



31M05NE0027 2.7586 BUCKE

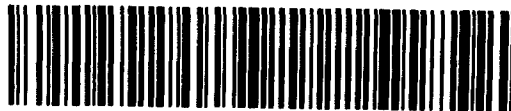
010

MONOPROS LIMITED
REPORT ON DRILLING AND MAGNETIC SURVEY
BUCKE TOWNSHIP

J. Letendre

October 19, 1984

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MINING LANDS SECTION



31M05NE0027 2.7586 BUCKE

010C

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I. INTRODUCTION

The results of an airborne geophysical survey in the New Liskeard area in 1982 located a strong magnetic anomaly which was interpreted to represent a mafic volcanic plug (Hogg, 1982). This report describes the follow-up drilling and ground magnetic surveying carried out over the anomaly.

II. PROPERTY

The property consists of twelve (12) claims numbered as follows:

667558	667564
667559	667565
667560	667566
667561	667567
667562	667568
667563	667569

III LOCATION AND ACCESSIBILITY

The claim group occupies the northern halves of Lots 4 and 5, Concession V and the southern half of Lot 4, Concession VI. It is located in the outskirts of the town of New Liskeard, approximately 4 kilometres southwest of the city centre.

The claim group is readily accessible by road. Highway # 11 runs across the easternmost claims and secondary roads flank the group elsewhere (fig. 1).

IV GENERAL GEOLOGY

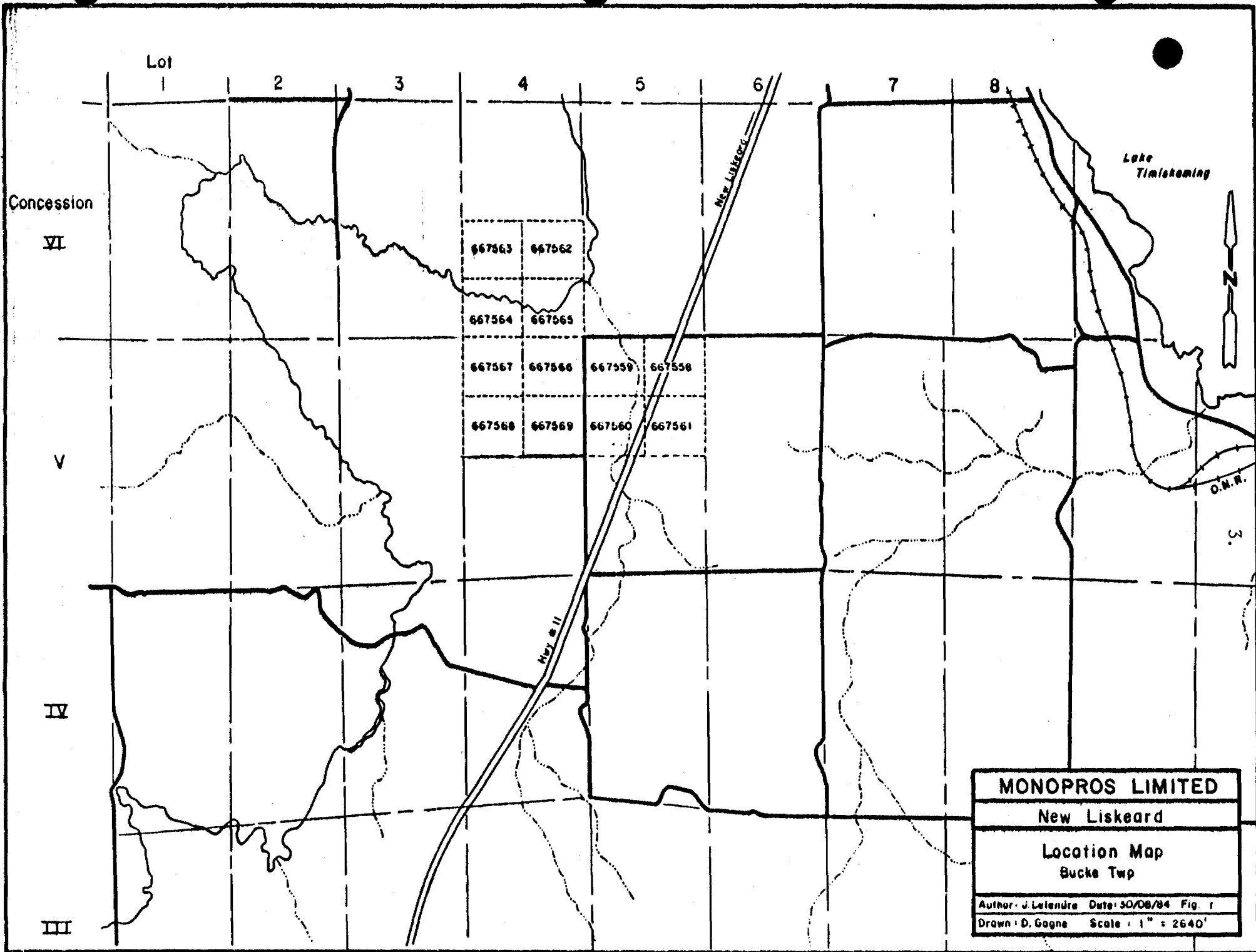
Three distinct geological units can be seen to crop out through the extensive clay cover of the area. At the base of the sequence lie the laminated siltstones of the Firstbrook Member of the Gowganda Formation; these are overlain by the Nipissing diabase which is present over much of Lot 4. Gently dipping Ordovician limestones comprise the uppermost unit. Their presence is limited to the eastern portion of the claim block (fig. 2).

V DRILLING

Located solely on the basis of the airborne survey, one hole (NL-DH-83-2) was drilled on the magnetic anomaly (fig. 3). The hole was drilled by a Schramm air compressed Rotodrill using a 6 $\frac{1}{4}$ " ODEX Shoe. The drill was equipped for both overburden and bedrock sampling.

Results indicated that bedrock was composed of Nipissing diabase which was overlain by 40.8 metres of glacial drift. (See Drill Log, Appendix I).

As the limestones in the area can be expected to be magnetically neutral, the background magnetic field probably reflects diabase which is widespread in the area. It was therefore concluded that the drill hole had not intersected the anomaly. In order to better characterize the anomaly a ground magnetic survey was carried out.



MONOPROS LIMITED
New Liskeard
Location Map
Bucke Twp
Author: J. Lelandre Date: 30/08/84 Fig. 1
Drawn: D. Gagne Scale: 1" = 2640'

VI GROUND MAGNETIC SURVEY

A grid was established in the claim group prior to the commencement of the magnetic survey. North-south lines were cut at 100 metre spacing, except for fill-lines in the centre of the grid where spacing was reduced to 50 metres. A total of 24.55 line kilometres (15.3 miles) were cut and surveyed.

The survey was carried out with an EDA PPM-500 Magnetic Gradiometer which produced simultaneous readings of the total magnetic field and the vertical magnetic gradient. An EDA PPM-400 base station magnetometer was used to correct for diurnal drift. This instrument was located approximately 3 km northeast of the grid.

Cultural effects such as high voltage power lines, culverts, fences and buildings seriously hampered the surveying in some sections of the grid (fig. 4).

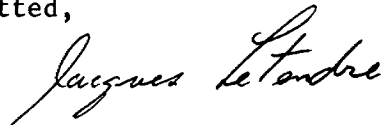
Erratic readings produced from obvious cultural causes were not plotted.

VII INTERPRETATIONS AND RECOMMENDATIONS

Results of both the ground total field and vertical gradient surveys indicate that the single airborne anomaly actually consists of 2 separate sources (fig. 5 and 6). Although evident from both surveys, the vertical gradient has better resolved the 2 anomalies.

Location of drill hole NL-DH-83-2 with respect to the ground surveys indicates that it lies between the 2 anomalies. Drilling of both anomalies is recommended to determine the sources.

Respectfully submitted,



J. Letendre
Exploration Geologist
October 19, 1984

/lh

REFERENCES

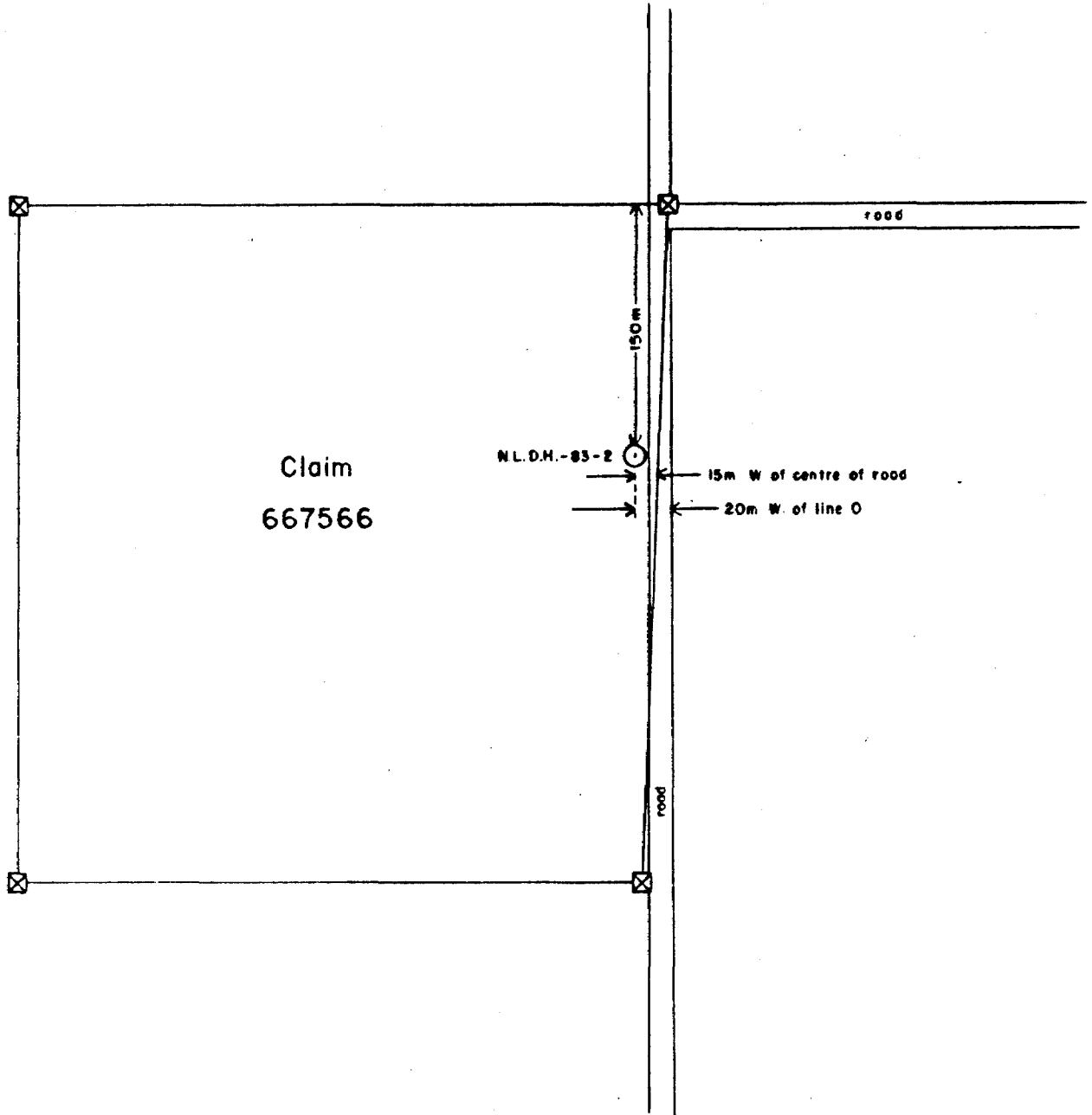
Hogg, R.L. 1982: Report on Combined Helicopter-borne Magnetic and Electromagnetic Survey New Liskeard, Ontario. OGS Assessment Work Library, File No. 2.6142.

APPENDIX I

MONOPROS LIMITED
DRILL LOG

Hole No. : NL-DH-83-2 Project Name: NEW LISKEARD Map No.: 31M
 Angle : 90° Direction : - Depth : 58.8m
 Claim : 667561 Grid : - Co-ordinates: 8+10N
 Location : MR. RICE'S PROPERTY 0+10E
 Started : FEBRUARY 2, 1983 Finished: FEBRUARY 2, 1983 Core Size:-
 (15cm hole)
 Drilled by : MELVIN LONGSTREET Logged by : J. LETENDRE

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0.0m	39.6m	<u>Lacustrine (Lake Ojibway) Clay</u> 0-2.4m hard, dry, buff coloured, oxidized 2.4-39.6 plastic, wet, brownish grey, low compaction.
39.6m	40.8m	<u>Basal Till</u> Silt to gravel, poor sorting, compact, clasts angular to sub angular, 40% diabase, 20% limestone, 20% slate, 20% diorite.
40.8m	58.8m	<u>Diabase</u> Greenish grey, medium grained, occasional biolite flakes, chloritized shear planes common throughout. 54.9-58.8 oxidized pyrite? and well developed actinolite crystals common.
	58.8m	END OF HOLE.



MONOPROS LIMITED
New Liskeard
Drill Hole Location Bucke Twp.
Author: J. Letendre Date: 3008/84
Drawn: D. Gagne Scale: 1:4000

APPENDIX II

DRILLING EXPENDITURES

NOTE: Footages and costs in the invoice and receipt include drilling carried out on Claim 667566 as well as in other areas. Costs pertaining to Claim 667566 are calculated as follows:

193' of drilling @ \$13.00 per foot:	\$2,509.00
2 drive shoes @ \$94.00 each:	<u>188.00</u>
	\$2,697.00

LONGSTREET DRILLING CO. LTD.

PHONE (705) 273-2534

BOX 510, MATHESON, ONTARIO, POK 1N0

DATE FEB 7, 1983

SOLD TO MONOPROE LIMITED
118 SPRINGFIELD ROAD
OTTAWA, ONTARIO K1M 1C6

Net 30 Days Interest Charged At 2% Per Month On Overdue Accounts

INVOICE

ONTARIO DRILLING					
580'	DRILLING @ \$13.00 PER FOOT	7540-			
375'	6" CASING @ \$5.60 PER FOOT	2100-			
4	DRIVE SHAFT @ \$94.00	376-			
					\$10,016.00

TPC - NL



DATE Feb 22 1983

RECEIVED FROM Momopros Limited

Ten thousand & Sixteen 00 DOLLARS
100

FOR Invoice dated February 7/83

FROM Paid in full

\$10,016⁰⁰

HONGSTREET DRILLING CO LTD
BY William P. Hongstreet



Ministry of
Natural
Resources

Report of
(Geophysical
Geochemical)



31M05NE0027 2.7586 BUCKE

900

667558
June 25th
type or print.
Number of mining claims traversed
Each space on this form, attach a list
of days credits calculated in the
"Credits" section may be entered
in "Expend. Days Cr." columns.
Use shaded areas below.

Type of Survey(s) GROUND GEOPHYSICAL (MAGNETIC)	Township or Area BUCKE TWP (N. 432)
Claim Holder(s) DONALD BOUCHER	Prospector's Licence No. A 45229
Address MONOPROS LTD, 20 VICTORIA ST., SUITE 801, TORONTO, ONTARIO M5C 2N8	
Survey Company MONOPROS LTD	Date of Survey (from & to) 25 02 84 13 03 84 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author of Geo-Technical report: JACQUES LETENDRE, P.O. Box 878, NEW LISKEARD, ONTARIO P0J 1P0	
Total Miles of line Cut 15.3	

Credits Requested per Each Claim in Columns at right		
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	24
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)					
Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
5					
	667553				
	667559	60			
	667560				
	667561	60			
	667562				
	667563				
	667564				
	667565				
	667566	60			
	667567				
	667568				
	667569				

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EDBURY
MINING DIV.
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NOV 1 1984
A.M. 7:18 AM

Expenditures (excludes power strapping)	
Type of Work Performed DRILLING (OVERBURDEN - BEDROCK)	
Performed on Claim(s) 667566	
Calculation of Expenditure Days Credits	
Total Expenditures \$ 2697.00	Total Days Credits 150
$\$ 2697.00 \div 15 = 180$	
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

Total number of mining claims covered by this report of work. **12**

Date 1984-10-11	Recorded Holder or Agent (Signature) <i>J. Letendre</i>
---------------------------	--

For Office Use Only			
Total Days Cr. Recorded 468	Date Recorded Nov. 26/84	Mining Recorder <i>J. Miller</i>	
Date Approved as Recorded	Branch Director	<i>see revised statement</i>	

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 JACQUES LETENDRE, P.O. Box 878, NEW LISKEARD, ONTARIO, P0J 1P0			
Date Certified 1984-10-11	Certified by (Signature) <i>J. Letendre</i>		

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1000 Number of Readings 2000
Station interval 25 metres Line spacing 100 metres and 50 metres
Profile scale -
Contour interval 50 NT (Total Field) 1 NT/metre (Vertical Gradient)

MAGNETIC

Instrument EDA PPM 500 Vertical Gradiometer, EDA PPM 400 Base Station Magnetometer
Accuracy - Scale constant 1 NT
Diurnal correction method Base Station Readings at 20 Second Intervals
Base Station check-in interval (hours) 2
Base Station location and value New Liskeard (3 kilometers northeast of survey grid)
Base Station Value 58,000 NT

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

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 _____



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File 2.7586

Date 1985 01 04

Mining Recorder's Report of
Work No. 84-115

Recorded Holder	DONALD BOUCHER
Township or Area	BUCKE TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	S 667558 to 569 inclusive \$2697.00 SPENT ON OVERBURDEN DRILLING ON MINING CLAIM S 667566. 180 DAYS ASSESSMENT WORK CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT RSO 1980. ONLY 20 DAYS PER GEO-TECHNICAL SURVEY ALLOWABLE UNDER SPECIAL PROVISIONS.

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

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
---	--

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

Mining Lands Section

File No 2.7586

Control Sheet

TYPE OF SURVEY



GEOPHYSICAL



GEOLOGICAL



GEOCHEMICAL



EXPENDITURE

MINING LANDS COMMENTS:

_____ *ld* _____

LD

Pearce

Signature of Assessor

28/12/84

Date

January 25, 1985

Your File: 84-115
Our File: 2.7586

Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

RE: Notice of Intent dated January 4, 1985
Geophysical (Magnetometer) Survey and
Assaying submitted on Mining Claims
S 667558, et al, in Bucke Township

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

D. Isherwood:mc

cc: Donald Boucher
Monopros Ltd
20 Victoria Street
Suite 801
Toronto, Ontario
M5C 2N8

cc: Jacques Letendre
P.O. Box 878
New Liskeard, Ontario
POJ 1P0

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

cc: Resident Geologist
Sudbury, Ontario

Encl.



Ministry of
Natural
Resources

Jan 21, 1985

1985 01 04

Your File: 84-115
Our File: 2.7586

Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

P.O. D. Isherwood:mc

Encls.

cc: Donald Boucher
Monopros Ltd
20 Victoria Street
Suite 801
Toronto, Ontario
M5C 2N8

cc: Jacques Letendre
P.O. Box 878
New Liskeard, Ontario
PON 1P0

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

845



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 01 04

2.7586/84-115

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

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

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

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



MONOPROS LIMITED

October 19, 1984

I, Jacques Letendre, certify that I completed a Bachelor of Science degree (geology) in 1970 and a Master of Science degree (geology) in 1976 at the University of Montreal.

I also certify that I worked for:

Dessau Consulting Engineers Ltd.
1200 West St. Martin
Laval, Quebec

from 1978 to 1982 as a quaternary geologist.

I am presently employed by:

Monopros Limited
P.O. Box 878
New Liskeard, Ontario
POJ 1P0

Jacques Letendre



MONOPROS LIMITED

October 19, 1984

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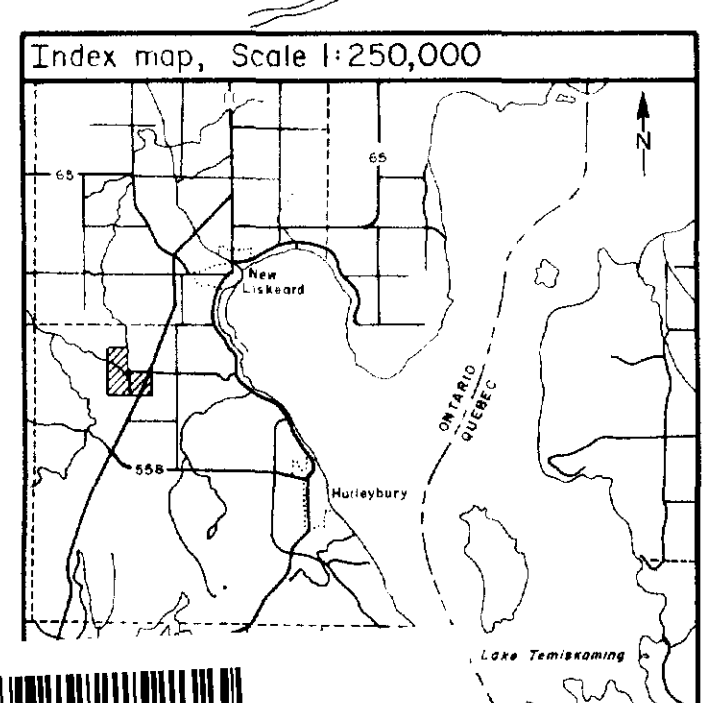
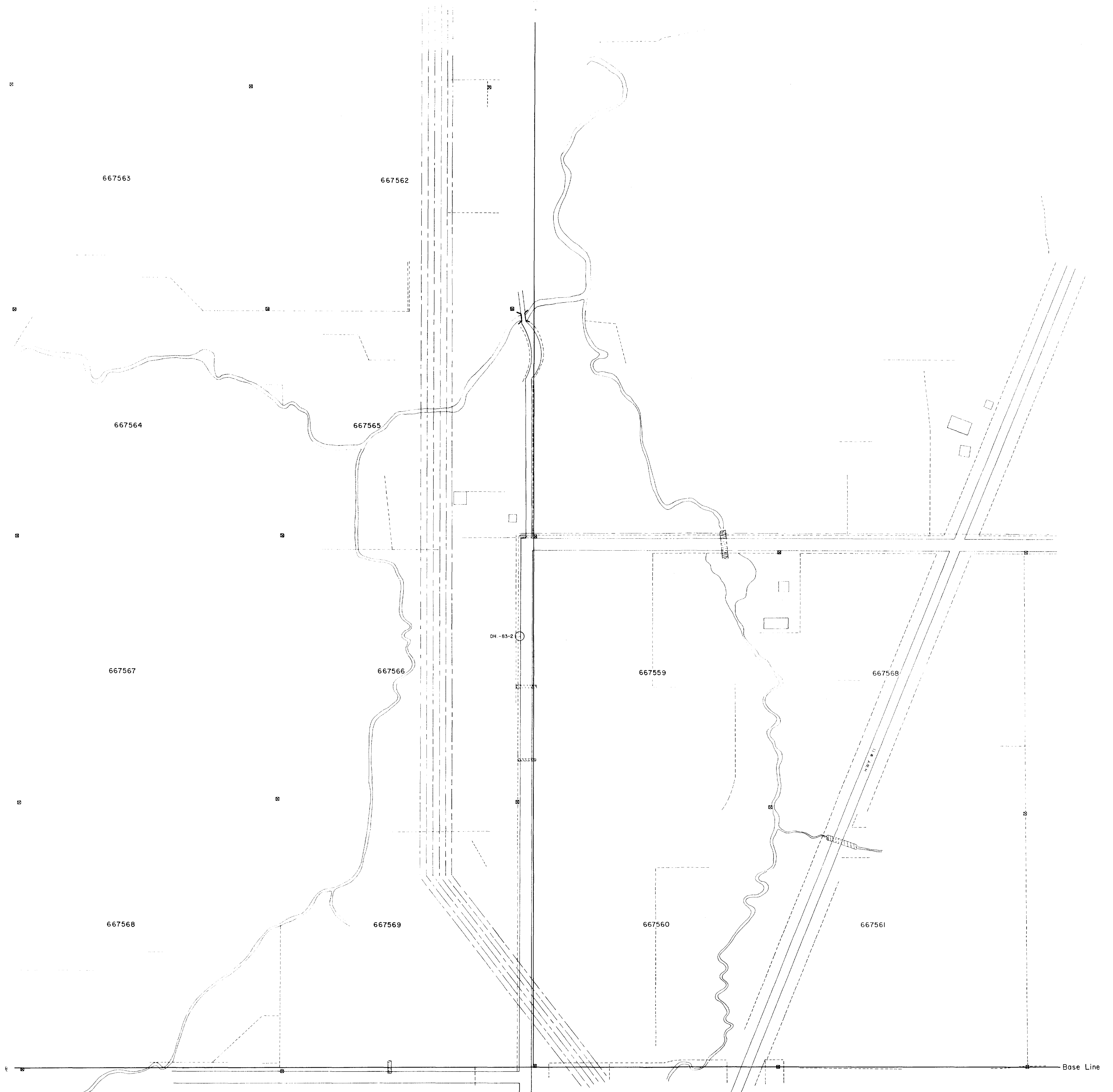
Monopros Limited
P.O. Box 878
New Liskeard, Ontario
POJ 1P0

Jacques Letendre

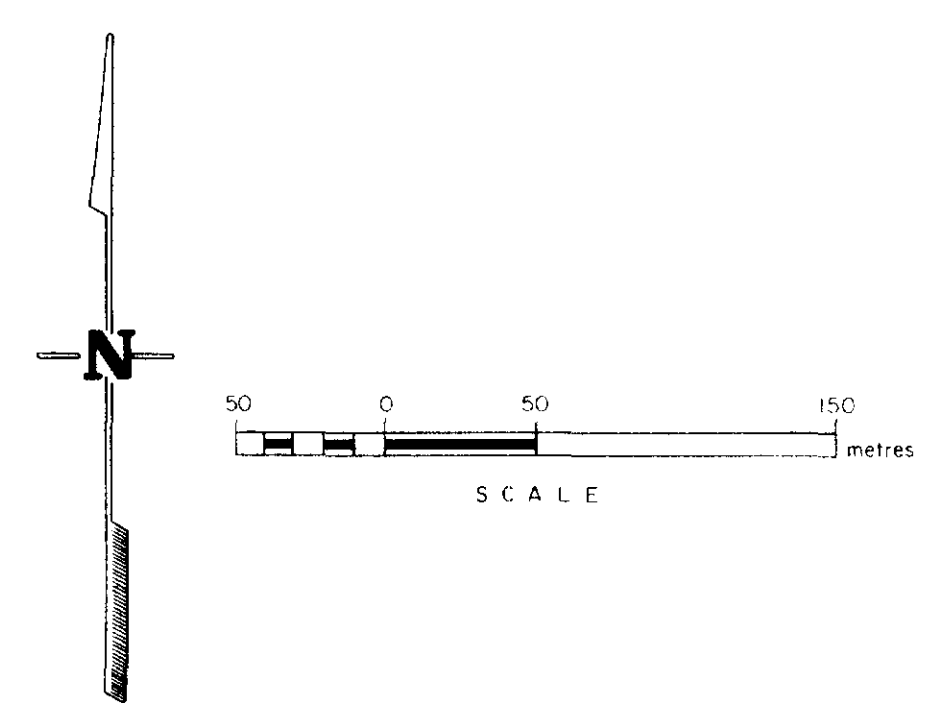
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DEC 18 1984

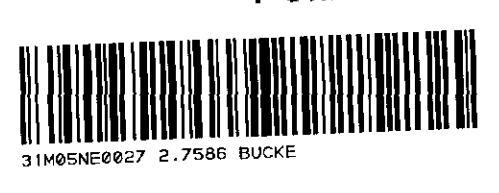
MINING LANDS SECTION

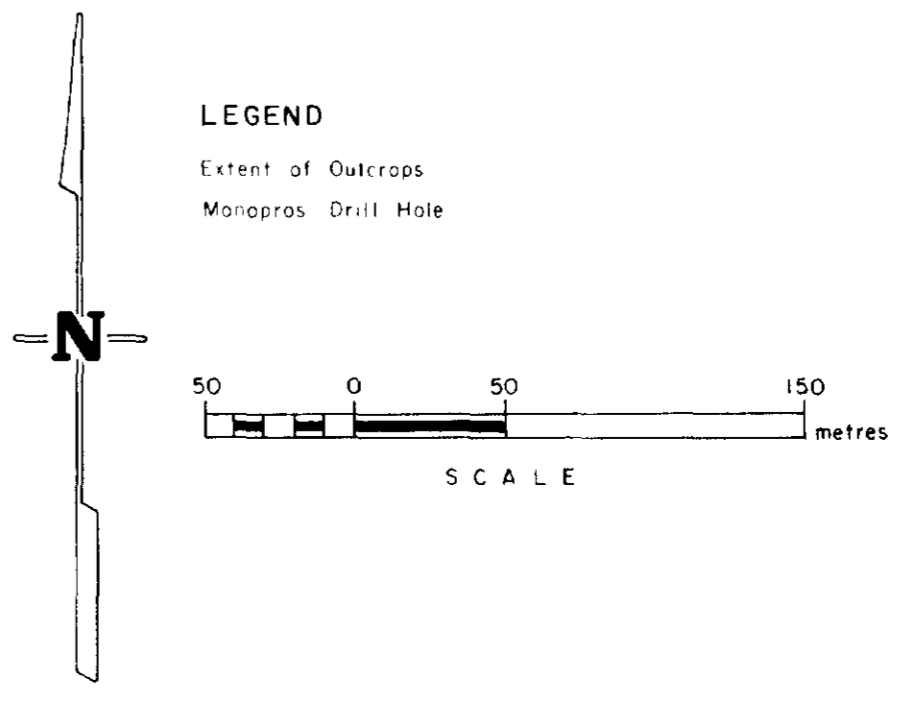
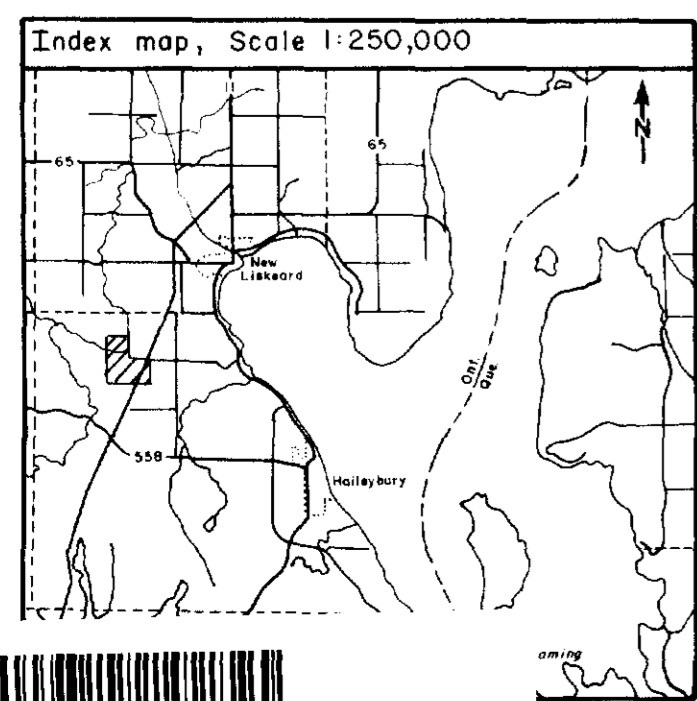
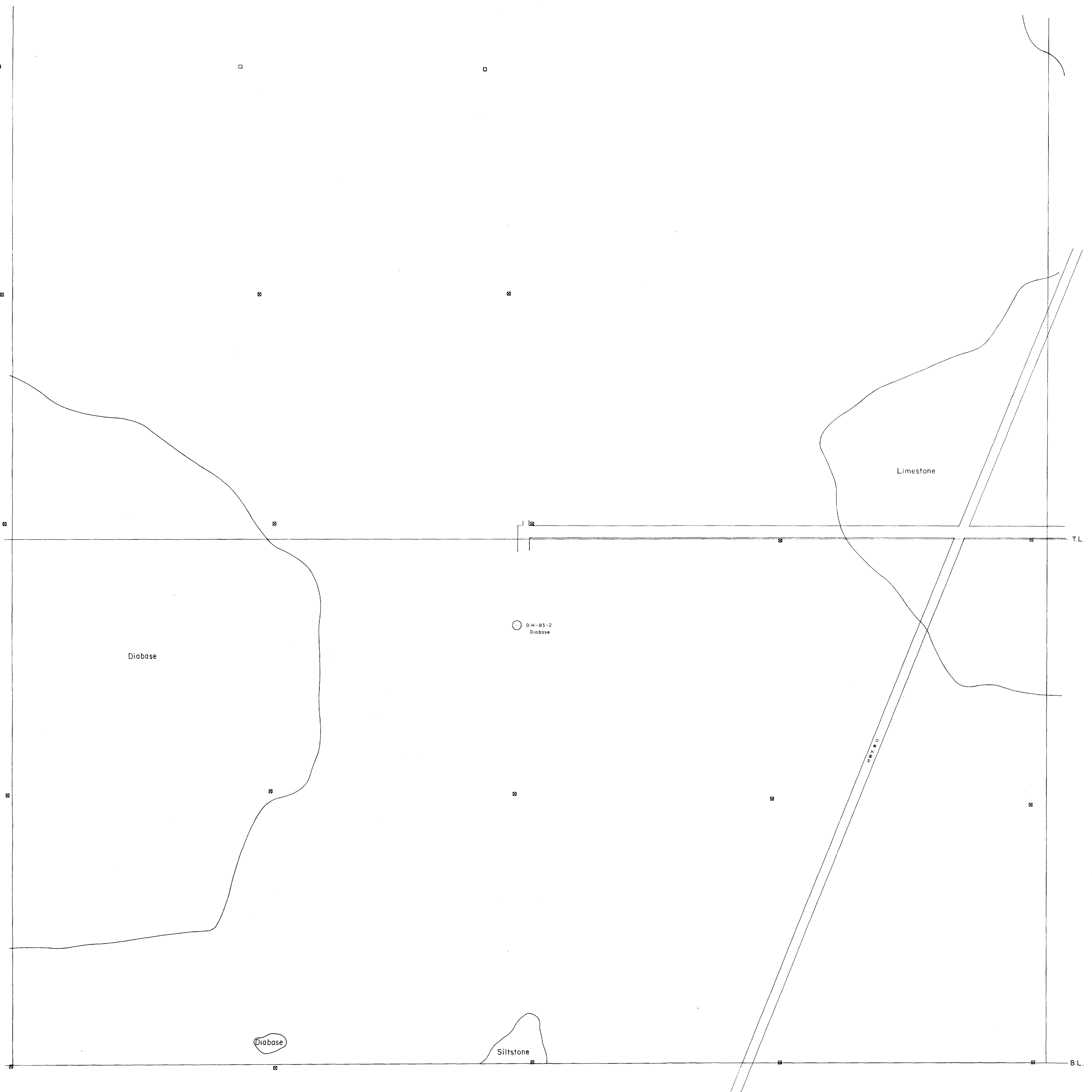


- LEGEND**
- Highways, roads ect.
 - Rivers and creeks
 - Claim posts
 - Buildings
 - Fences
 - High & low voltage powerlines
 - Culverts
 - Bridges



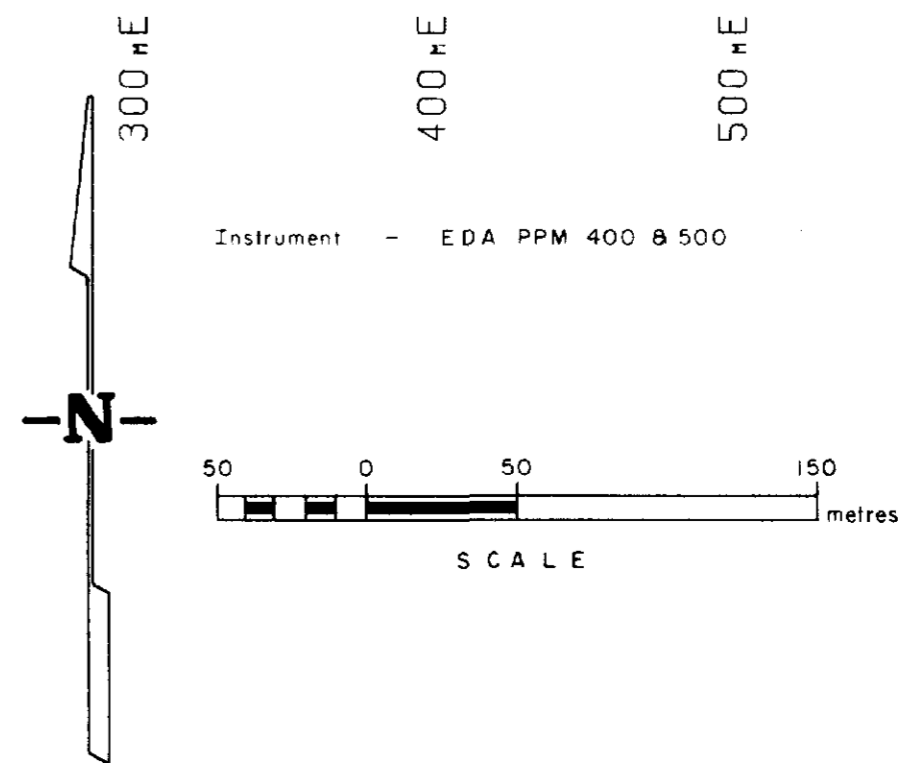
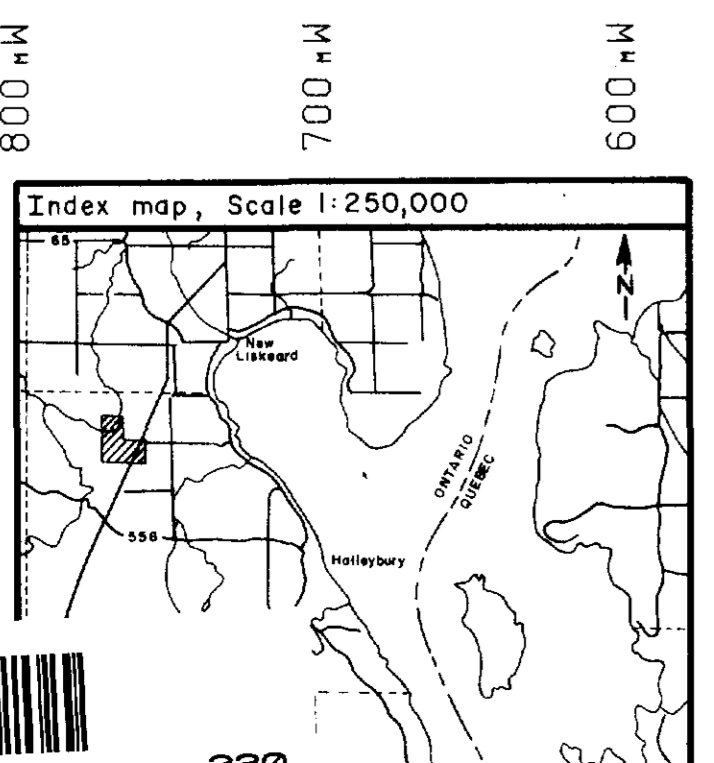
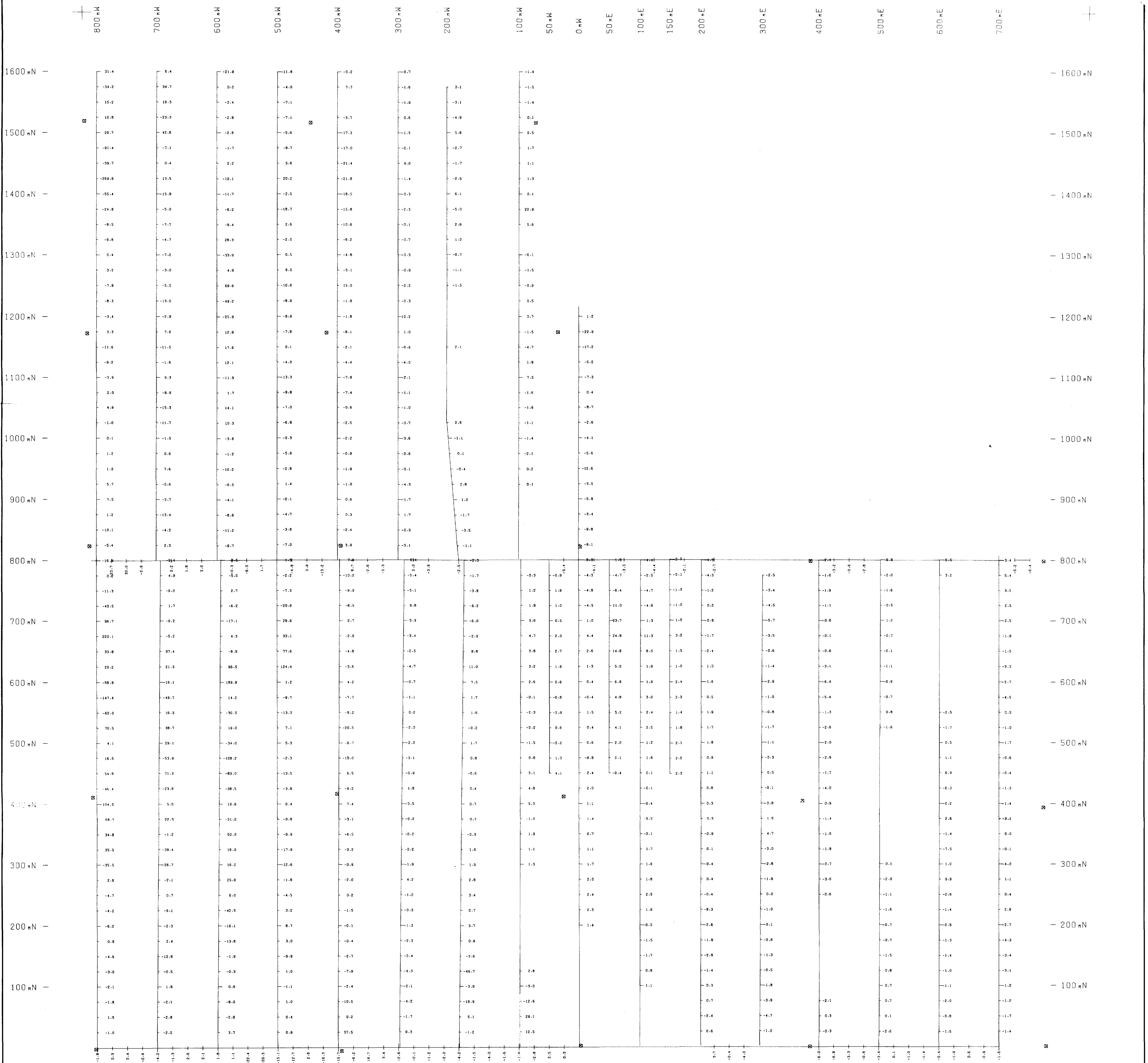
MONOPROS LIMITED			
NEW LISKEARD			
<i>Jacques Letendre</i>			
Drainage and Cultural Effects			
Bucke Twp.			
Author: Jacques Letendre	Date: 30/06/94	Figure: 4	File:
Drawn: Denis Gagné	Date: 26/10/84	Scale: 1:2,500	N 1 S 31 M 5





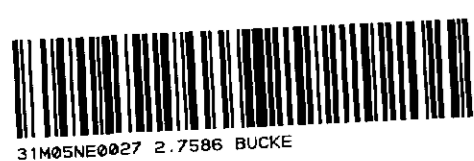
MONOPROS LIMITED			
NEW LISKEARD			
<i>Jacques Letendre</i>			
General Geology			
Bucke Twp.			
Author Jacques Letendre	Date 30/08/84	Figure 2	File
Drawn Denis Guigné	Date 24/10/84	Scale 1:2,500	N.T.S. 31M/5



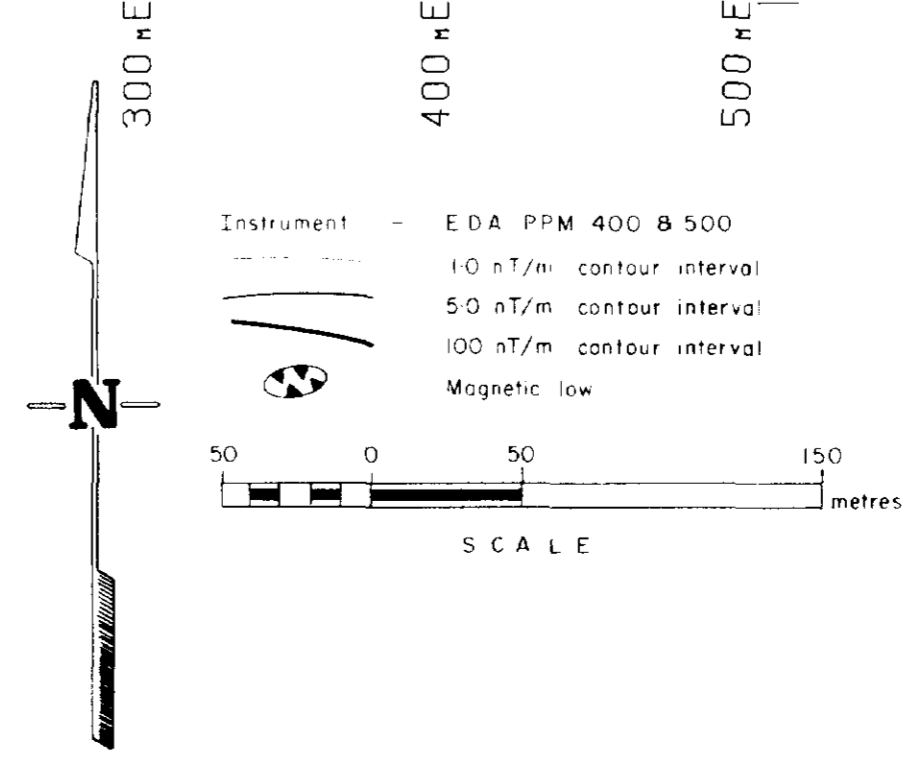
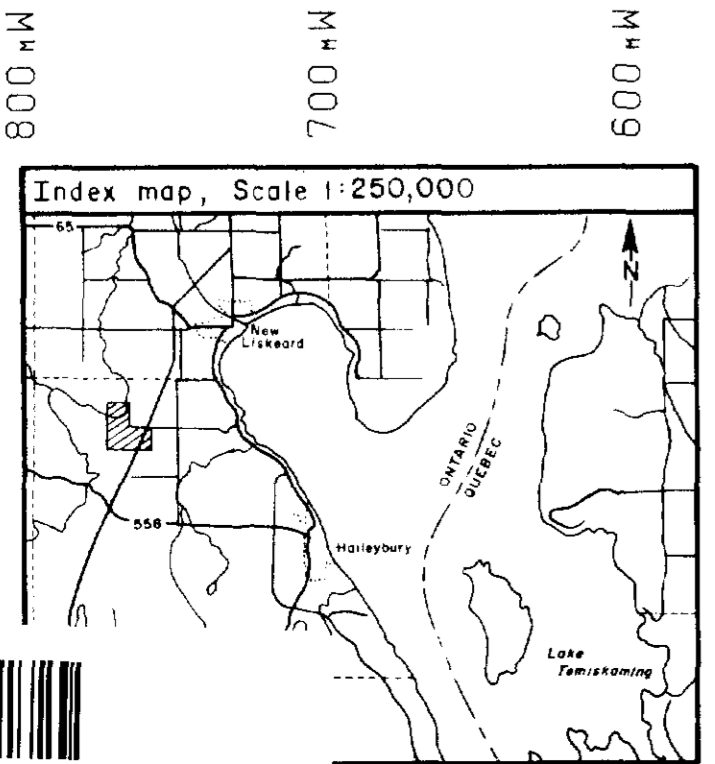
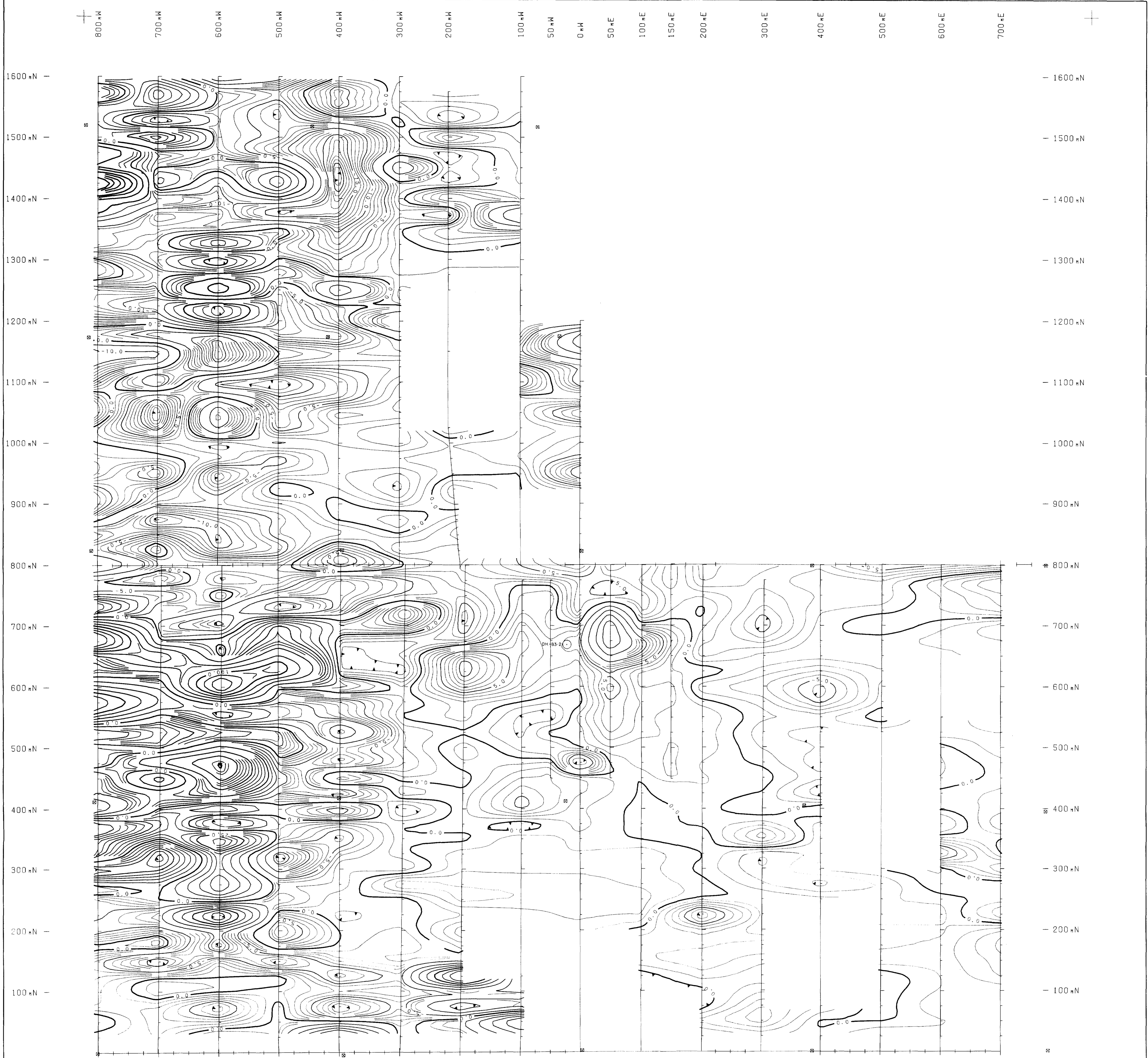


Instrument - EDA PPM 400 @ 500

MONOPROS LIMITED	
NEW LISKEARD	
<i>Jacques Letendre</i> Magnetometer Survey	
Vertical Gradient	
Bucke Twp.	
Author: Jacques Letendre	Date: 30/08/84
Figure: 6A	File:
Drawn: Data Plotting	Date: 27/10/84
Scale: 1:2,500	N.T.S. 31M/5

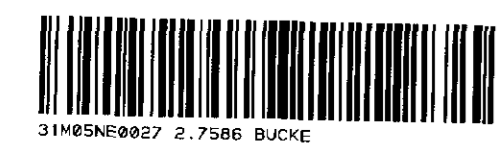


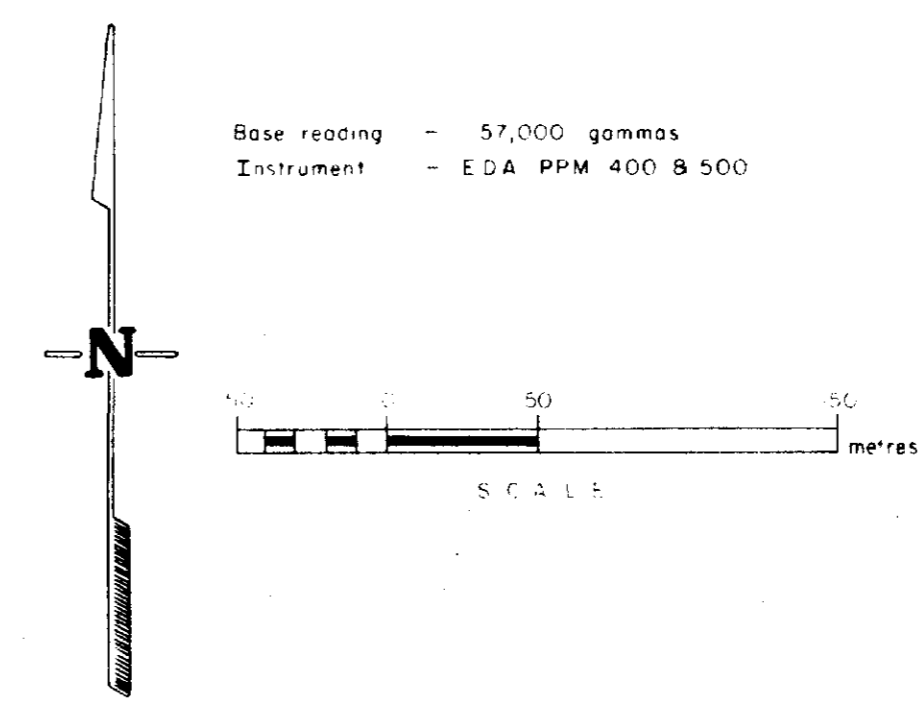
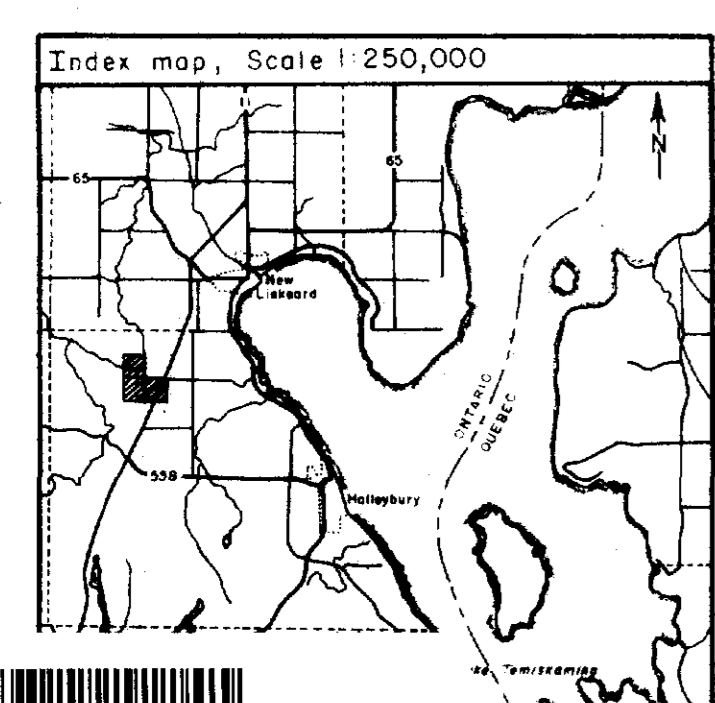
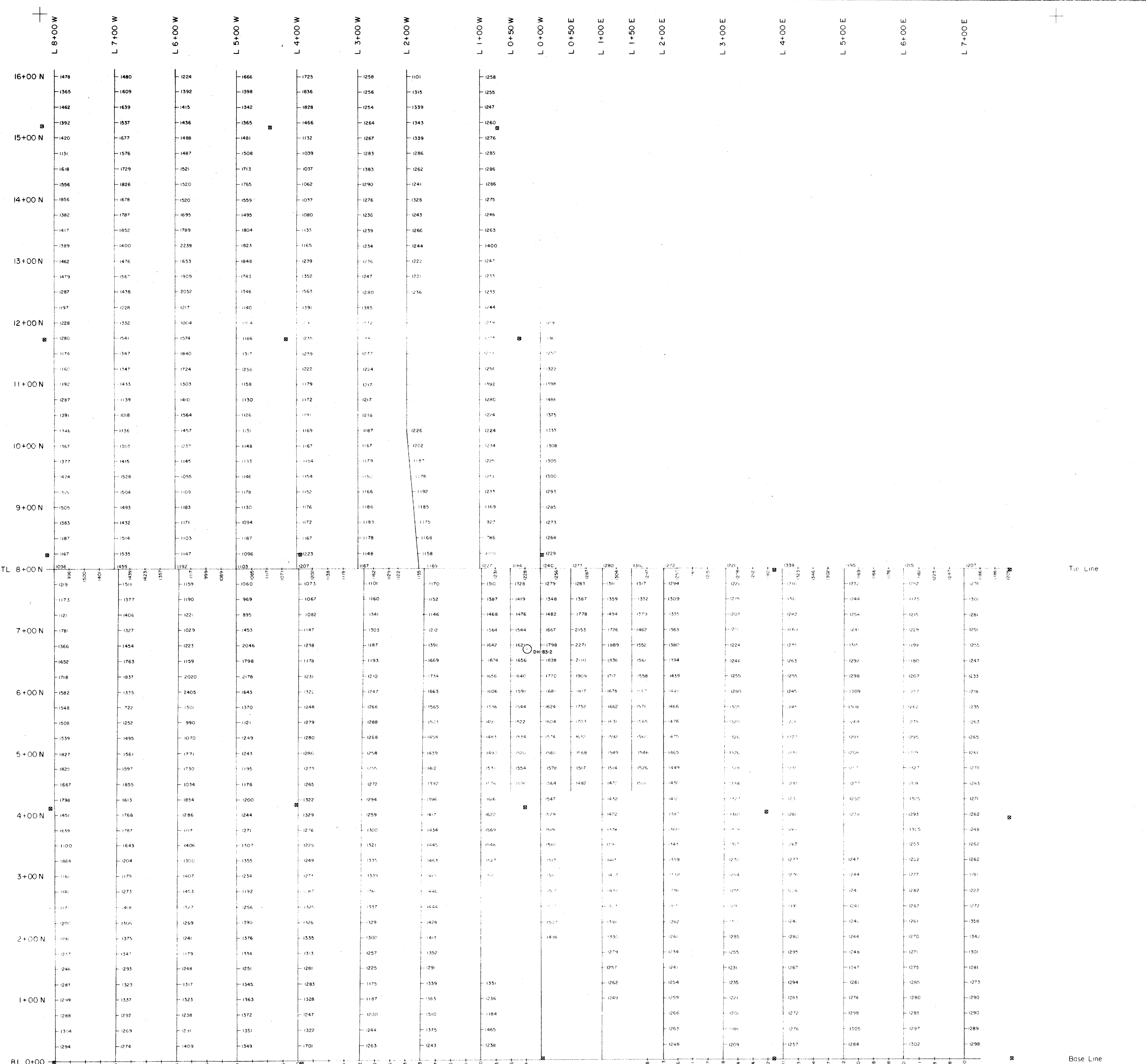
2-1586



Instrument - EDA PPM 400 B 500
 10 nT/m contour interval
 50 nT/m contour interval
 100 nT/m contour interval
 Magnetic low

MONOPROS LIMITED			
NEW LISKEARD			
<i>Jacques Letendre</i> Magnetometer Survey			
Vertical Gradient			
Bucke Twp.			
Author: Jacques Letendre	Date: 30/08/84	Figure: 6	File:
Drawn: Data Plotting	Date: 27/10/84	Scale: 1:2,500	N.T.S.: 31M/5

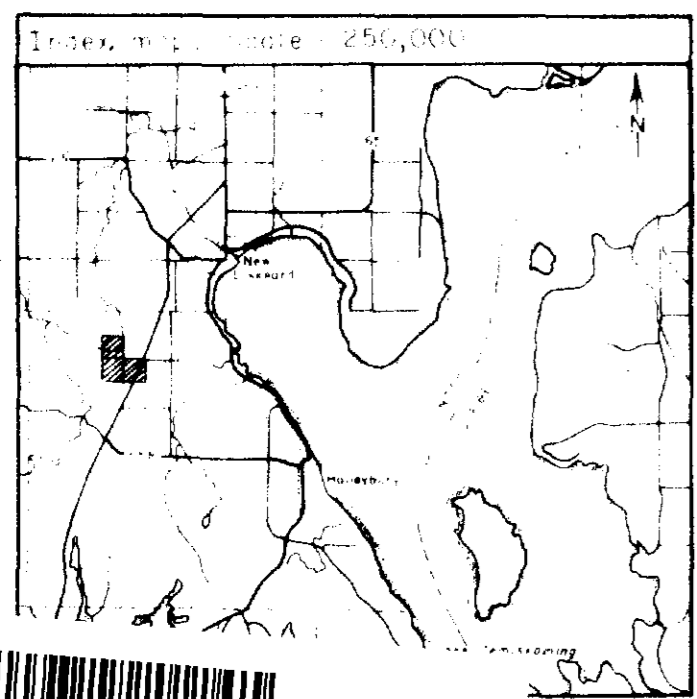
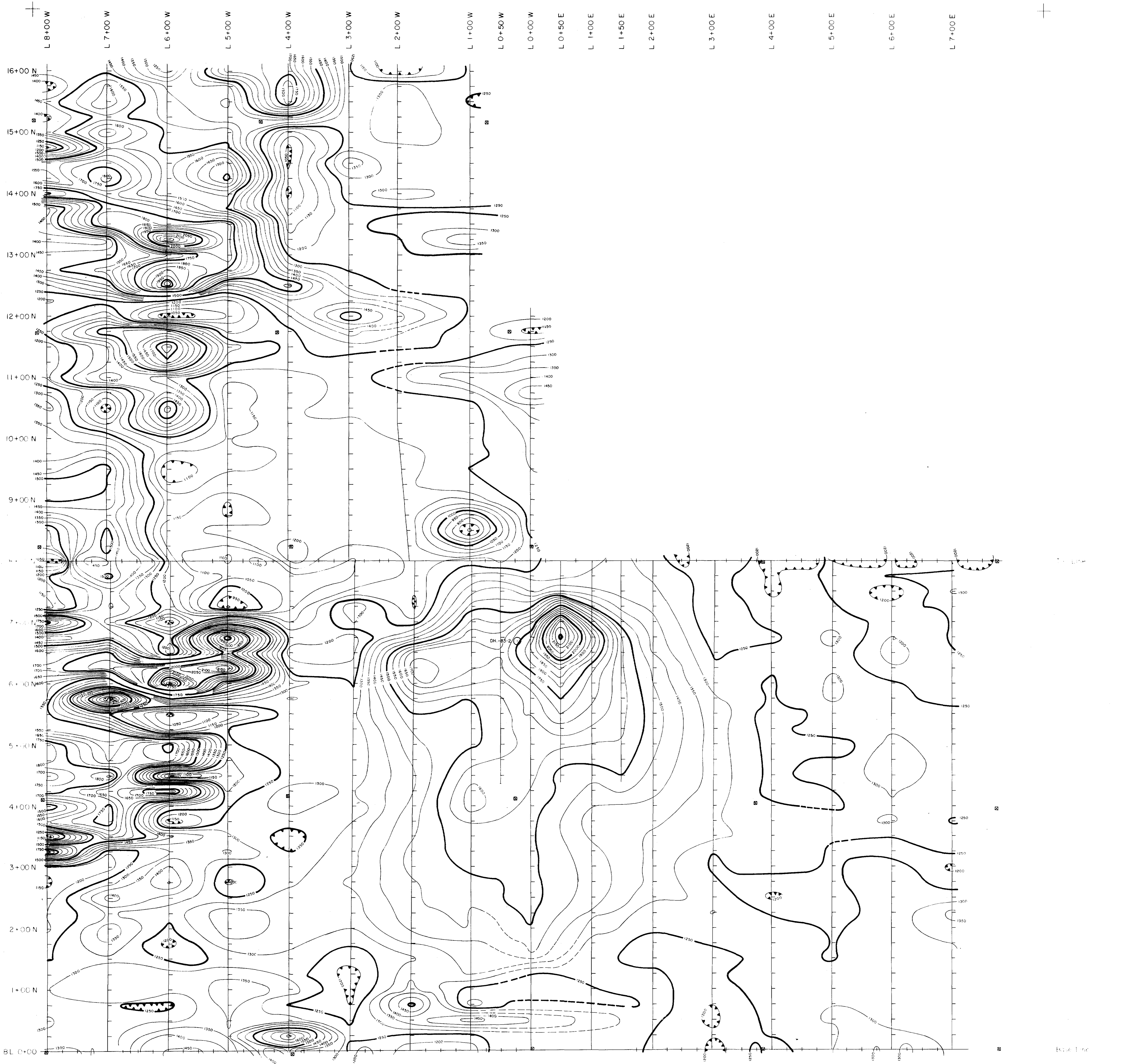




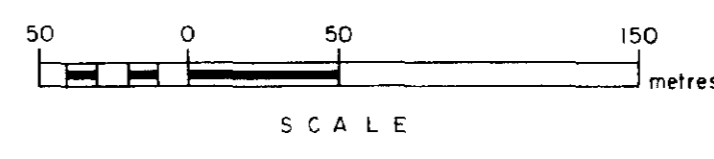
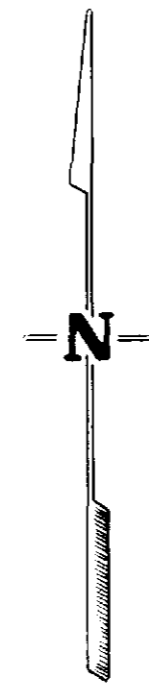
Base reading = 57,000 gammas
 Instrument = EDA PPM 400 B 500

MONOPROS LIMITED			
NEW LISKEARD			
<i>Jacques Letendre</i> Magnetometer Survey			
Total Field			
Bucke Twp.			
Author Jacques Letendre	Date 30/08/84	Figure 5A	File
Drawn Denis Gagné	Date 28/09/84	Scale 1:2,500	N.T.S. 31M/5





Base reading - 57,000 gammas
 Instrument - EDA PPM 400 B 500
 50 nT/m contour interval
 250 nT/m contour interval
 Magnetic low



MONOPROS LIMITED	
NEW LISKEARD	
<i>Jeanes LeTard</i> Magnetometer Survey	
Total Field Bucke Twp.	
<small> Datum: Canadian Geodetic Datum 1929 Projection: UTM Zone: 18N Figure: 5 Scale: 1:50,000 Date: 1984 </small>	

