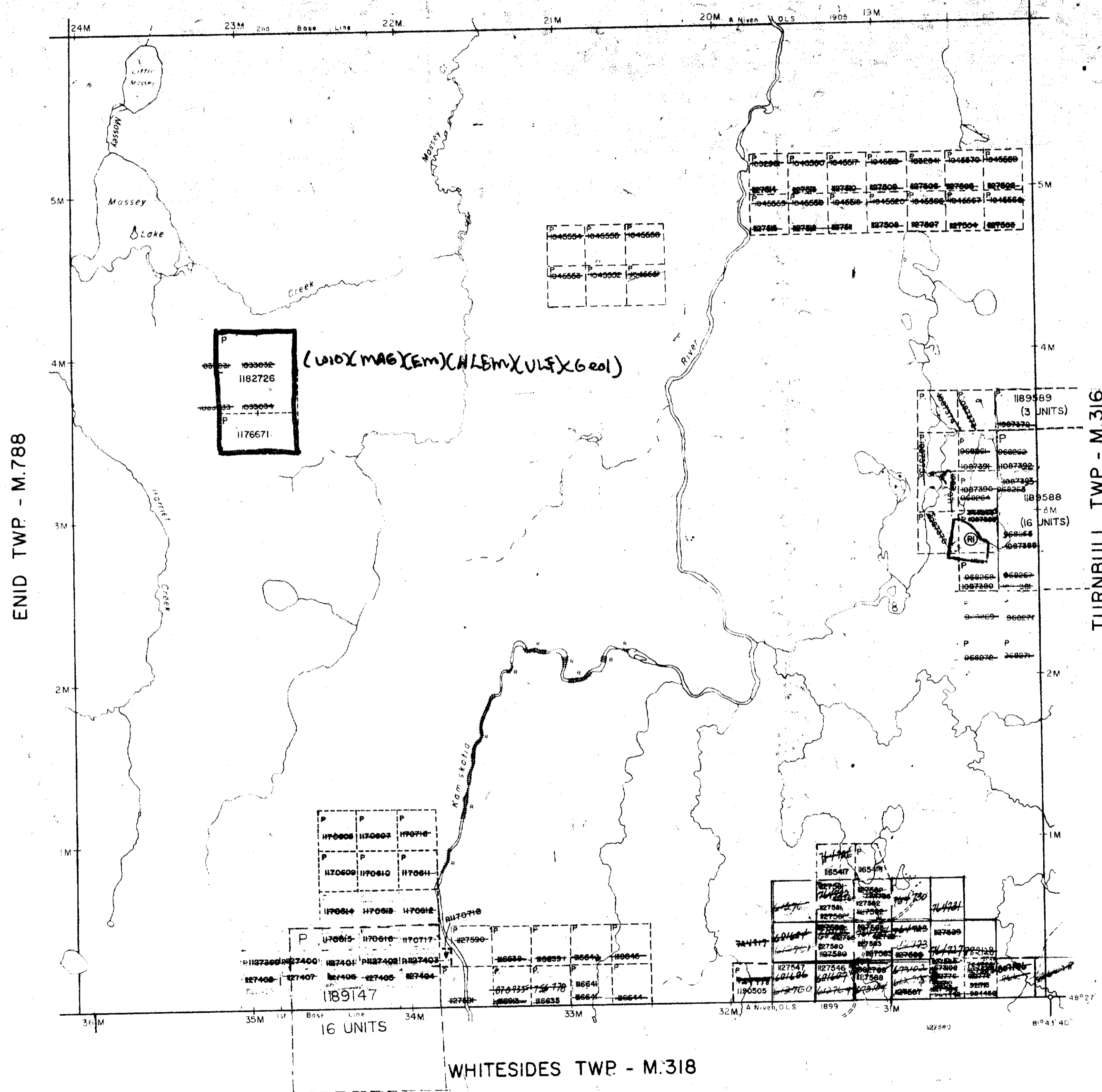
J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

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

à faire cette attestation.

Signature John R. Bouchard Date July 9, 1993

CÔTÉ TWP - M.271



THE TOWNSHIP
OF
MASSEY
DISTRICT OF
COCHRANE
PORCUPINE
MINING DIVISION

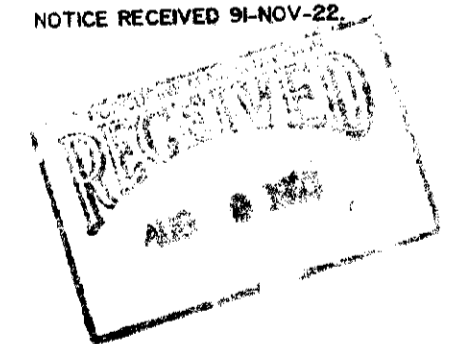
SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	(CS)
LEASES	(L)
LOCATED LAND	(LOC)
LICENSE OF OCCUPATION	(L.O.)
MINING RIGHTS ONLY	(M.R.O.)
SURFACE RIGHTS ONLY	(S.R.O.)
ROADS	(---)
IMPROVED ROADS	(=)
KING'S HIGHWAYS	(=)
RAILWAYS	(=)
POWER LINES	(=)
MARSH OR MUSKEG	(X)
MINES	(C)
CANCELLED	(C)

NOTES

- 400' surface rights reservation around all lakes and rivers.
- THIS TWP SUBJECT TO FOREST ACTIVITY IN 1992/93 - FURTHER INFORMATION AVAILABLE ON FILE.
- (P) PENDING APPLICATION UNDER THE AGGREGATE RESOURCES ACT. NOTICE RECEIVED 91-NOV-22.



PLAN NO. **M.296**
Rec'd 02/1/92

DEPARTMENT OF MINES
— ONTARIO —

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, MINES OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



CÔTÉ TWP - M.271

THE TOWNSHIP OF
OF
MASSEY

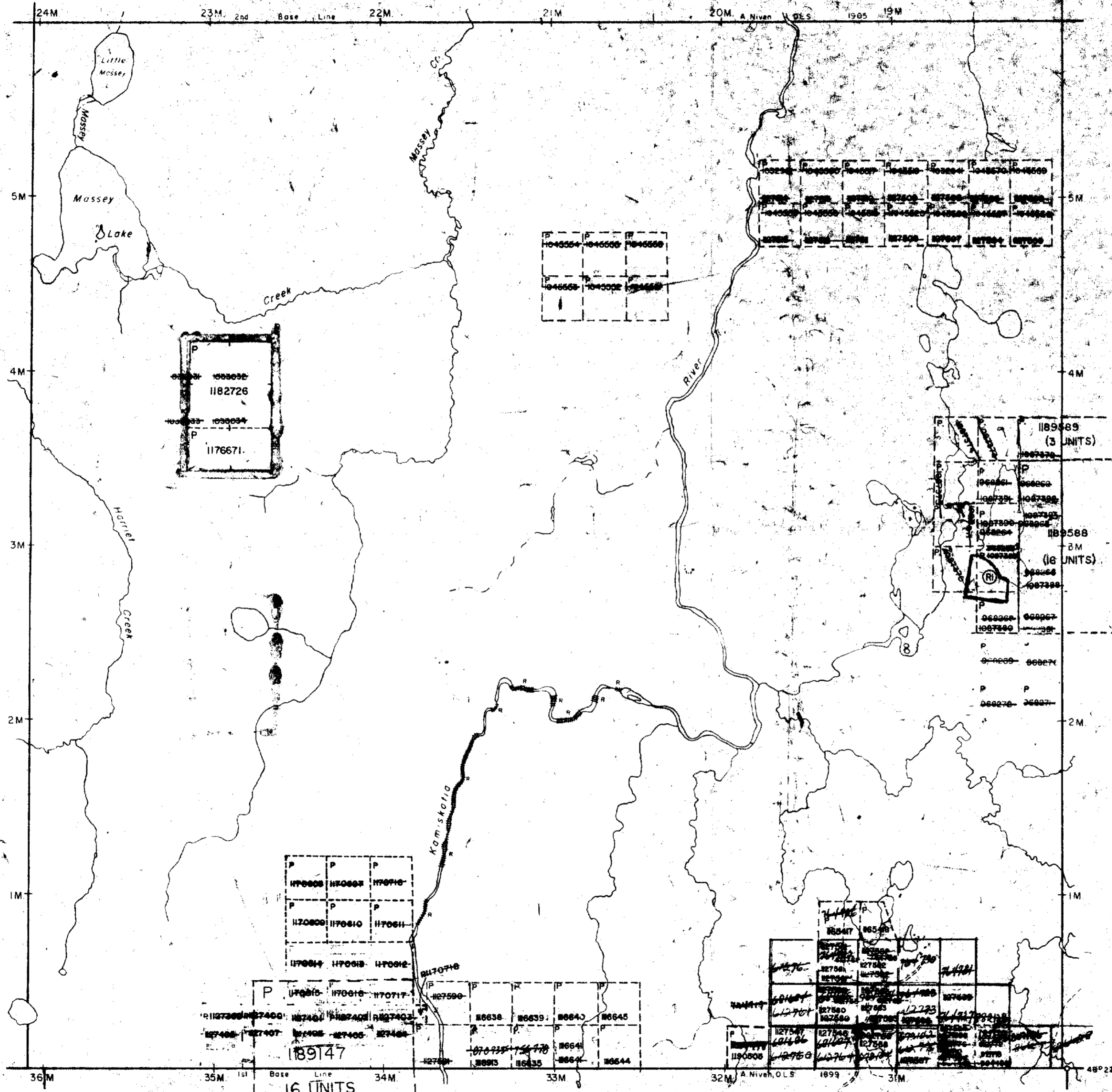
DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

ENID TWP - M.788

TURNBULL TWP - M.316



LEGEND

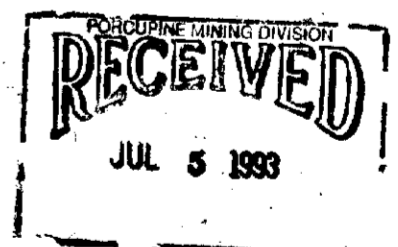
PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	(---)
IMPROVED ROADS	(=)
KING'S HIGHWAYS	(=)
RAILWAYS	(=)
POWER LINES	(---)
MARSH OR MUSKEG	(---)
MINES	(C)
CANCELLED	(---)

NOTES

400' surface rights reservation around all lakes and rivers.

F - THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/93 FURTHER INFORMATION AVAILABLE ON FILE.

(R) PENDING APPLICATION UNDER THE AGGREGATE RESOURCES ACT. NOTICE RECEIVED 91-NOV-22.



PLAN NO. *Rec'd Oct 4/93* **M.296**

DEPARTMENT OF MINES

— ONTARIO —

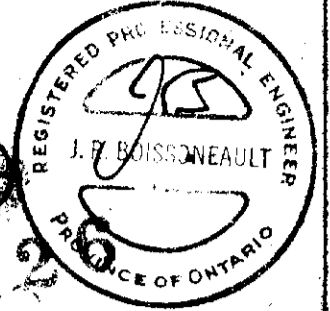
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS OFFICE OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



GEOLOGY

MASSEY PROPERTY

SCALE: 1 IN. = 100 M



2.15126

700N
600N
500N
400N
300N
200N
100N
00
100S
200S
300S
400S
500S

600N
500N
400N
300N
200N
100N
00
100S
200S
300S
400S
500S

LEGEND

PRECAMBRIAN

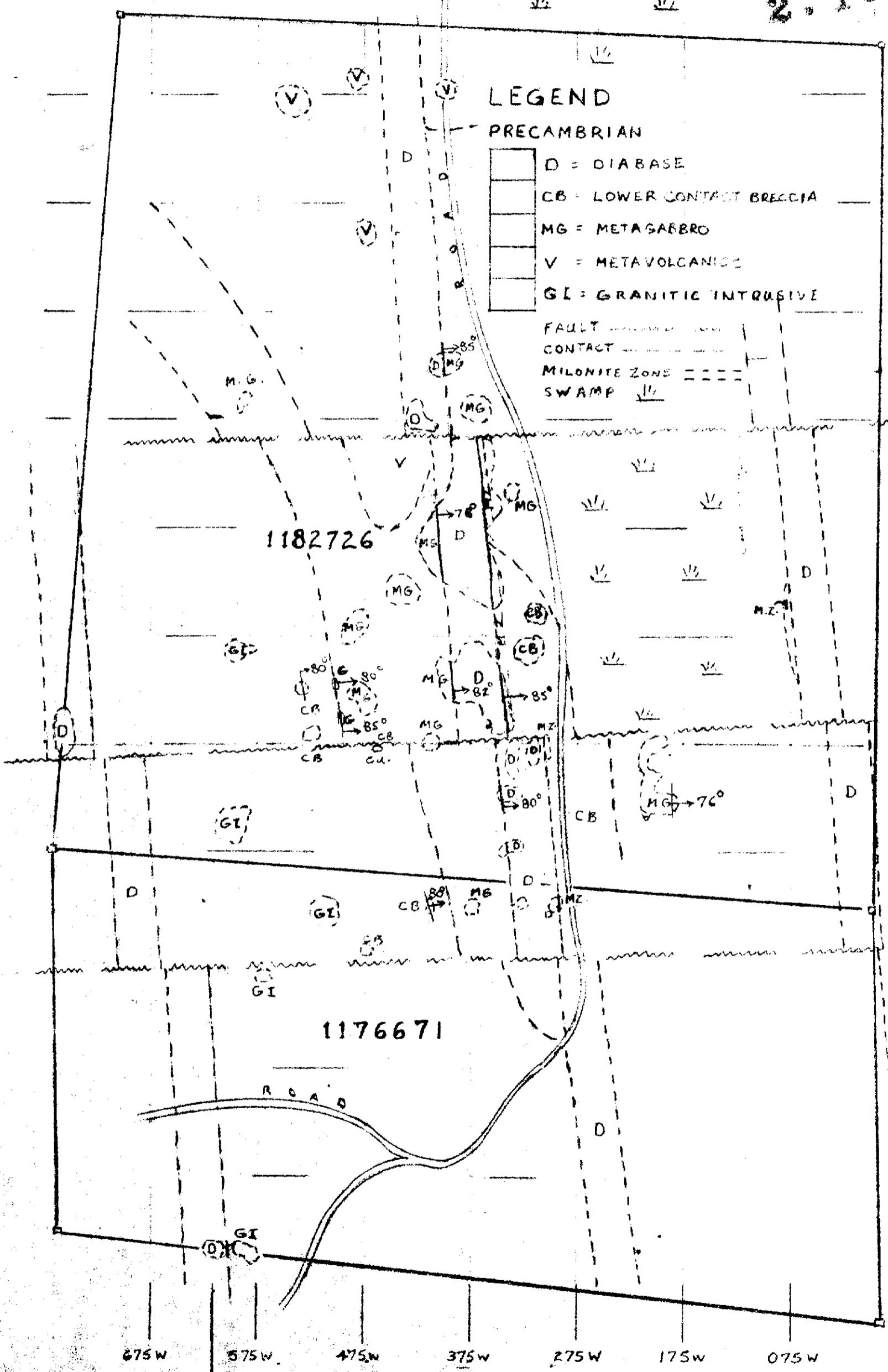
- D = DIABASE
- CB = LOWER CONTACT BRECCIA
- MG = METAGABBRO
- V = METAVOLCANICS
- GI = GRANITIC INTRUSIVE

FAULT ————

CONTACT - - - - -

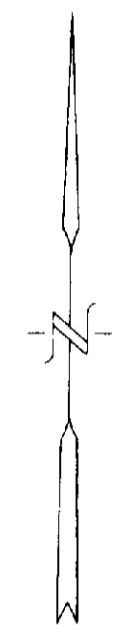
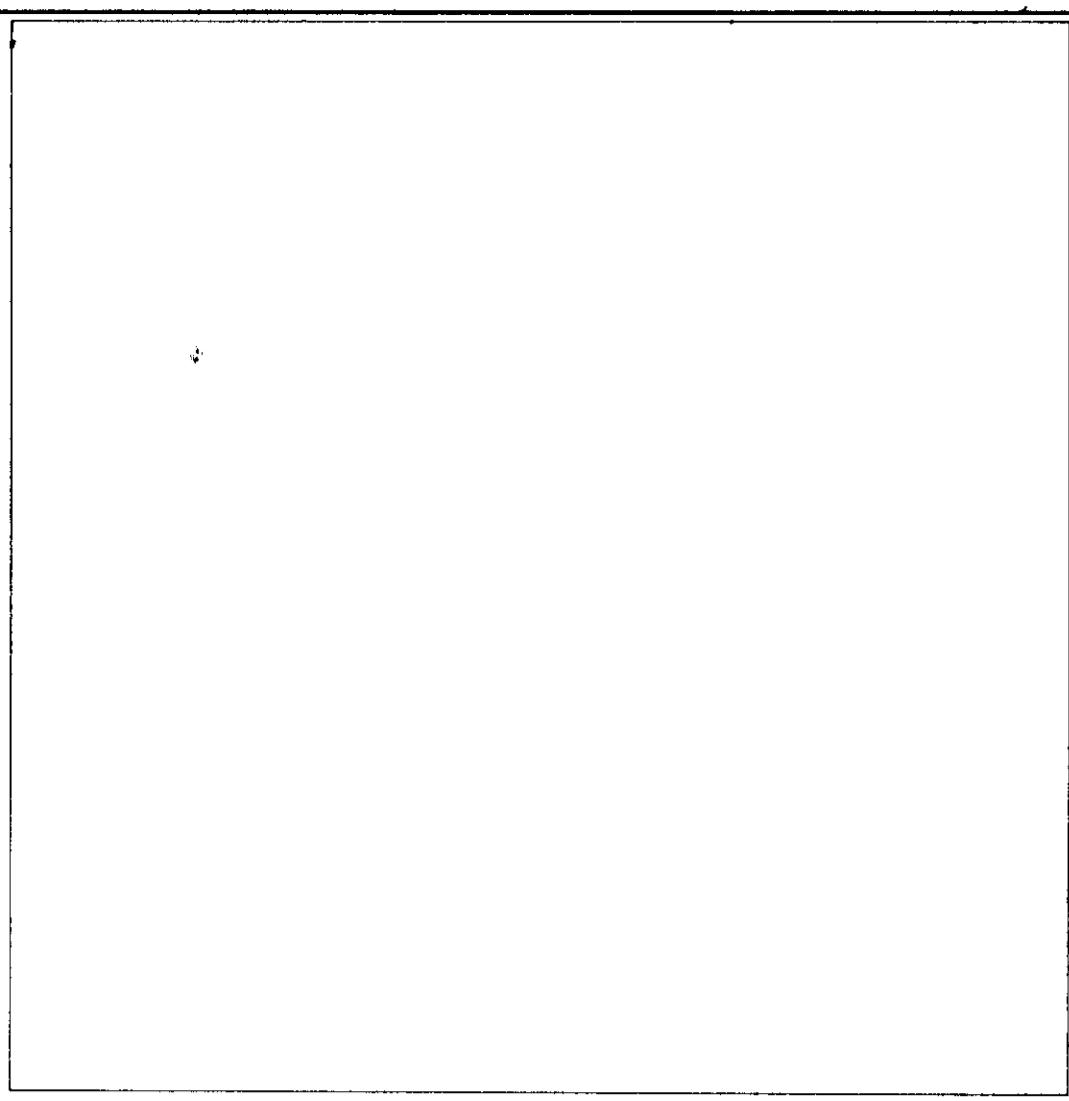
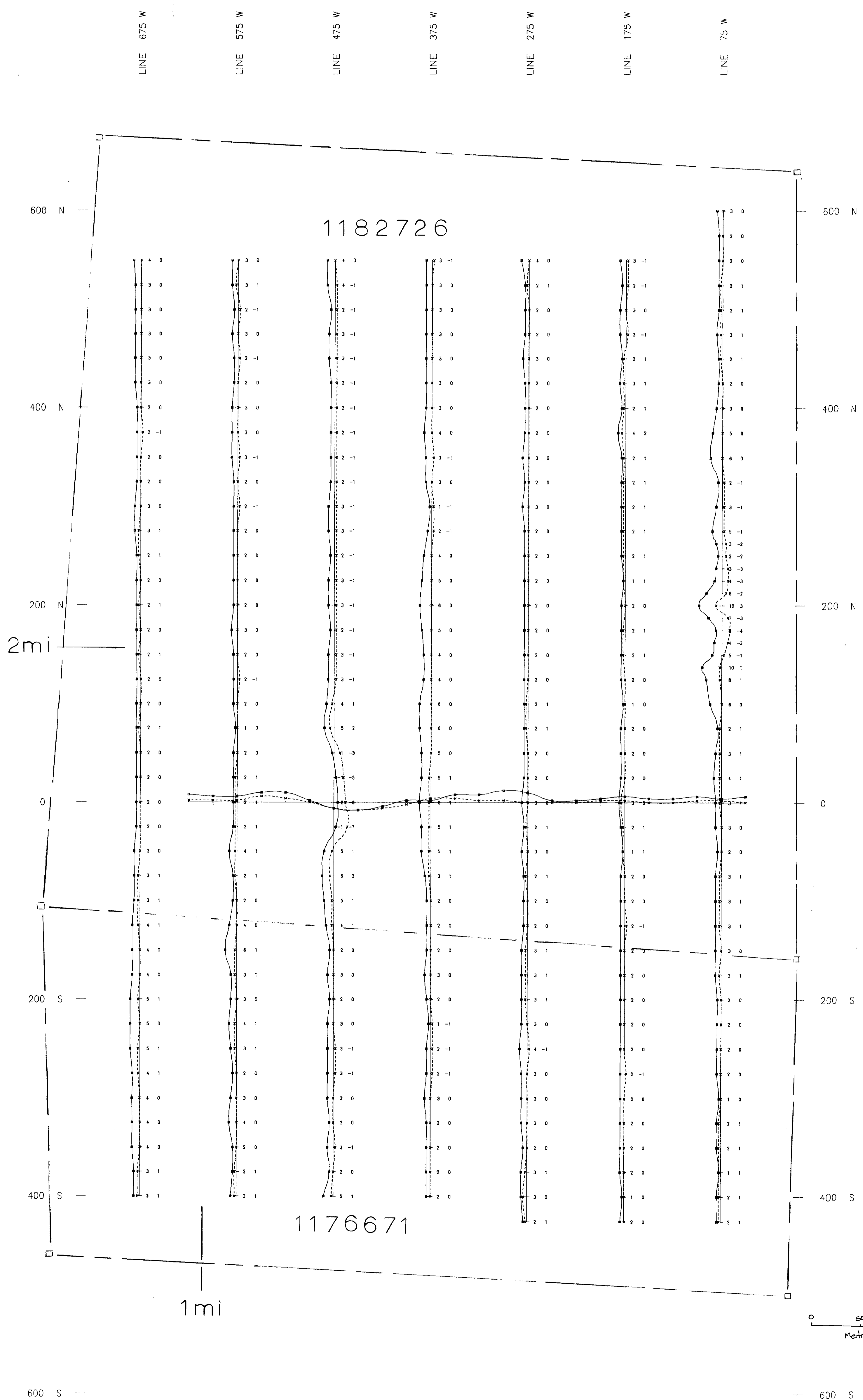
MILONITE ZONE - - - - -

SWAMP

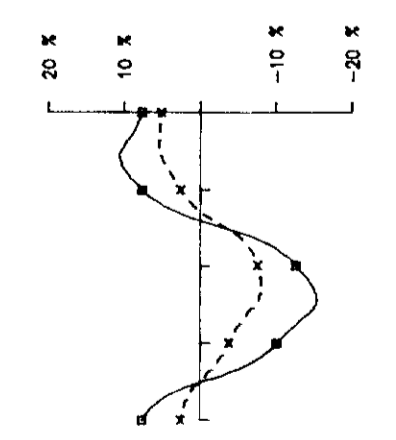


BY: J. R. BOISSONEAULT P. ENG.





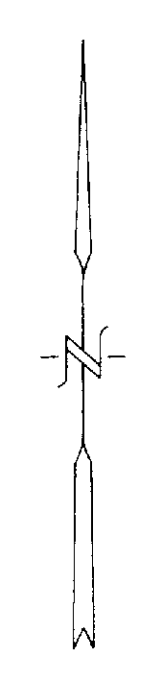
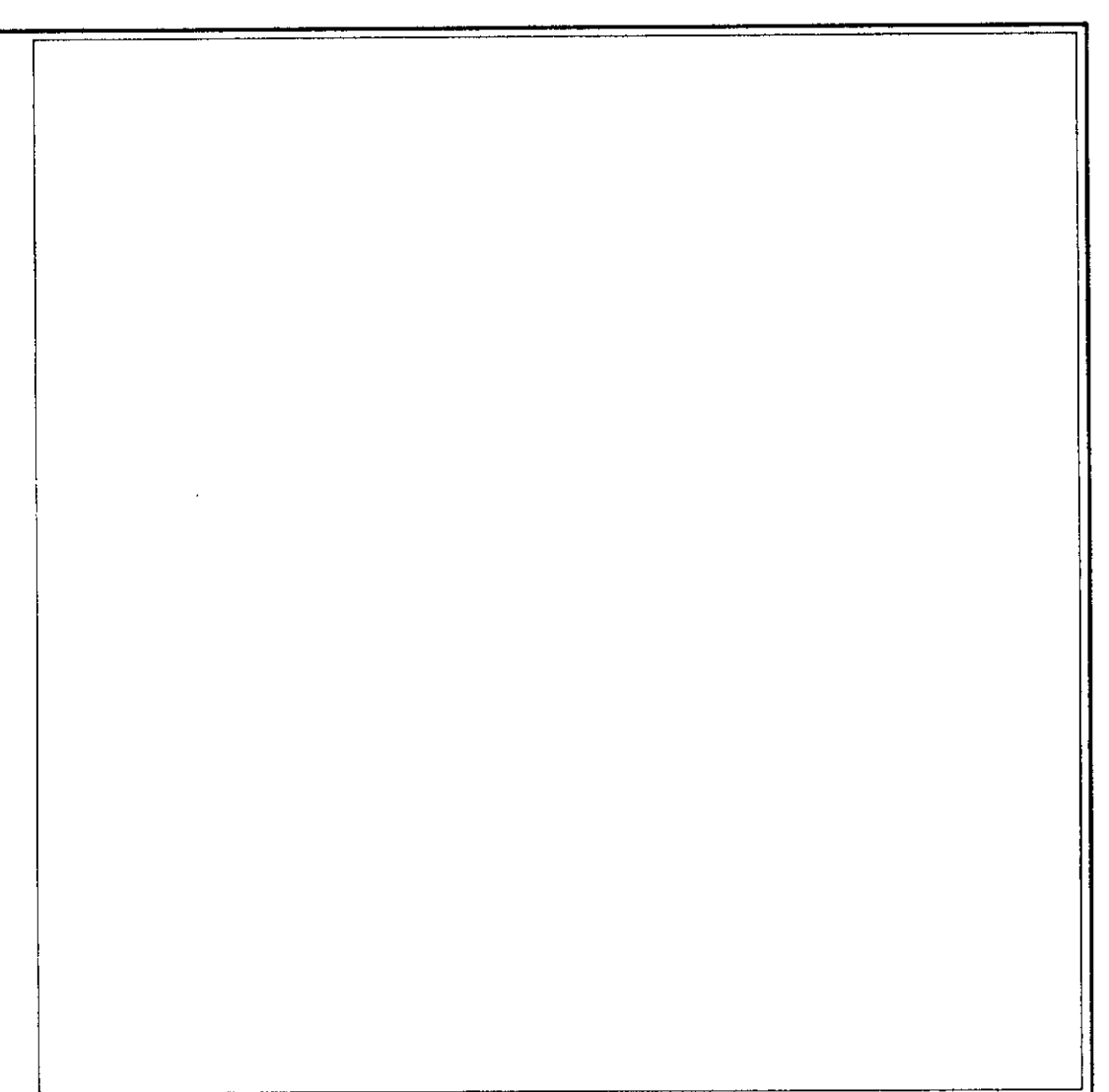
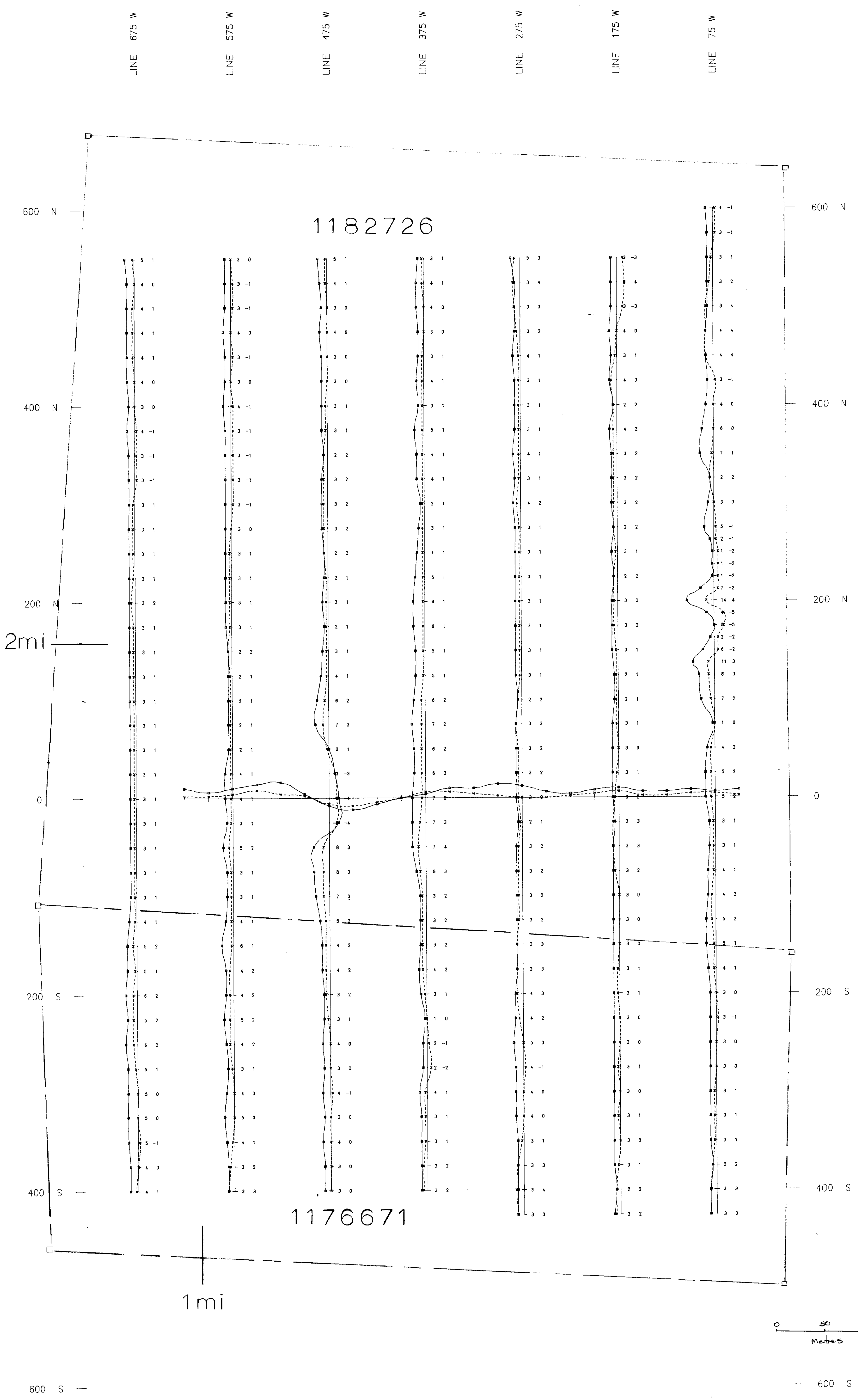
Instrument : Apex Parametrics MaxMin I
 Frequency : 444 Hz
 Coil Separation : 100 Metres
 Profile Scale : 1 cm = 10%



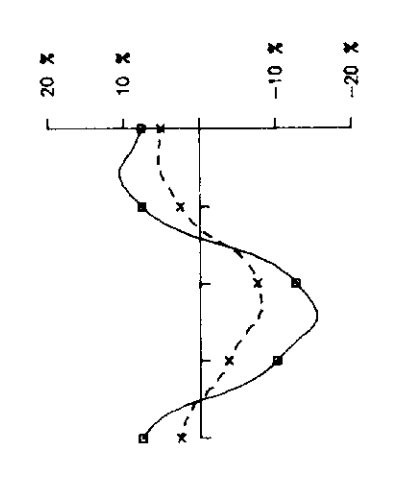
In-phase —●—
 Quadrature - - - -

MASSEY PROJECT	
HLEM SURVEY 444 Hz.	
MASSEY TOWNSHIP	
SCALE : 1: 2000	DATE : AUGUST 1991
FILE : MASS.HL	
WORK BY :	<i>Timmins Geophysics Ltd.</i>





Instrument : Apex Parametrics MaxMin I
 Frequency : 1777 Hz
 Coil Separation : 100 Metres
 Profile Scale : 1 cm = 10%



In-phase —●—
 Quadrature - - - - -

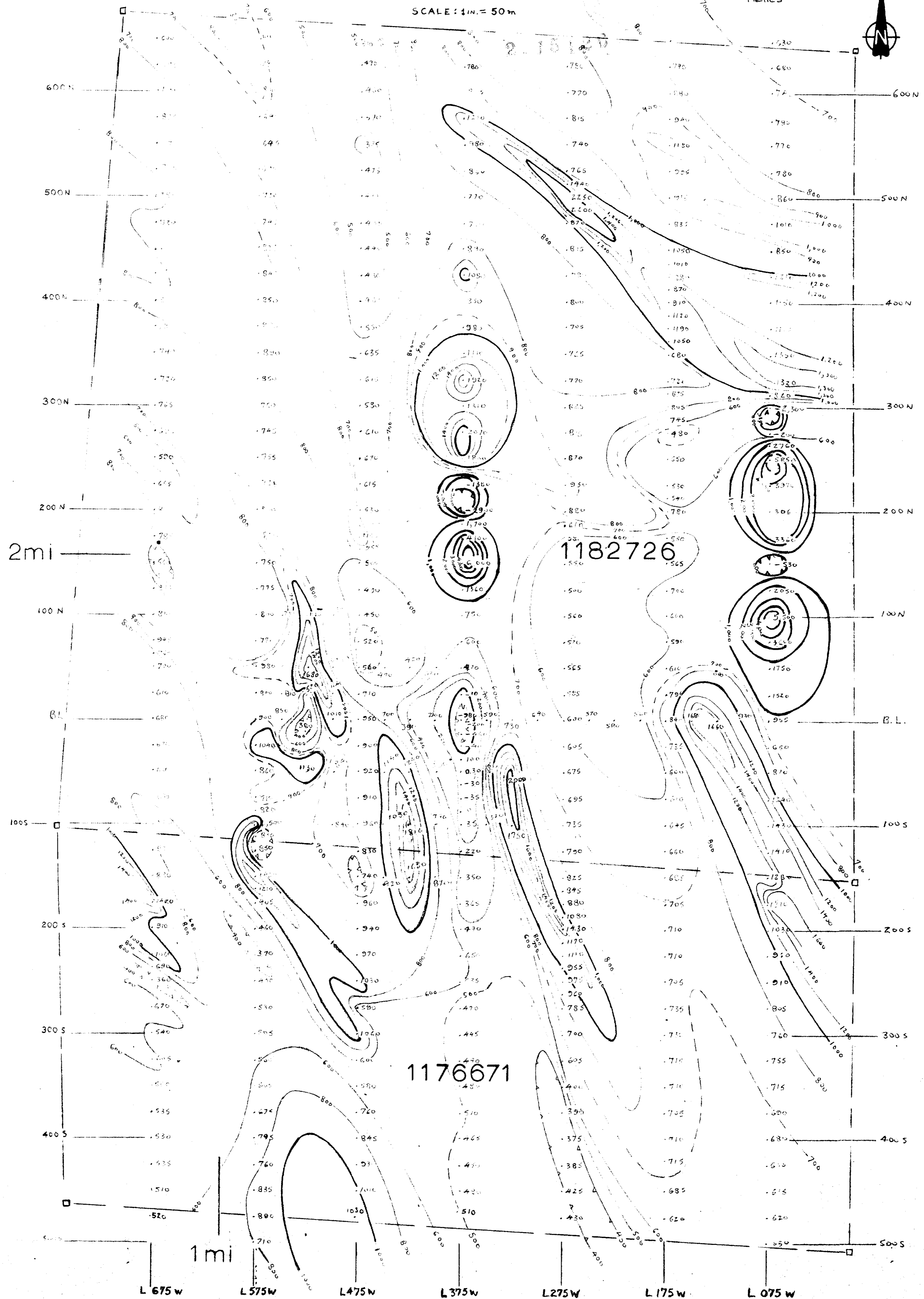
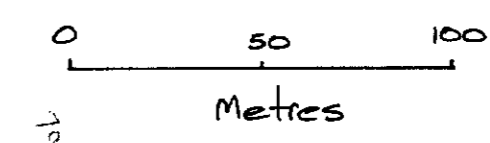
MASSEY PROJECT	
HLEM SURVEY 1777 Hz.	
MASSEY TOWNSHIP <i>JB</i>	
SCALE : 1:2000	DATE : AUGUST 1991
FILE : MASS.HL	
WORK BY :	<i>Timmins Geophysics Ltd.</i>



SURFACE MAGNETICS

MASSEY PROPERTY

SCALE: 1 IN. = 50 m



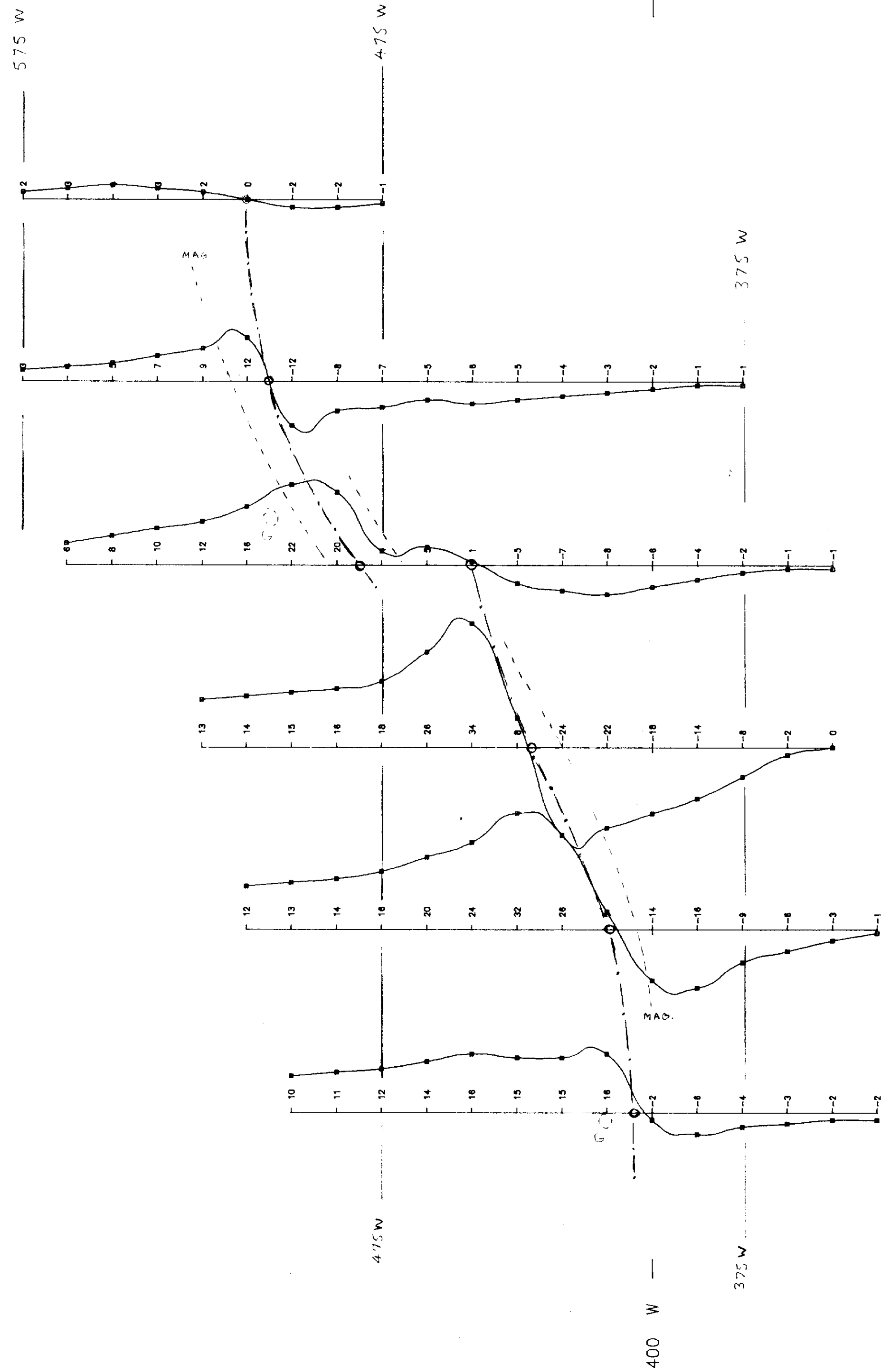
CONTOUR INTERVAL
100 gamma
200 gamma
1000 gamma

DATE: AUG. 1991
INST: SCINTREX, M.F. 1, SENSITIVITY: 5 gamma
VERTICAL FIELD INTENSITY
BY: J. R. BOISSONEAULT P. ENG.



600 W

600 W



LINE 100 N

LINE 50 N

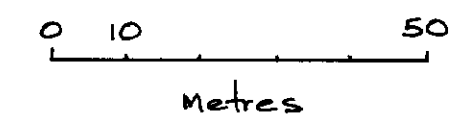
LINE 0

LINE 50 S

LINE 100 S

LINE 150 S

Instrument : Crone Radem
 Tx Station : Annapolis Maryland
 Frequency : 21.4 kHz
 Profile Scale : 1cm = 10⁰
 VLF conductor Axis ———
 Axis of magnetic High - - - -
 Gossan (?)



2.15.1991

MASSEY PROJECT

VLF SURVEY

MASSEY TOWNSHIP *gB*

SCALE : 1: 1000

DATE : AUGUST 1991

FILE : mas.vlf

WORK BY : J. R. BOISSONEAULT

