



42D14NW0027 2.5227 PAYS PLAT LAKE

010

REPORT ON VLF-EM AND MAGNETOMETER SURVEY

CLAIMS TB 653958 - 962 incl.

653978 - 979

653998 - 999

PAYS PLAT LAKE AREA

NTS 42-D-14

RECEIVED

NOV 25 1982

MINING LANDS SECTION

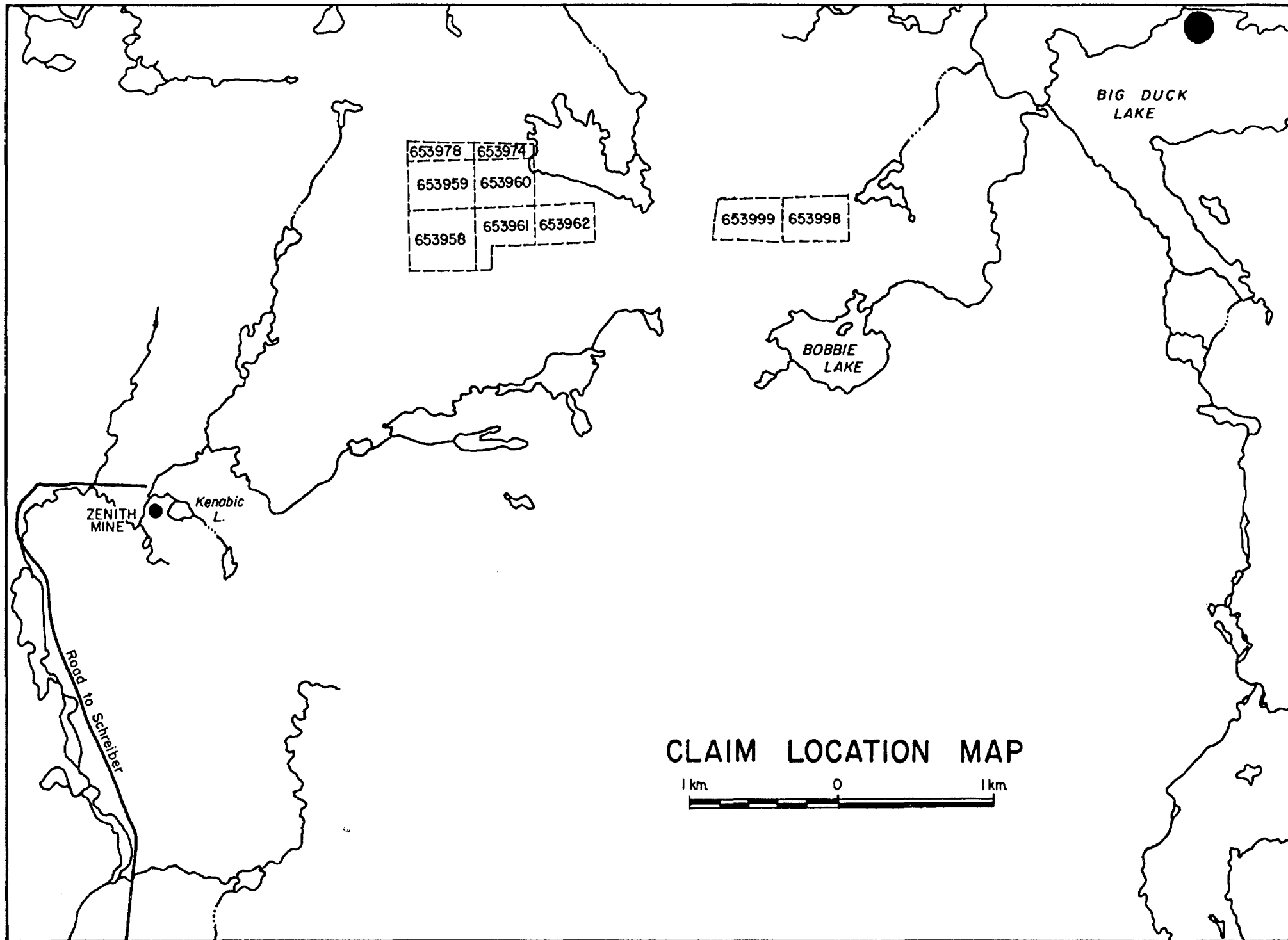
November 1, 1982

A. J. Davidson

SUMMARY

A magnetometer and a VLF-EM survey was carried out over claims TB 653958 - 653962 incl., 653978 - 653979 and TB 653998 and 653999 in the Pays Plat Lake area. Several moderate to strong VLF-EM conductors were discovered in areas of moderate magnetics.

Further EM surveys as well as geological mapping and geochemical samples are not only recommended but are planned for 1983.



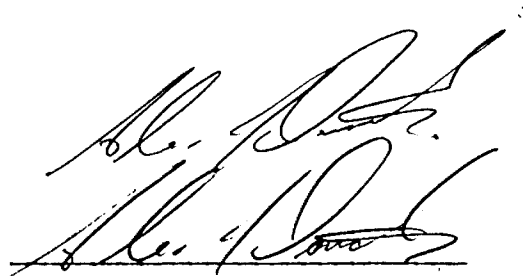
SURVEY RESULTS

MAGNETOMETER: The claims are thought to be underlain mostly by basic volcanics. This is reflected by the lack of significant magnetic relief in the area. However, a few circular "lows" near the baseline on claims TB 653958 and 653961 may be significant, as well as the few isolated magnetic highs in the area.

VLF-EM: Several moderate to strong anomalies occur on the claims. The longest extends from L 88 + 00E to L 93 + 00E just south of BL 0 + 00E. A series of magnetic lows along this trend and the presence of a trench on the baseline at 92 + 50E makes follow-up of this anomaly imperative. Other VLF conductors on the claims, although sometimes strong, are usually on only one line. Nevertheless, follow-up will be necessary on these as well.

CONCLUSIONS AND RECOMMENDATIONS

The results of the magnetic and VLF-EM surveys indicate that although the ground is largely underlain by mafic volcanics, significant coincident mag and VLF-EM anomalies do exist. It is recommended that a MaxMin II survey as well as detail geological mapping and geochemical sampling be carried out over these claims in the spring-summer of 1983.



A. J. Davidson
Senior Exploration Geologist

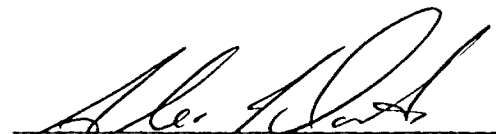
CERTIFICATE OF QUALIFICATIONS

I, Alex J. Davidson, certify that:

1. I am an Exploration Geologist residing at 1425 Hamilton Ave., Thunder Bay, Ontario and have worked as such since 1972.
2. I hold a BSc in Geology from McGill University, 1972 and an MSc in Geology also from McGill University, 1977.
3. I personally supervised the work reported herein.

November 1, 1982

Date



A. J. Davidson



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

File 65.
#2



42D14NW0027 2.5227 PAYS PLAT LAKE

900

In the Expend. Days Cr. columns.
Do not use shaded areas below.

Land Management

The Mining Act

Type of Survey(s) ELECTROMAGNETIC, MAGNETIC		Township or Area PAYS PLAT LAKE G-606
Claim Holder(s) CORPORATION FALCONBRIDGE COPPER		Prospector's Licence No. T-556
Address P. O. BOX 40, COMMERCE COURT WEST, TORONTO, ONTARIO M5L 1B4		
Survey Company NORTHWEST GEOPHYSICS LTD. THUNDER BAY, ONT.	Date of Survey (from & to) 10 10 82 20 10 82	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) A. J. DAVIDSON, c/o CORPORATION FALCONBRIDGE COPPER, 2606 VICTORIA AVE. E. THUNDER BAY, ONT		

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

P7C 1E7

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

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
TB	653958	40			
	653959	40			
	653960	40			
	653961	40			
	653962	40			
	653978	40			
	653979	40			
	653998	40			
	653999	40			

RECEIVED

NOV - 1 1982

MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **OCTOBER 25, 1982** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **360** Date Recorded **October 25, 1982** Mining Recorder *[Signature]*

Total number of mining claims covered by this report of work. **9**

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
A. J. DAVIDSON, c/o CORPORATION FALCONBRIDGE COPPER, 2606 VICTORIA AVENUE, EAST, THUNDER BAY, ONTARIO P7C 1E7

Date Certified **OCTOBER 25, 1982** Certified by (Signature) *[Signature]*

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 3,360 Number of Readings 3,360 Mag, 6720 V.L.F.
Station interval 25 Meters Line spacing 100 Meters
Profile scale 1 cm. = 10^0
Contour interval 250 Gammas

MAGNETIC

Instrument GEOMETRICS G-816 PROTON MAGNETOMETER
Accuracy - Scale constant + 1 Gamma
Diurnal correction method Loop
Base Station check-in interval (hours) 1 - 2 Hours
Base Station location and value B.L. 0 + 00 E, L 97 + 00 E 59,689 Gammas

ELECTROMAGNETIC

Instrument GEONICS E.M.-16
Coil configuration Vertical
Coil separation
Accuracy + 1 Degree
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency CUTLER, MAINE, U. S. A. (specify V.L.F. station)
Parameters measured IN PHASE, QUADRATURE

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
Off time Range
Delay time
Integration time
Power
Electrode array
Electrode spacing
Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY -- PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



Ontario

Ministry of Natural Resources

Technical Assessment Work Credits

File 2.5227

Date 1983 08 05

Mining Recorder's Report of Work No 347

Recorded Holder
CORPORATION FALCONBRIDGE COPPER

Township or Area
PAYS PLAT LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 17 days Magnetometer _____ 17 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 checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 653958 to 62 inclusive 653978-79 653998-99

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

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

[Handwritten signature]

Mining Lands Comments

[Large empty rectangular box for general comments]

To: Geophysics *Mr Barlow*

Comments

[Dashed lines for writing]

Approved Wish to see again with corrections Date *May 11 / 83* Signature *R Barlow*

To: Geology - Expenditures

Comments

[Dashed lines for writing]

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

[Handwritten mark]

[Dashed lines for writing]

Approved Wish to see again with corrections Date Signature

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

347

1982 12 09

2.5227

Corporation Falconbridge Copper
P.O. Box 40
Commerce Court West
Toronto, Ontario
M5L 1B4

Dear Sirs:

We have received reports and maps for a Geophysical
(Electromagnetic and Magnetometer) Survey submitted under
Special Provisions (credit for Performance and Coverage)
on Mining Claims TB 653958 et al in the area of Pays Plat
Lake.

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

Since we required only two copies of the report and maps,
we are returning the third to you.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Mining Recorder
Thunder Bay, Ontario

cc: A.J. Davidson
c/o Corp Falconbridge Copper
Thunder Bay, Ontario

2.5227

347

1983 08 31

2.5227

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Geophysical (Electromagnetic & Magnetometer) Survey
on Mining Claims TB 653958 et al in the area of Pays
Plat Lake.

The Geophysical (Electromagnetic & Magnetometer) Survey assessment
work credits as listed with my Notice of Intent dated August 5,
1983 have been approved as of the above date.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

R. Pichette:sc

cc: Corporation Falconbridge Copper
Toronto, Ontario

cc: Resident Geologist
Thunder Bay, Ontario



Ministry of
Natural
Resources

Ontario

Aug 26/83

Your file: #347

Our file: 2.5227

1983 08 05

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

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. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

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

R. Pichette:mc

cc: Corporation Falconbridge Copper
P.O. Box 40
Commerce Court West
Toronto, Ontario
M5L 1B4

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

Encls:



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 08 05
2.5227

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.

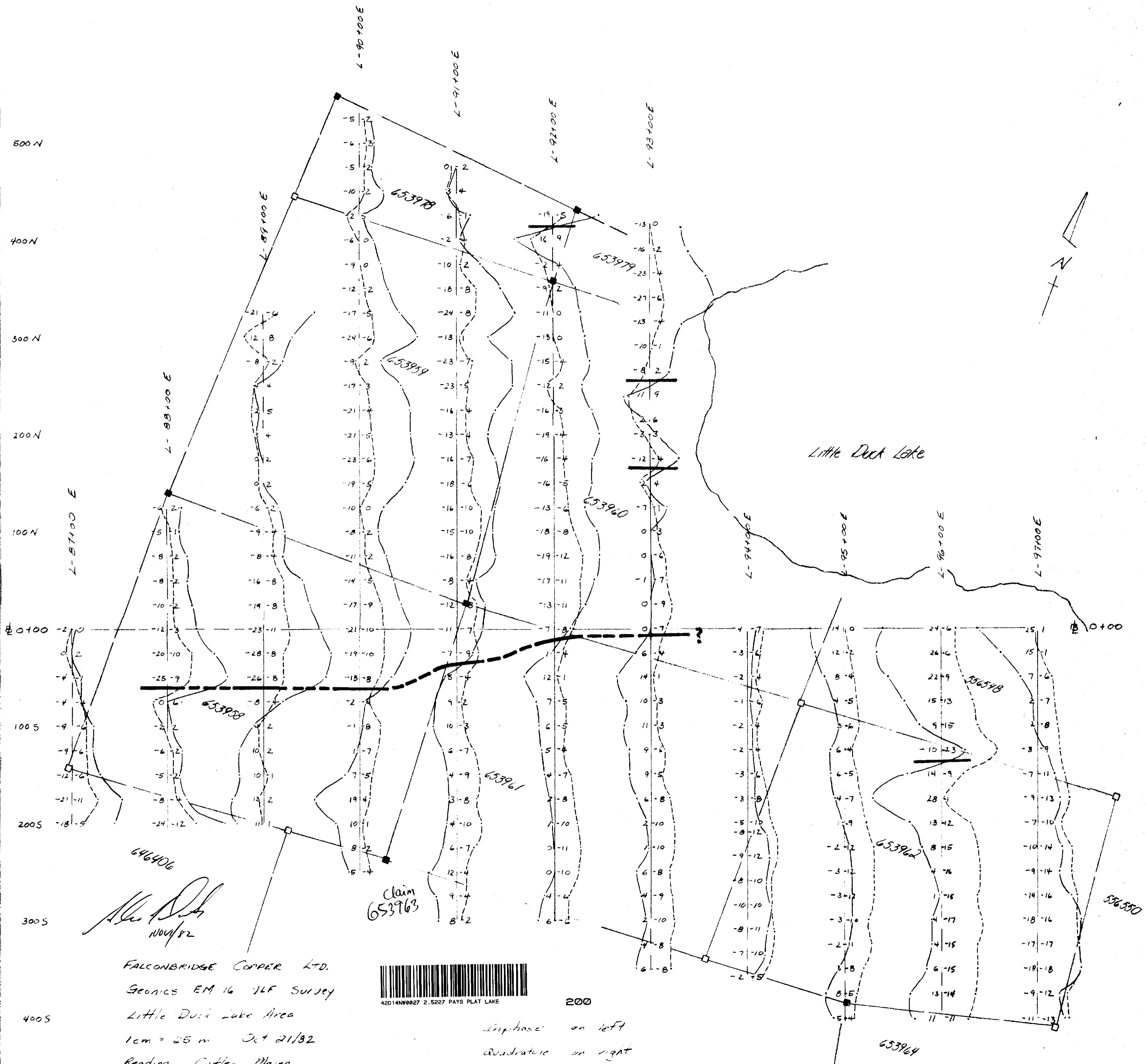
If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

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 Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

File no. 2.5227

	Em	mag		Em	mag			
TB 653958	✓	✓	653978	1/2	1/2			
59	✓	✓	79	3/4	3/4			
60	1/4	1/4	653998	✓	✓			
61	✓	✓	99	✓	✓			
62	✓	✓		(17)	(17)			
			9claim					
			125 1.5					
			$\frac{9 \times 20}{100}$					



Alfred P. ...
10/04/82

FALCONBRIDGE COPPER LTD.
Geonics EM 16 VLF Survey
Little Duck Lake Area
1cm = 25m Oct 21/82
Reading Cutler Maine
Facing North 05227

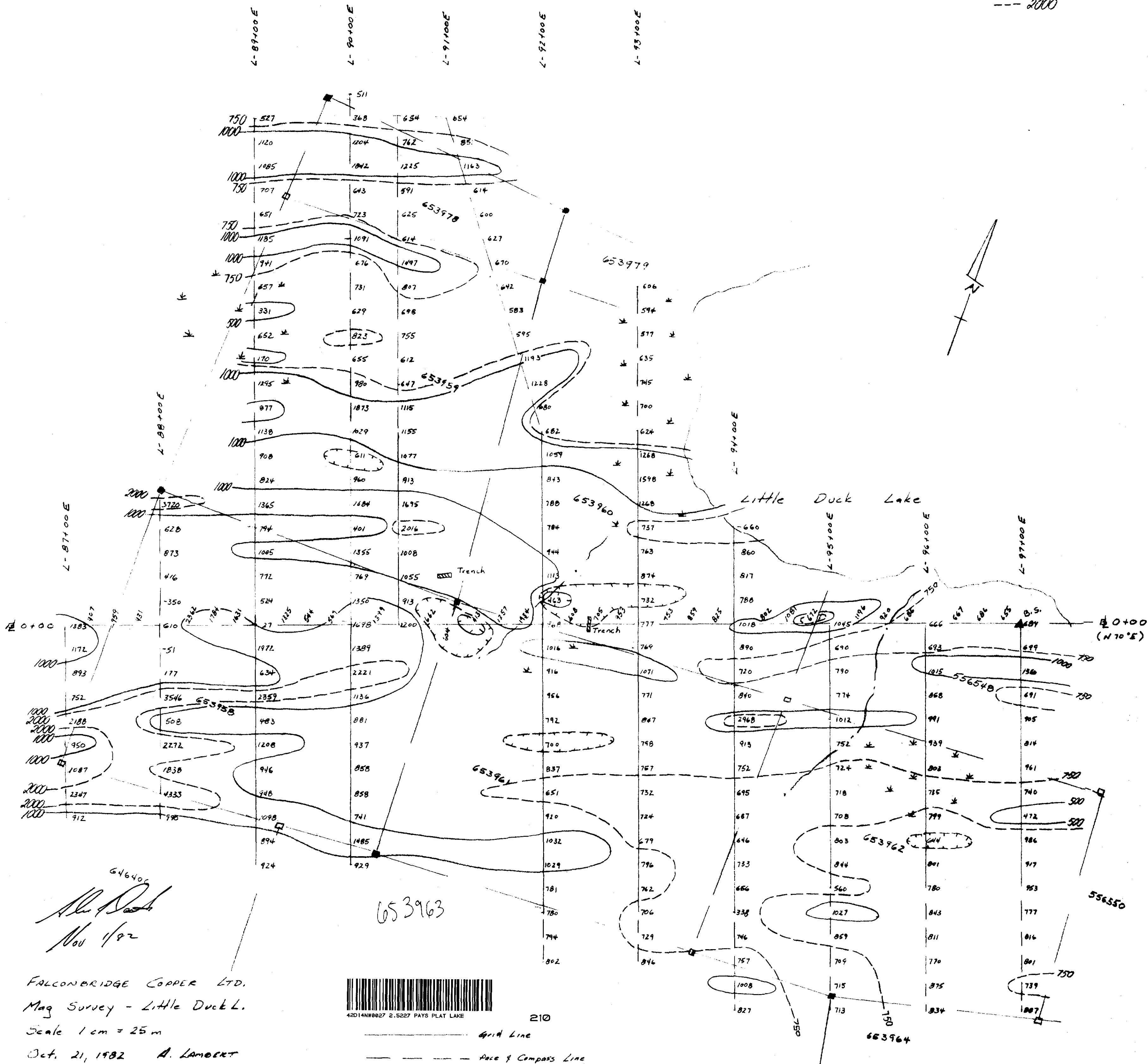
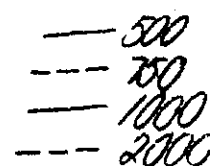


200

Inphase on left
Quadrature on right
1cm = 10°

Surveyed by Northwest Geophysics Ltd

Contour Intervals



646406
A. Lamockt
Nov 1/82

653963

FALCONBRIDGE COPPER LTD.
Mag Survey - Little Duck L.
Scale 1 cm = 25 m

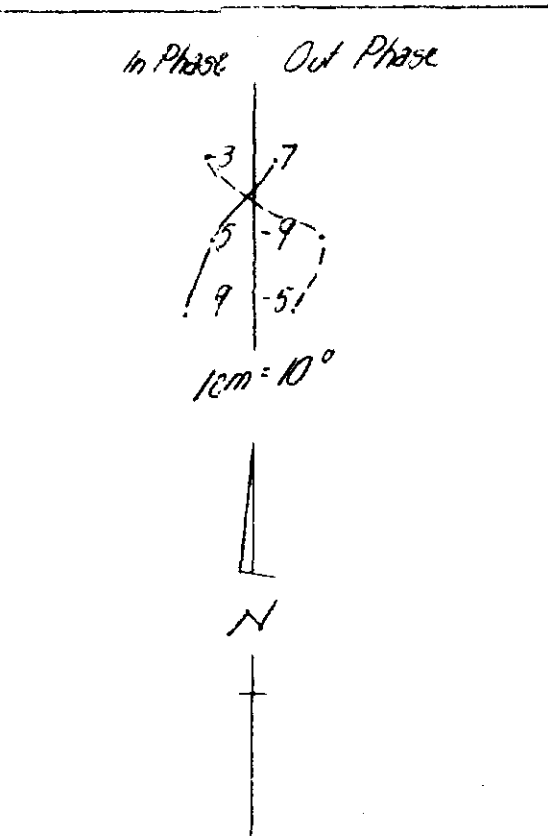
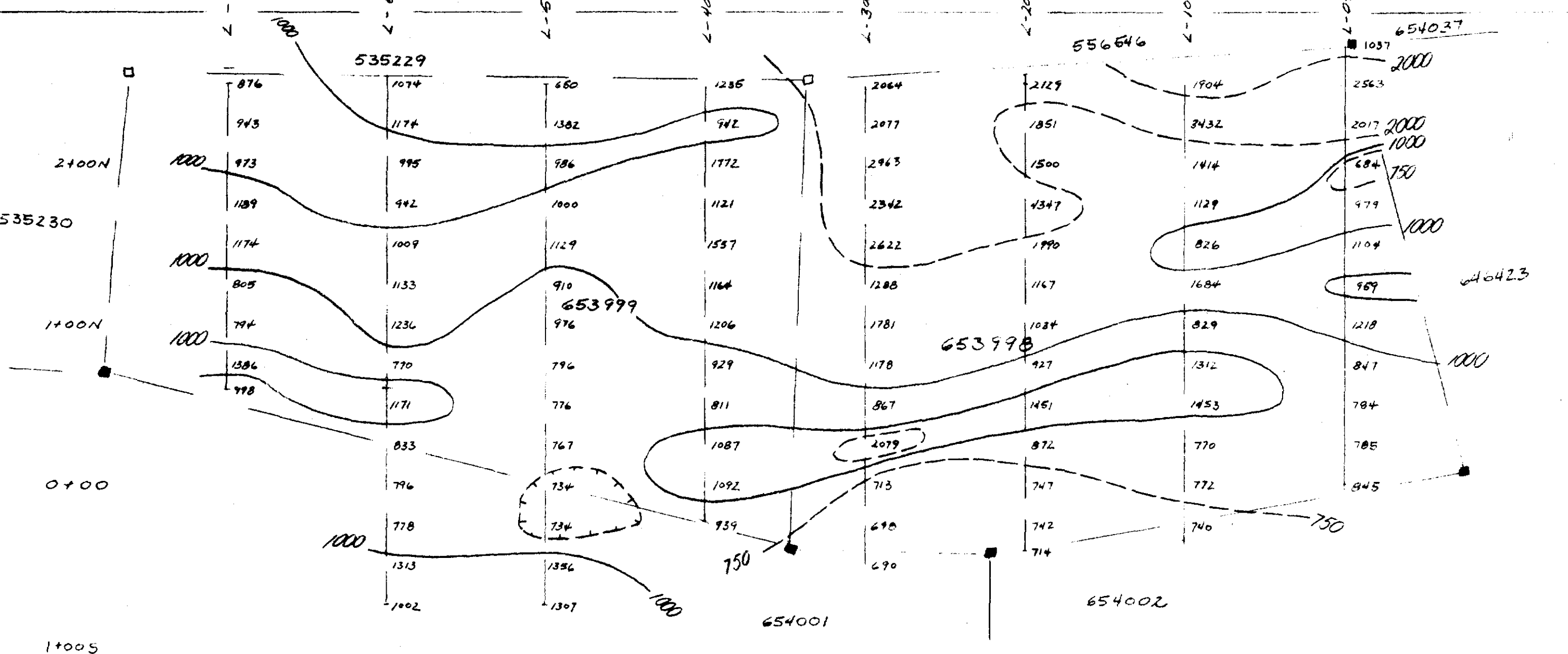
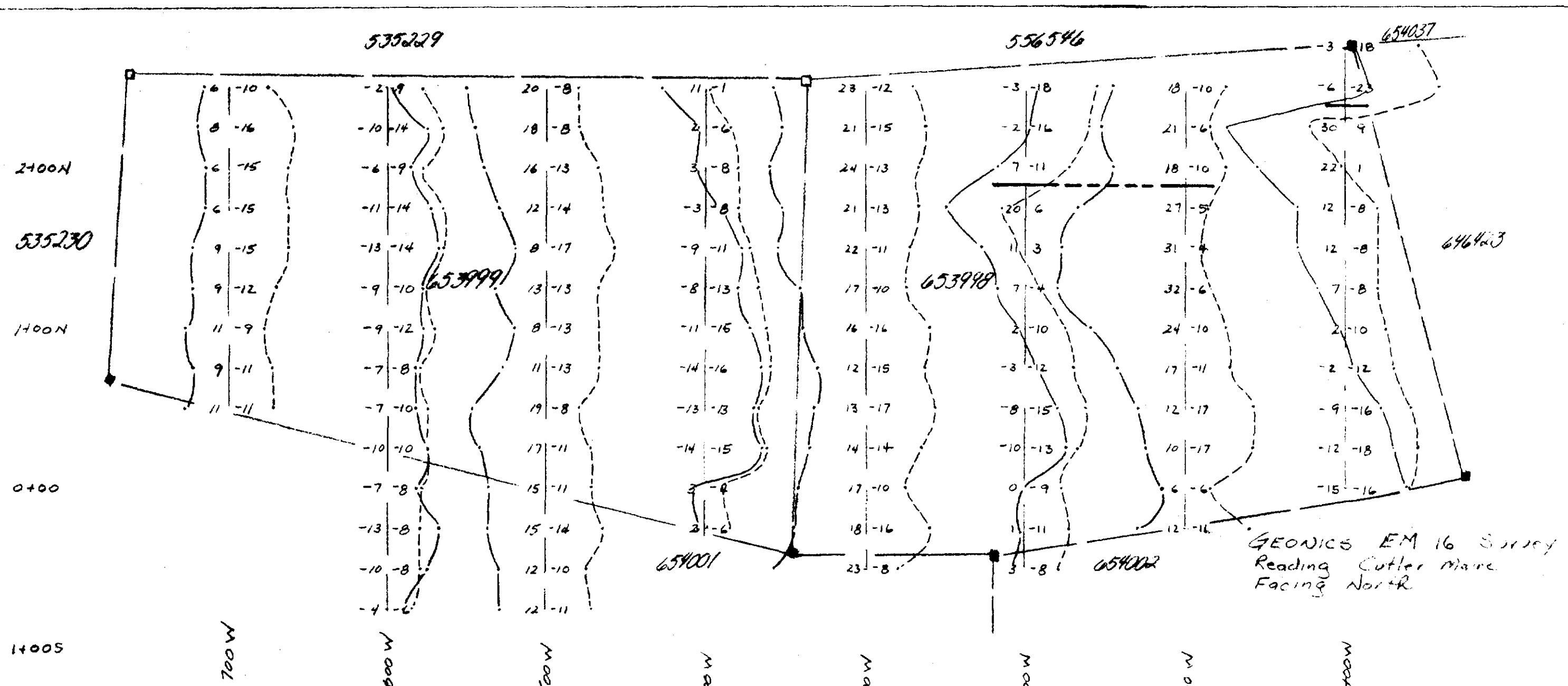


210

Grid Line
Pace & Compass Line

Oct. 21, 1982 A. Lamockt
Inst. Geometrics 816 Proton Mag
Readings reduced by 59,000 & 2.5227

Surveyed by Northland Geophysics Co.



contour intervals

--- 2000
— 1000
--- 750

Note: face & compass only

Al. Park
Nov 11/82

FALCONER USE COVER LTD

GEOPHYSICAL SURVEYS
Little Duck Lake Area
1cm = 25m Oct 21/82 25227
Surveyed by Northwest Geophysics Ltd

