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GEOPHYSICAL SURVEYS

17067

NORTHAIR MINES OPTION

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

NTS 92J/3

OWNERS: FALCONBRIDGE LIMITED
NORTHAIR MINES LIMITED

OPERATOR: FALCONBRIDGE LIMITED

BY

field copy

DELTA GEOSCIENCE LTD.

NOVEMBER 17, 1988.

G.A. HENDRICKSON, P.GEOPH.

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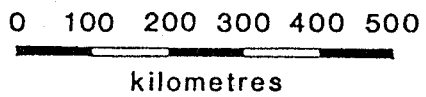
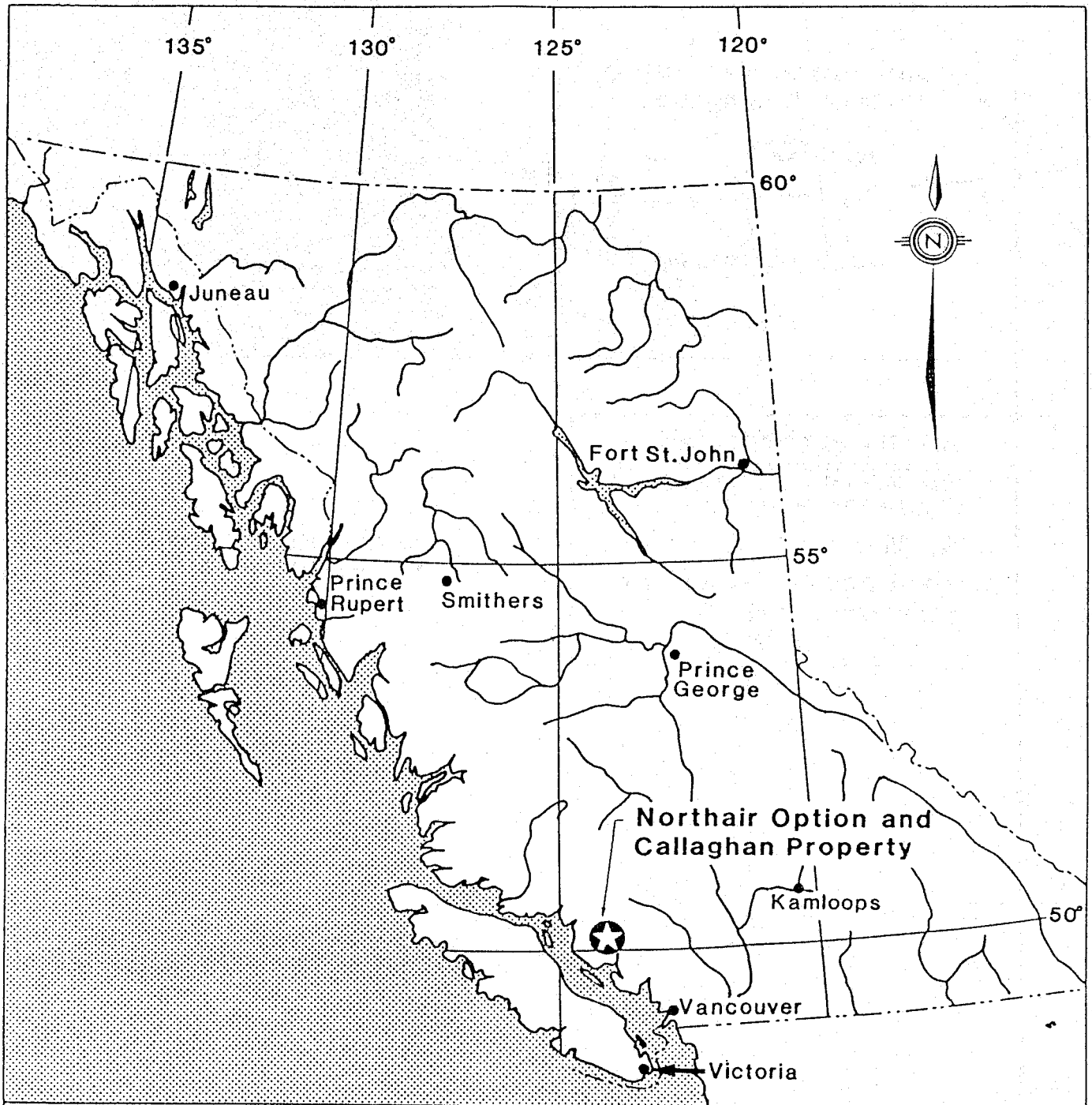
INTRODUCTION

This report is concerned with the geophysical work carried out by Delta Geoscience Ltd., on the Northair option during the period October 25 to November 9, 1988. This work was done on behalf of Falconbridge Limited, the operator, who has the option to acquire the Northair Mines claims.

The project was initiated to explore the Gambier Volcanic rocks for volcanogenic massive sulphide deposits. The Gambier Group exists as a large pendant (the Callaghan Creek Pendant), within the Coast Plutonic Complex. The survey area is near the town of Whistler, B.C., NTS 92J/3.

Falconbridge Limited contracted the geophysical program to Delta Geoscience Ltd. G. Hendrickson, the author of this report and Senior Geophysicist for Delta Geoscience Ltd. planned and supervised the work in consultation with Steve Enns, the Senior Project Geologist for Falconbridge Limited.

The geophysical program was designed to have good lateral resolution to help evaluate an area of interesting geology outlined by Falconbridge during 1988. Approximately 5km each of VLF/MAG/GRAD/I.P/RESISTIVITY survey were completed.



Falconbridge Limited
 NORTHAIR OPTION AND
 CALLAGHAN PROPERTY
LOCATION MAP
 Vancouver Mining Division
 British Columbia
 NTS: 92 J/03

Figure 1

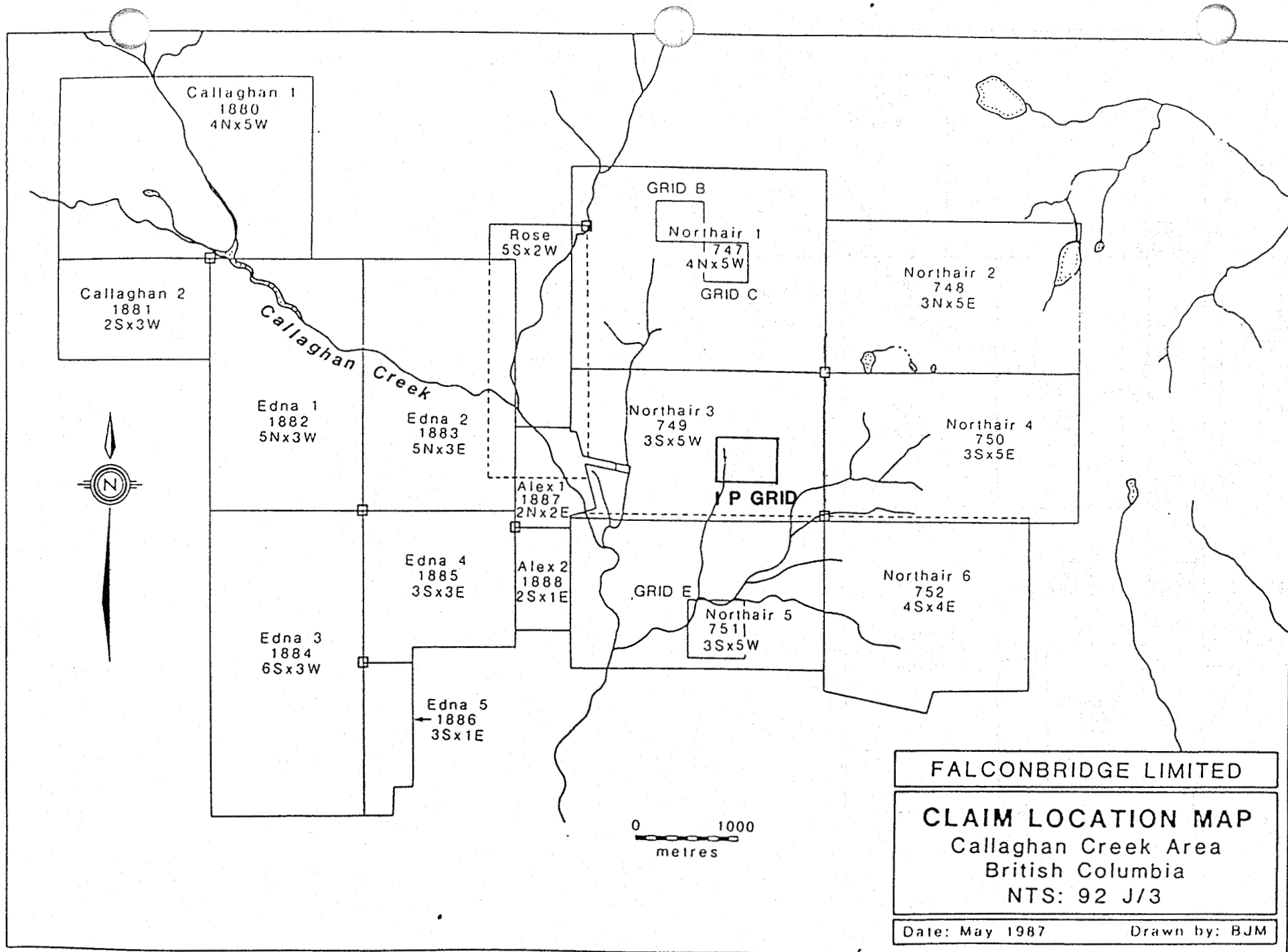


Figure 2

PERSONNEL - Delta Geoscience Ltd.

Grant Hendrickson - Senior Geophysicist/Supervisor
Tim Tokarsky - Geophysicist/Crew Chief
Rick Ofner - Junior Geophysicist
Two local helpers.

EQUIPMENT

- 1 - B.R.G.M. IP-2 Receiver.
- 1 - Hunttec LOPO Transmitter, 200 watt.
- 4 - Portable VHF Radios.
- 1 - Scintrex I.G.S. II system, configured as a
VLF/MAG/GRADIOMETER.
- 1 - Scintrex MP-3 Base Station Magnetometer.
- 1 - Toshiba T3100 Computer.
- 1 - H.P. Quietjet Printer.

DATA PRESENTATION

Stacked profile plans of the filtered VLF, Magnetic, Gradiometer, Resistivity and Chargeability have been prepared at a scale of 1:2000.

The Chargeability, Resistivity, Magnetics and VLF data is also presented in a contoured plan format at 1:2000.

Profiles aid in interpretation since profile shape (the wavelength) is directly related to the depth, attitude and width of anomalous areas. Profile data is presented increasing to the top of the map from a base level (value at the line position). Stacked profiles also give an overall view of the data prior to any contouring bias.

Contoured plans give a good spatial view of the data.

Separate profile sections of the VLF data is also given with the Fraser and Hjelt filtered values posted below the profiles. The scale of these sections is 1:1000. This data is appended to the back of this report.

SURVEY PROCEDURE

Delta Geoscience constructed the grid after being shown the area by Falconbridge personnel. Bush conditions were not severe, thus minimal line cutting was required. Station interval was set at 20 meters horizontal. Lines were spaced approximately 100 meters apart.

Some adjustments to the grid were required to facilitate computer plotting of the results. The following table illustrates these adjustments:

- L.1+00N - 30m. added to each station.
- L.2+00N - No adjustment.
- L.3+00N - No adjustment.
- L.4+00N - No adjustment.
- L.5+00N - 30m. subtracted from each station.
- L.6+00N - 10m. subtracted from each station.
- L.7+00N - 80m. subtracted from each station.

These adjustments were necessary to give all the lines a common zero. The reader must use this table when referencing data from the maps back to the field station labels.

The surveys were designed to have good lateral resolution, good signal to noise response and good mobility to help solve four main problems:

- a) spatial position and strength of near surface sulphide zones.
- b) spatial position of structures.
- c) to give a good indication of the lithology present under the overburden.
- d) cost effective surveying in rough terrain.

It was expected that the Induced Polarization would respond primarily to sulphide zones and moderately to changes in lithology. The Resistivity survey was expected to respond primarily to the lithology and only moderately to sulphide zones. The V.L.F. survey was expected to respond equally well to both sulphides and/or structures. The magnetics were expected to respond primarily to near surface pyrrhotite/magnetite mineralization and moderately to lithology due to slight changes in the magnetite content of the different units.

Induced Polarization and Resistivity:

The Schlumberger electrode configuration was chosen for this survey. Current electrode separation, AB, was set at 220 meters. Potential electrode separation, MN, was set at 20 meters. This array gives excellent horizontal resolution, with the prime depth of investigation at the 30 to 50 meter depth range. The array gives better signal to noise response, when compared to other arrays for the same depth of investigation - an important consideration when using the battery-powered 200 watt portable transmitter. Some general information on dip is also obtained by using the Schlumberger array.

V.L.F.:

The magnetic and V.L.F. surveys were performed simultaneously. V.L.F. measurements were taken every 10 meters along the grid lines. The Seattle V.L.F. station, NLK, transmitting at 24.8 khz was chosen as the transmitter. This station is approximately on strike with the expected strike of the geology, thus provides good electromagnetic coupling and excellent primary field strength for any conformable conductor.

Three components of the V.L.F. electromagnetic field were measured: the horizontal field strength, vertical in-phase and vertical quadrature. All of the vertical in-phase data was subsequently filtered using the Fraser and Hjelt filters. This filtering helps to understand the spatial position of conductors, both along strike and downdip. These filtering techniques are referenced at the back of this report.

Magnetics:

Measurements of the total magnetic field strength were taken every 10 meters along the grid lines. Accuracy of the portable magnetometer readings is ± 1 nanotesla. An aluminium staff was used to keep the two magnetic sensors approx. 2.5 and 3.0 meters above the ground.

Magnetic field measurements were corrected for any diurnal variation, through the use of the MP-3 base station magnetometer. A base station standard of 56700 nanotesla was assumed for this grid.

Gradiometer Survey:

The magnetic gradiometer survey (vertical gradient) is a useful adjunct to magnetic surveying. The gradiometer acts like a filter, in that it enhances local near surface anomalies at the expense of longer wavelength regional anomalies. The rate of fall-off of the magnetic field with height is much higher for local sources than for regional sources, thus a higher gradient (rate of change) can be recorded using sensors 1.0 meters vertically apart.

A useful feature of the gradiometer data is that it allows a simple calculation to be made for the depth of an anomaly (assuming a dipole field).

$$d = \frac{-3 \text{ (total field anomaly)}}{\text{gradient anomaly}}$$

DISCUSSION OF THE DATA

Chargeability:

This set of data suggests that the northwest corner of the grid has a higher sulphide content (approx. 2-3%), than the rest of the grid. A sulphide centre may lie to the north of this grid.

The broad moderate strength chargeability anomaly centered at 3+70W and 6+70N is likely due to a relatively deep (30 to 40m), steeply east dipping source.

The stronger chargeability anomaly that flanks the west side of this broad chargeability at approx. 5+00W is probably due to a narrow near surface, steep west dipping source (10m. depth).

It is interesting to note that these two anomalies lie within an area of relatively quiet magnetics, which may be indicating felsic volcanic host rock. The areas of higher magnetic field strength (mafic rocks?) generally have a lower chargeability (sulphide?) background.

The chargeability and magnetic plans both indicate an abrupt change in the lithologies from the northwest corner to the southeast corner. This may be a facies change, or could be an offset due to a northeast trending fault that crosses the grid from the northeast corner to the southwest corner.

Resistivity:

This set of data appears to be mapping the lithology, however it must be closely correlated with the outcrops to calibrate the responses better. In general, felsic flows should be above 3000 ohm-m and mafic flows in the 2000 ohm-m range. Tuffs are more likely to be in the 1000 ohm-m range.

The resistivity profiles generally indicate a steep east dip to the geology of this grid. A modest resistivity low (900 ohm-m) appears to correlate with the north extension of the strongest I.P. anomaly. The lowest resistivities (sediments?) occur on the extreme west side of the grid.

Magnetics:

As mentioned earlier, there is a close association of the magnetic field strength with the chargeability data.

Numerous magnetic anomalies in the southeast corner of the grid are due to erratic concentrations of magnetite, likely within a more mafic host rock. Line to line correlation of these anomalies is not good. Dips appear very steep but variable in direction.

The intense magnetic low at 5+25W on line 6+00N is due to a near surface (20m. depth) magnetic zone dipping steeply west. Strong remanent magnetism is suspected. It is interesting to note that this zone is immediately west of the stronger I.P. response.

Gradiometer:

This set of data accurately defines the areas of near surface high magnetic susceptibility and could be used to define depths (overburden thickness) further, if necessary.

V.L.F.:

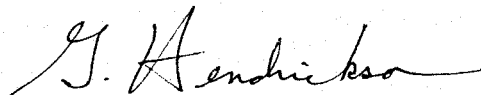
The most dominant feature of this set of data is the strong anomaly from the abandoned powerline that runs along the east side of the grid at approx. 1+00W.

A much weaker V.L.F. anomaly crosses the grid at approx. 3+00W. This weak anomaly appears to have a near vertical dip, however the reader should refer to the Hjelt filter sections if more information on this structure(?) is required. As this anomaly does not correlate with any chargeability response, it is of minor interest only.

CONCLUSION AND RECOMMENDATIONS

The chargeability anomalies, although modest, lie in areas of interesting geology, thus deserve more attention. The area to the immediate north of the grid deserves more study, since the sulphide content of the rocks appears to be increasing in that direction.

The chargeability and magnetic data sets appear to correlate well in the mapping of favourable lithology, which should be useful as a guide to expanding the geological map of the area.



Grant A. Hendrickson, P.Geoph.


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- Coggon, J.H., 1973: A Comparison of I.P. Electrode Arrays: *Geophysics*, Vol.38, 737-761.
- Fraser, D.C., 1969: Contouring of VLF-EM Data: *Geophysics* 34. 958-967.
- Karous, M., and Hjelt, S.E., 1983: Linear Filtering of V.L.F. Dip-Angle Measurements: *Geophysical Prospecting*.

STATEMENT OF QUALIFICATION

Grant A. Hendrickson

- B.Science, U.B.C. 1971, Geophysics option.
- For the past 17 years, I have been actively involved in mineral exploration projects throughout Canada and the United States.
- I am a registered Professional Geophysicist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
- I am an active member of the S.E.G., E.A.E.G., and B.C.G.S.

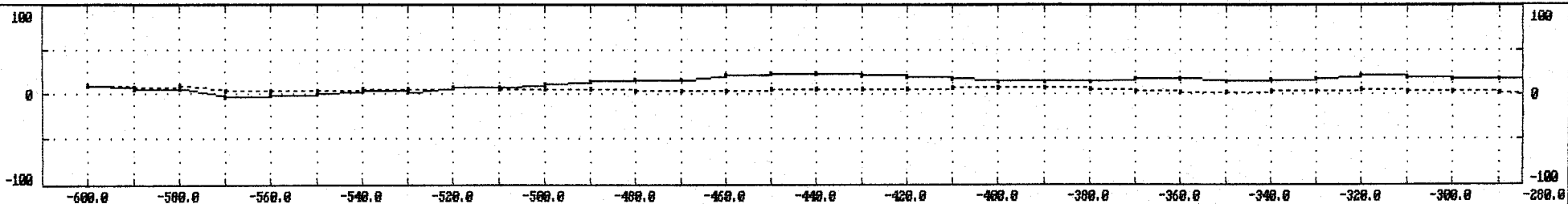


Grant A. Hendrickson, P.Geoph.

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 100N, OCT 88 GRID, NORTH AIR

QZ	9.0	8.0	9.0	3.0	4.0	4.0	5.0	6.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	5.0	6.0	6.0	6.0	7.0	8.0	8.0	6.0	4.0	2.0	2.0	3.0	4.0	5.0	4.0	3.0	2.0	3.0
IX	9.0	6.0	6.0	-3.0	-2.0	0.0	3.0	2.0	0.0	0.0	10.0	14.0	16.0	16.0	21.0	23.0	23.0	21.0	20.0	18.0	15.0	15.0	15.0	17.0	17.0	15.0	16.0	17.0	22.0	19.0	17.0	17.0	20.0
FRFLT	12.0	17.0	5.0	-8.0	-7.0	-7.0	-11.0	-8.0	-8.0	-12.0	-8.0	-7.0	-12.0	-9.0	0.0	5.0	6.0	8.0	8.0	3.0	-2.0	-4.0	0.0	3.0	-1.0	-8.0	-8.0	3.0	7.0	-1.0	-3.0	9	

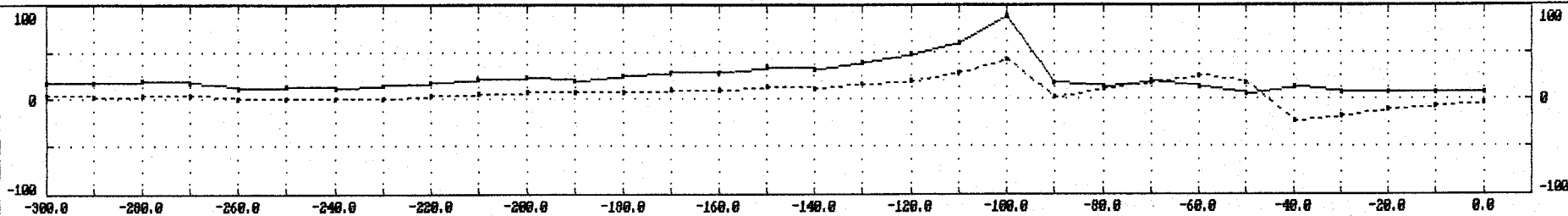


10.0	4.1	1.9	5.6	4.7	-1.5	-2.7	-1.7	-3.6	-4.4	-1.7	-4.3	-4.2	-2.0	-3.6	-4.2	-1.2	0.9	2.0	2.0	3.3	1.8	0.2	-0.7	-1.2	1.0	-0.2	-1.0	-3.1	-1.3	2.4	1.0	-0.7
20.0	0.8	7.9	5.3	2.6	1.5	-2.9	-6.1	-4.5	-4.4	-8.4	-6.0	-5.4	-7.0	-5.9	-4.1	-3.3	0.0	2.4	4.0	3.1	3.0	0.8	-1.3	0.1	0.2	0.3	-3.2	-2.4	0.0	0.6	1.4	0.9
30.0	3.4	4.4	5.0	1.5	0.7	-2.8	-7.5	-7.6	-7.9	-6.9	-7.6	-7.0	-9.2	-8.1	-5.2	-3.3	-2.2	2.7	3.6	3.2	1.4	1.2	1.5	-0.6	-0.7	-2.8	0.1	1.0	-0.9	-2.8	-1.1	5.2
40.0	0.0	0.7	0.5	2.9	-1.9	-3.3	-3.9	-10.7	-10.5	-9.0	-9.9	-11.1	-8.2	-7.3	-5.9	-3.4	-1.4	-1.0	2.3	2.0	2.5	2.6	1.9	0.4	-3.6	-2.3	-1.3	-0.3	-2.0	-1.1	2.5	2.1
50.0	-3.9	-3.6	-0.9	-2.3	0.0	-2.3	-6.1	-7.2	-12.4	-14.6	-14.1	-12.0	-11.2	-6.9	-5.2	-2.7	-0.9	0.0	-1.8	1.6	3.7	3.3	1.3	-2.1	-2.6	-3.2	-2.4	-4.1	-1.3	2.9	1.1	2.2
60.0	-7.2	-4.6	-5.6	-3.6	-3.0	-3.7	-6.4	-7.9	-10.9	-17.0	-16.8	-14.0	-11.1	-10.2	-5.1	-3.9	-1.6	-0.6	0.1	0.6	2.3	1.3	-2.0	-1.0	-0.9	-2.2	-5.0	-3.8	0.1	0.2	0.4	-3.3

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 100N. OCT 88 GRID, NORTHAIR

QZ	3.0	2.0	3.0	3.0	0.0	0.0	0.0	1.0	4.0	6.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	16.0	20.0	29.0	42.0	2.0	10.0	18.0	25.0	17.0	-23.0	-17.0	-10.0	-6.0	-4.0
IX	17.0	17.0	20.0	17.0	11.0	12.0	11.0	14.0	18.0	22.0	24.0	20.0	25.0	20.0	20.0	34.0	32.0	39.0	40.0	60.0	89.0	17.0	13.0	19.0	13.0	5.0	13.0	7.0	7.0	8.0	7.0
FRFLT	-1.0	-3.0	9.0	14.0	5.0	-2.0	-9.0	-15.0	-14.0	-4.0	1.0	-9.0	-11.0	-9.0	-10.0	-9.0	-21.0	-37.0	-62.0	2.0	119.0	74.0	-2.0	14.0	14.0	-2.0	4.0	5.0	-1.0		

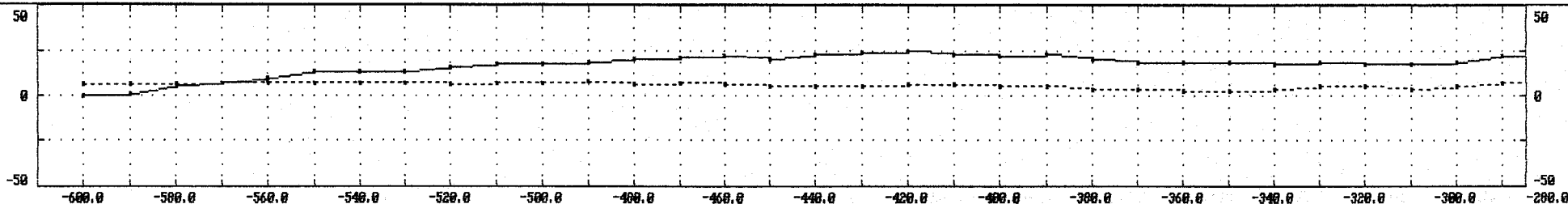


10.0	0	-0.7	0.4	5.4	2.6	0.0	-1.2	-4.7	-4.5	-4.4	0.1	-1.2	-5.5	-1.7	-4.9	-3.9	-4.9	-13.7	-6.7	-22.4	24.1	43.0	0.0	7.0	8.9	-0.1	-0.4	4.2	-1.1	0.6	0.7
20.0	4	0.9	2.5	2.0	4.9	1.9	-4.5	-6.6	-7.3	-4.2	-5.1	-4.9	-5.2	-11.5	-9.8	-3.3	-6.3	-15.1	-31.6	13.8	20.0	23.7	43.1	6.8	-0.7	11.6	11.4	-1.3	3.7	1.5	0.5
30.0	1	5.2	3.7	2.8	0.5	0.0	-4.1	-7.7	-6.1	-10.0	-11.0	-11.1	-4.5	-2.0	-7.2	-13.4	-17.7	-33.0	10.4	11.0	11.6	19.9	31.5	43.0	6.0	2.8	4.7	7.0	4.1	11.3	1.0
40.0	5	2.1	5.3	1.2	-1.8	-4.4	-5.1	-5.4	-14.4	-7.7	-7.0	-8.7	-2.8	-8.0	-12.6	-21.1	-35.8	5.6	8.2	8.4	10.8	19.5	20.2	29.5	46.4	5.4	3.2	6.6	1.4	2.0	7.7
50.0	1	2.2	0.4	0.0	-5.3	-10.4	-0.9	-1.3	-4.8	-6.7	-7.1	-11.5	-13.4	-15.2	-20.1	-35.9	2.8	7.7	5.5	8.1	15.9	10.4	17.7	23.0	29.6	46.3	5.7	3.6	6.9	2.9	-2.6
60.0	4	-3.3	-7.3	-1.1	0.9	0.9	-1.9	-2.2	0.0	-0.7	-11.5	-14.2	-20.0	-25.7	-39.3	3.3	7.5	1.6	7.6	13.6	9.2	15.4	13.6	17.3	22.5	29.5	46.2	6.0	4.2	6.8	3.5

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 200N. OCT 88 GRID, NORTH AIR

Q%	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	7.0	8.0	6.0	7.0	6.0	5.0	5.0	5.0	6.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	5.0	5.0	4.0	5.0	7.0	6.0
IX	0.0	1.0	5.0	7.0	10.0	13.0	13.0	13.0	16.0	18.0	18.0	19.0	20.0	21.0	22.0	20.0	23.0	24.0	25.0	23.0	22.0	23.0	20.0	19.0	19.0	19.0	18.0	19.0	18.0	18.0	19.0	22.0	20.0
FRFLT		-11.0	-11.0	-11.0	-9.0	-3.0	-3.0	-8.0	-7.0	-3.0	-3.0	-4.0	-4.0	-1.0	0.0	-5.0	-6.0	-1.0	4.0	3.0	2.0	6.0	5.0	1.0	1.0	1.0	0.0	1.0	0.0	-5.0	-5.0	4.0	9

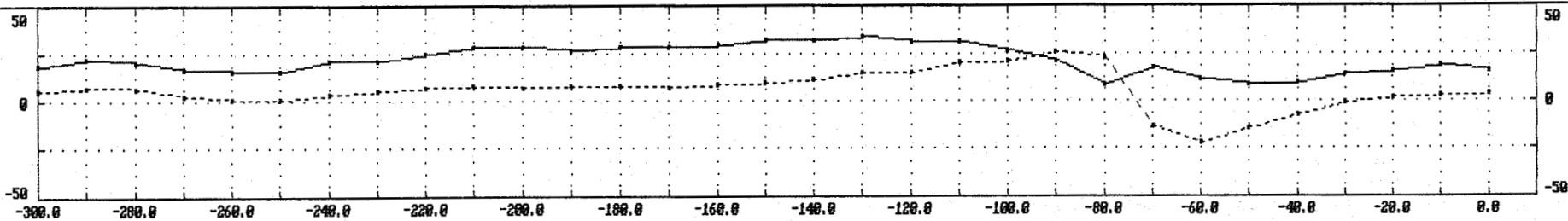


10.0	-2.0	-3.3	-4.3	-3.4	-4.1	-2.5	-0.8	-2.2	-3.1	-1.5	-1.1	-1.6	-1.1	-1.6	0.2	-0.9	-2.3	-0.9	0.2	1.9	0.2	1.5	2.5	0.7	0.3	0.8	0.0	-0.1	0.3	-0.6	-1.9	-0.4	10.0
20.0	-2.9	-5.2	-6.0	-7.5	-5.4	-4.5	-4.6	-4.1	-3.9	-4.2	-3.0	-2.4	-3.1	-1.2	-1.9	-2.0	-1.8	-1.6	0.5	0.7	3.0	2.1	1.8	2.6	1.5	-0.2	0.7	1.4	-0.1	-1.5	-1.4	0.2	20.0
30.0	-2.7	-5.7	-8.7	-7.5	-7.1	-6.7	-6.8	-5.7	-5.0	-5.7	-6.0	-4.5	-2.0	-3.2	-3.1	-3.1	-1.6	-0.2	-1.8	1.6	2.7	3.4	1.8	2.1	2.2	1.8	1.3	0.1	-1.7	-1.6	0.7	0.4	30.0
40.0	-2.8	-5.8	-7.2	-8.3	-9.1	-9.8	-7.7	-7.1	-6.1	-5.3	-5.9	-5.1	-5.2	-4.6	-4.8	-3.1	-1.8	-1.6	0.5	-0.4	1.7	2.7	4.0	2.7	2.0	2.4	-0.3	-2.9	-1.1	0.7	1.1	1.7	40.0
50.0	-2.8	-4.3	-5.7	-8.7	-10.9	-9.8	-9.8	-7.8	-7.2	-6.3	-3.9	-5.7	-7.0	-6.2	-4.3	-3.8	-4.1	-1.2	0.2	1.1	0.3	2.2	2.0	2.0	1.4	0.4	-0.4	-1.0	0.4	1.3	0.8	-2.4	50.0
60.0	-1.5	-2.6	-5.4	-8.1	-8.9	-10.6	-10.8	-10.2	-8.6	-6.5	-6.6	-5.7	-6.7	-6.1	-4.2	-3.6	-2.3	-1.6	-1.2	-0.4	0.4	-1.6	0.9	1.8	1.9	-1.0	0.8	2.4	1.1	0.3	-2.1	-1.8	60.0

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 200N, OCT 88 GRID, NORTHAIR

QZ	5.0	7.0	6.0	3.0	1.0	1.0	4.0	5.0	7.0	8.0	7.0	8.0	8.0	7.0	9.0	10.0	12.0	15.0	15.0	20.0	21.0	25.0	23.0	-13.0	-22.0	-14.0	-7.0	-1.0	2.0	3.0	4.0
IX	19.0	22.0	20.0	17.0	16.0	16.0	21.0	21.0	25.0	28.0	28.0	27.0	28.0	28.0	29.0	32.0	32.0	34.0	31.0	31.0	27.0	21.0	9.0	18.0	12.0	9.0	10.0	14.0	16.0	19.0	16.0
FRFLT	-5.0	4.0	9.0	5.0	-4.0	-10.0	-9.0	-11.0	-10.0	-2.0	1.0	-1.0	-2.0	-5.0	-7.0	-5.0	-1.0	4.0	7.0	14.0	28.0	21.0	0.0	6.0	11.0	-3.0	-11.0	-11.0	-5.0		

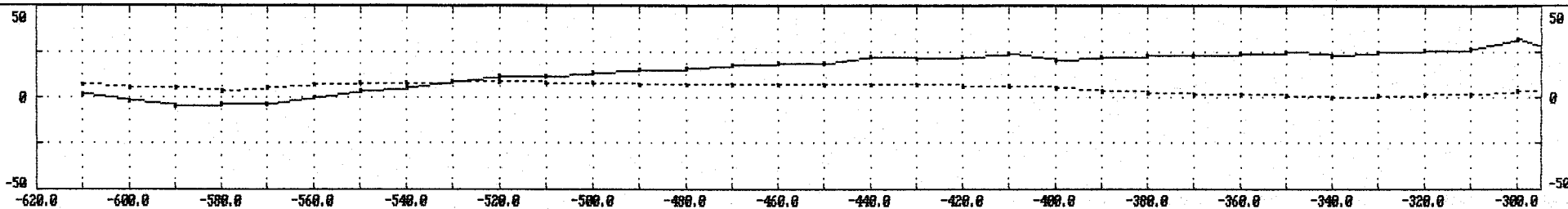


10.0	9	-0.4	2.8	1.7	0.7	-3.1	-3.4	-2.8	-4.6	-2.0	0.0	-0.4	-0.9	-0.7	-2.7	-1.6	-1.3	0.7	2.5	3.8	5.9	11.3	3.0	-0.7	5.8	0.2	-2.7	-3.2	-3.1	-0.5	1.6
20.0	4	0.2	1.1	2.6	-1.2	-2.8	-5.5	-6.8	-4.1	-4.2	-2.8	-1.2	-1.2	-3.5	-2.3	-2.4	0.8	1.1	3.3	8.4	13.1	7.7	8.8	7.3	0.3	3.7	-0.7	-5.2	-3.8	-0.4	0.2
30.0	7	0.4	0.7	-1.5	0.2	-3.4	-7.0	-7.8	-7.3	-4.3	-3.9	-1.9	-2.1	-0.9	-4.0	-1.2	-1.6	2.1	6.7	13.0	8.7	10.8	12.6	10.0	4.7	-3.1	0.7	-0.9	-1.8	-2.1	0.0
40.0	1	1.7	-1.9	-2.1	-4.0	-4.4	-5.1	-6.0	-6.9	-6.2	-2.9	-5.3	-2.6	-1.7	-1.4	-2.1	-0.2	2.5	10.7	7.6	11.5	14.8	12.3	9.8	6.5	1.4	-3.4	2.1	-1.0	-2.0	-0.9
50.0	8	-2.4	-1.7	-4.0	-5.8	-4.8	-1.8	-2.5	-5.3	-5.8	-7.5	-5.4	-7.4	-3.1	-2.0	0.5	3.3	10.7	5.2	9.1	12.3	12.3	11.1	8.7	7.3	6.6	3.2	-3.4	1.9	-1.3	-2.3
60.0	1	-1.8	-4.0	-4.6	-3.5	-3.6	-3.0	-1.2	-3.3	-7.4	-9.1	-10.1	-5.7	-6.1	-1.5	4.1	10.9	5.5	9.1	11.1	10.7	9.6	8.4	7.9	8.4	8.5	6.7	3.5	-3.1	1.8	-1.2

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 300N. OCT 88 GRID, NORTHAIR

QX	7.0	5.0	5.0	4.0	5.0	7.0	8.0	8.0	9.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0	5.0	4.0	3.0	2.0	2.0	1.0	0.0	1.0	2.0	2.0	4.0	2.0	
IX	2.0	-2.0	-4.0	-3.0	-3.0	0.0	4.0	5.0	9.0	12.0	12.0	13.0	15.0	16.0	18.0	19.0	19.0	22.0	21.0	22.0	24.0	20.0	22.0	23.0	23.0	24.0	25.0	23.0	25.0	26.0	27.0	32.0	23.0
FRFLT	7.0	0.0	-4.0	-10.0	-12.0	-10.0	-12.0	-10.0	-4.0	-4.0	-6.0	-6.0	-6.0	-4.0	-4.0	-5.0	-2.0	-3.0	-1.0	4.0	-1.0	-4.0	-2.0	-3.0	-1.0	1.0	-3.0	-5.0	-0.0	-2.0	13.0	14	

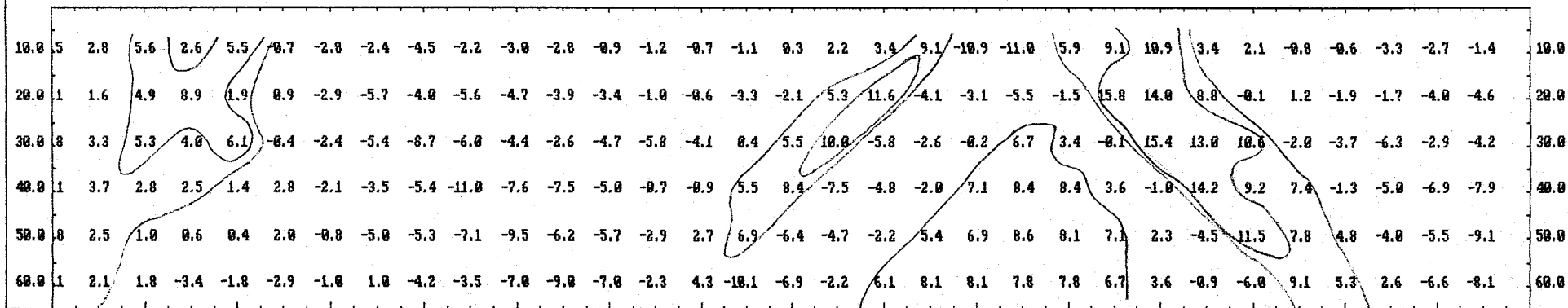
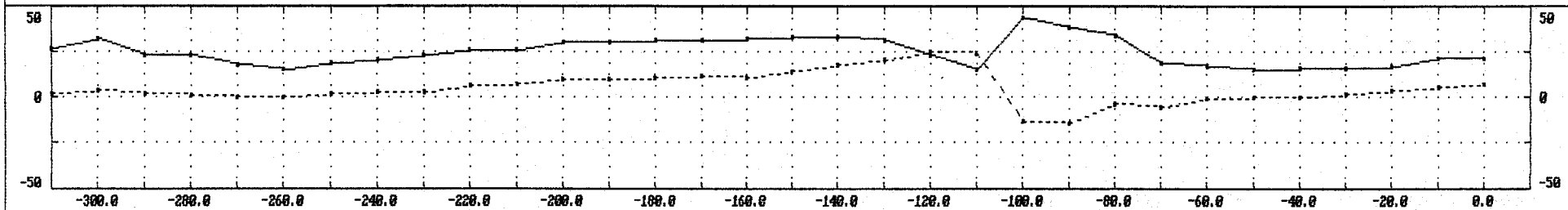


10.0	3.5	3.4	0.7	-0.6	-1.9	-4.8	-3.6	-3.6	-4.8	-2.3	-1.3	-2.4	-2.0	-2.4	-0.8	-2.1	-1.6	0.2	-2.1	1.1	1.0	-1.9	-0.4	-0.7	-1.4	0.4	-0.3	-2.4	-0.4	-3.5	2.8	
20.0	2.1	3.2	1.7	-2.4	-5.1	-4.5	-7.1	-7.6	-5.7	-5.8	-4.8	-3.7	-4.5	-3.2	-3.7	-2.2	-2.5	-3.4	0.5	-1.0	-0.9	0.2	-2.6	-2.2	-0.7	-0.7	-0.9	-0.7	-4.3	1.1	1.6	
30.0	-0.7	0.9	0.8	-2.7	-5.5	-8.9	-9.6	-9.1	-7.8	-6.8	-7.3	-6.6	-5.3	-5.5	-6.5	-4.8	-4.7	-4.4	-1.2	-2.5	-1.5	-2.1	-2.4	-0.0	-1.7	-1.0	-1.0	-1.9	-4.5	0.0	-0.8	3.3
40.0	-2.6	-2.7	-3.6	-2.7	-6.1	-10.2	-11.0	-10.9	-11.8	-9.7	-8.4	-8.3	-6.2	-7.1	-6.9	-6.6	-7.1	-4.2	-3.8	-4.4	-3.1	-1.7	-2.3	0.0	-0.7	-3.7	-3.5	-6.2	-1.0	-0.3	3.1	3.7
50.0	-6.4	-7.0	-6.3	-6.9	-7.0	-8.4	-10.7	-12.9	-13.0	-13.9	-12.4	-10.0	-10.4	-7.5	-6.3	-7.9	-6.2	-5.6	-5.6	-4.1	-3.4	-3.8	-1.6	-3.3	-3.7	-3.3	-0.5	-2.2	-1.4	1.7	3.8	2.5
60.0	-10.5	-9.6	-10.4	-10.1	-8.8	-7.8	-10.3	-13.0	-15.1	-15.1	-15.0	-15.0	-11.9	-11.0	-9.4	-5.4	-5.6	-5.1	-4.9	-5.1	-5.9	-4.6	-6.0	-5.2	-5.8	-0.0	-1.4	-3.3	0.5	2.9	1.1	2.1

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 300N, OCT 88 GRID, NORTHAIR

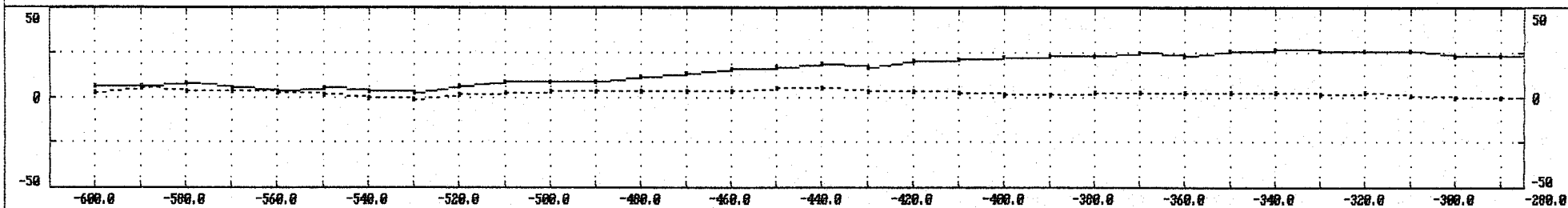
Q%	2.0	4.0	2.0	1.0	0.0	0.0	2.0	3.0	3.0	6.0	7.0	10.0	10.0	11.0	12.0	11.0	14.0	18.0	20.0	25.0	24.0	-13.0	-14.0	-3.0	-5.0	-1.0	0.0	0.0	2.0	4.0	5.0	7.0
I%	27.0	32.0	23.0	23.0	18.0	15.0	19.0	20.0	23.0	26.0	26.0	30.0	30.0	31.0	31.0	32.0	33.0	33.0	31.0	23.0	15.0	43.0	30.0	34.0	19.0	17.0	15.0	16.0	16.0	17.0	21.0	21.0
FRFLT	-2.0	13.0	14.0	13.0	7.0	-6.0	-9.0	-10.0	-9.0	-7.0	-8.0	-5.0	-2.0	-2.0	-3.0	-3.0	1.0	12.0	26.0	-4.0	-43.0	-14.0	28.0	36.0	21.0	5.0	0.0	-2.0	-6.0	-9.0		



FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 400N. OCT 88 GRID, NORTH AIR

QZ	3.0	5.0	4.0	4.0	3.0	2.0	0.0	-1.0	2.0	3.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	4.0	4.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	1.0	0.0	0.0	0.0
IX	6.0	6.0	8.0	5.0	4.0	5.0	4.0	3.0	6.0	9.0	9.0	9.0	12.0	13.0	16.0	17.0	19.0	17.0	20.0	21.0	22.0	23.0	23.0	25.0	23.0	26.0	27.0	26.0	26.0	26.0	23.0	23.0
FRFLT	-1.0	5.0	4.0	0.0	2.0	0.0	-8.0	-9.0	-3.0	-3.0	-7.0	-8.0	-8.0	-7.0	-3.0	-1.0	-5.0	-6.0	-4.0	-3.0	-3.0	-2.0	-1.0	-5.0	-4.0	1.0	1.0	3.0	6.0	3.0	-1.0	

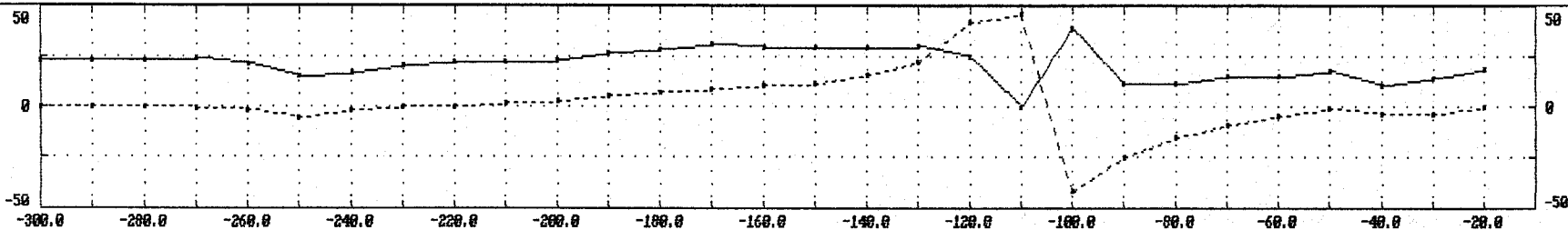


10.0	0.1	-1.0	0.5	2.4	0.1	0.1	0.8	-1.4	-3.5	-2.1	-0.7	-2.5	-2.6	-2.8	-2.6	-2.3	-0.6	-0.9	-2.7	-1.2	-1.8	-0.6	-1.6	-0.3	-0.6	-2.5	0.1	0.6	0.1	1.9	1.7	0.4
20.0	-1.0	0.8	1.0	0.1	1.9	1.0	-1.7	-2.7	-3.1	-4.1	-4.2	-2.6	-4.8	-5.9	-4.9	-3.0	-3.1	-3.3	-2.4	-4.2	-2.6	-2.6	-0.9	-2.3	-2.3	-0.6	-1.8	-0.2	2.4	2.6	1.9	1.1
30.0	0.3	0.7	0.2	0.7	1.2	0.3	-3.0	-3.7	-2.9	-5.2	-6.3	-6.3	-5.4	-6.5	-5.6	-5.6	-6.0	-4.6	-4.5	-3.2	-5.6	-2.3	-3.4	-3.0	-2.2	-1.8	-0.3	0.4	1.7	1.7	0.9	2.5
40.0	0.8	0.2	0.4	0.7	-0.9	-2.3	-1.3	-3.1	-5.3	-5.6	-7.8	-8.9	-8.0	-5.5	-7.0	-7.6	-6.9	-6.7	-4.8	-5.5	-3.2	-5.8	-4.7	-3.1	-2.5	-2.0	-0.6	0.3	-0.7	-0.1	2.5	5.0
50.0	0.0	0.3	1.1	-0.9	-2.6	-2.6	-2.6	-3.2	-5.5	-7.5	-7.8	-9.5	-9.0	-8.7	-7.7	-7.8	-8.2	-6.3	-7.5	-4.7	-5.2	-5.0	-6.1	-4.3	-3.8	-2.1	-2.0	-1.5	-1.2	-0.1	5.0	4.8
60.0	0.6	1.0	-0.7	-2.5	-2.5	-2.9	-4.1	-5.0	-5.6	-7.7	-9.3	-7.6	-9.6	-10.6	-9.6	-8.4	-8.1	-8.7	-6.2	-7.5	-6.6	-5.9	-5.2	-6.9	-3.8	-3.6	-2.6	-2.3	-0.7	4.1	2.5	5.3

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 400N. OCT 88 GRID, NORTH AIR

QZ	0.0	0.0	0.0	-1.0	-2.0	-5.0	-2.0	0.0	0.0	2.0	3.0	5.0	7.0	9.0	11.0	12.0	16.0	22.0	42.0	46.0	-41.0	-25.0	-15.0	-9.0	-4.0	-1.0	-3.0	-3.0	0.0
IX	23.0	23.0	23.0	24.0	21.0	15.0	17.0	20.0	22.0	22.0	23.0	27.0	28.0	31.0	29.0	29.0	29.0	30.0	25.0	0.0	39.0	12.0	12.0	15.0	15.0	18.0	11.0	14.0	19.0
FRFLT	3.0	-1.0	1.0	11.0	13.0	-1.0	-10.0	-7.0	-3.0	-6.0	-10.0	-9.0	-5.0	1.0	2.0	-1.0	3.0	34.0	16.0	-26.0	15.0	24.0	-6.0	-6.0	1.0	8.0	-4.0		

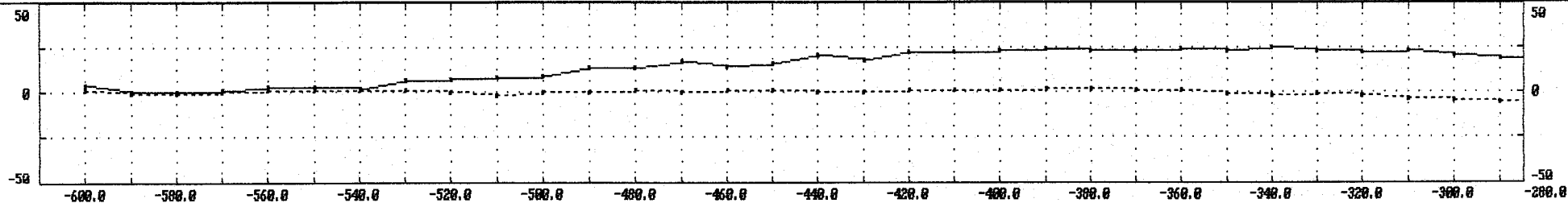


10.0	7	0.4	0.4	1.3	5.0	2.1	-2.5	-2.6	-2.0	-1.3	-3.6	-3.0	-2.6	-1.1	0.9	0.2	2.4	-0.5	19.2	-7.2	-6.0	17.1	-4.9	1.5	-1.9	1.5	1.8	-5.2	-4.2
20.0	9	1.1	1.1	4.5	3.6	2.1	-1.1	-4.6	-3.6	-3.5	-3.5	-6.0	-3.8	1.4	-2.2	0.0	4.0	16.4	-5.3	10.6	8.3	-7.6	13.7	-1.7	-0.5	-1.5	-0.5	-3.1	-8.5
30.0	9	2.5	5.7	2.6	1.0	0.4	1.1	-1.0	-6.8	-6.1	-3.4	-4.7	-2.2	-3.6	-0.7	1.3	16.9	-5.2	9.6	9.2	7.9	5.2	-10.2	15.3	-1.4	-2.8	-4.7	-5.1	-7.3
40.0	5	5.0	4.3	2.8	0.0	0.3	0.0	1.1	-4.8	-7.1	-5.2	-5.3	-2.0	-4.2	-0.2	15.9	-6.4	9.8	8.1	6.5	6.7	5.3	6.5	-0.9	10.2	-6.1	-7.4	-5.7	-9.4
50.0	0	4.8	2.3	2.1	4.7	-1.6	-1.0	-1.4	-3.0	-5.2	-6.1	-5.7	-5.0	-1.5	12.5	-8.9	7.8	8.1	8.1	6.6	4.1	7.9	7.0	1.3	-14.0	6.5	-9.6	-11.0	-10.1
60.0	5	5.3	0.9	3.1	2.8	-0.1	-2.2	-5.7	-1.5	-2.7	-4.9	-8.7	-5.0	10.9	-10.4	4.5	5.3	6.2	6.2	5.9	8.5	6.8	3.5	1.9	-2.2	-17.5	3.3	-13.3	-14.6

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 500N. OCT 88 GRID, NORTHAIR

Q%	1.0	-1.0	-1.0	0.0	1.0	1.0	1.0	1.0	0.0	-2.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	-1.0	-2.0	-1.0	-2.0	-3.0	-4.0	-5.0	-4.0
IX	4.0	0.0	0.0	1.0	3.0	3.0	2.0	6.0	7.0	8.0	9.0	13.0	13.0	17.0	14.0	16.0	20.0	18.0	22.0	22.0	23.0	24.0	23.0	23.0	24.0	23.0	25.0	23.0	22.0	23.0	20.0	19.0	18.0
FRFLT	3.0	-4.0	-5.0	-1.0	-2.0	-8.0	-7.0	-4.0	-7.0	-9.0	-8.0	-5.0	0.0	-5.0	-8.0	-4.0	-6.0	-5.0	-3.0	-2.0	1.0	0.0	-1.0	-1.0	-1.0	3.0	3.0	2.0	6.0	6.0	1.0	-7	

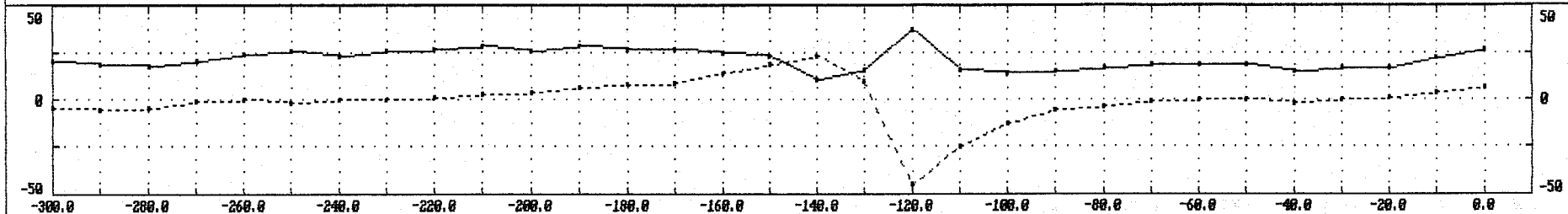


10.0	3.2	2.1	-0.3	-1.3	-1.6	0.1	-2.2	-3.1	-1.7	-1.8	-3.6	-2.4	-2.8	-1.5	0.5	-4.2	-1.2	-1.7	-2.9	-0.5	-1.6	-0.1	0.5	-0.8	0.2	-0.5	-0.1	2.1	0.1	1.6	2.3	0.7
20.0	1.9	2.0	-0.2	-2.3	-1.5	-3.1	-2.6	-3.8	-4.8	-4.6	-4.4	-6.0	-4.1	-2.7	-4.8	-1.7	-5.3	-4.0	-2.3	-3.6	-1.4	-1.0	-0.6	0.1	-1.0	0.2	1.5	0.2	2.3	1.0	2.3	1.6
30.0	-0.7	-0.6	0.1	-0.2	-5.0	-4.9	-4.8	-4.0	-6.0	-7.1	-7.4	-5.4	-5.7	-7.3	-3.9	-6.3	-3.7	-6.3	-5.4	-2.7	-3.2	-1.4	-0.6	-1.2	0.0	0.0	-1.1	1.9	1.9	3.7	1.2	-1.3
40.0	-3.5	-2.7	-0.7	-1.8	-3.7	-6.0	-7.0	-8.5	-7.0	-9.0	-7.4	-6.1	-8.2	-6.7	-8.6	-6.3	-6.5	-5.1	-5.9	-4.7	-2.8	-3.7	-2.9	-1.7	-0.6	-0.2	0.5	1.3	2.8	0.8	0.3	-1.9
50.0	-5.0	-3.5	-4.5	-4.1	-3.7	-5.2	-9.5	-9.4	-10.8	-8.0	-8.7	-11.2	-7.5	-9.0	-8.4	-8.3	-6.8	-6.4	-4.4	-6.9	-5.6	-4.6	-4.6	-1.9	-2.0	0.5	1.5	1.8	1.0	-0.8	-2.2	2.3
60.0	-6.2	-7.1	-6.8	-6.3	-5.4	-6.6	-7.5	-11.8	-10.2	-10.4	-11.4	-10.3	-12.4	-9.7	-9.3	-9.5	-8.8	-6.5	-7.0	-5.3	-8.3	-6.0	-2.6	-4.6	-0.8	0.1	1.7	1.4	-0.4	-1.4	-1.6	-1.3

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 500N. OCT 88 GRID, NORTHAIR

Q% -4.0 -5.0 -4.0 -1.0 0.0 -2.0 0.0 0.0 1.0 3.0 4.0 6.0 8.0 9.0 14.0 19.0 23.0 10.0 -45.0 -25.0 -12.0 -5.0 -3.0 -1.0 0.0 0.0 -2.0 0.0 1.0 4.0 6.0
 I% 20.0 19.0 10.0 20.0 24.0 26.0 23.0 26.0 27.0 20.0 26.0 20.0 27.0 27.0 25.0 23.0 11.0 16.0 37.0 16.0 14.0 15.0 17.0 19.0 19.0 15.0 17.0 17.0 22.0 27.0
 FRFLT 6.0 1.0 -7.0 -12.0 -5.0 1.0 -4.0 -6.0 -1.0 1.0 -1.0 0.0 3.0 6.0 10.0 21.0 -19.0 -26.0 23.0 24.0 -2.0 -7.0 -6.0 -2.0 4.0 6.0 0.0 -7.0 -15.0

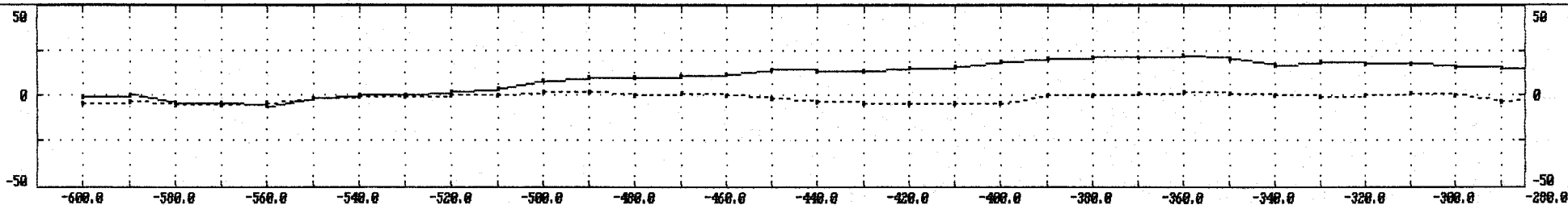


10.0	3	0.7	-0.6	-3.3	-3.0	0.0	-0.6	-2.3	-1.1	0.3	-0.1	-0.4	1.0	2.4	2.5	6.2	5.8	-13.9	1.0	12.2	-0.9	0.3	-2.3	-1.0	-0.3	2.1	0.7	-1.8	-3.3	-6.0	-6.4	10.0
20.0	3	1.6	-2.4	-4.3	-2.8	-3.3	-1.9	-1.5	-2.2	-1.4	1.4	1.4	-1.8	3.1	11.0	6.8	-6.6	4.1	-1.3	1.1	12.7	-0.9	-4.7	-2.8	2.3	0.0	-0.5	-3.5	-8.5	-9.7	-12.0	20.0
30.0	2	-1.3	-2.1	-1.7	-4.1	-4.8	-4.1	0.5	0.0	-3.8	-1.0	0.9	4.1	0.5	6.7	-6.0	6.4	6.9	5.1	-2.9	-1.7	9.7	-1.8	-1.3	-3.4	-2.4	-3.7	-4.6	-9.3	-14.4	-15.7	30.0
40.0	3	-1.9	-0.6	-1.3	-2.6	-4.1	-5.6	-3.8	-1.1	0.1	0.5	1.9	8.5	6.1	-6.2	6.6	7.5	6.6	3.4	1.1	-5.9	-3.2	10.7	-2.1	-2.8	-5.5	-8.8	-9.2	-12.8	-14.9	-17.6	40.0
50.0	2	2.3	-1.2	-4.1	-2.1	-2.4	-5.0	-4.8	-2.6	-0.5	1.7	7.5	6.2	-5.2	6.5	5.6	5.6	3.3	1.9	1.0	0.1	-5.0	-3.1	8.6	-6.0	-10.2	-11.2	-13.0	-15.6	-17.1	-19.7	50.0
60.0	6	-1.3	-1.0	-2.8	-2.6	-3.3	-2.9	-4.6	-3.8	-1.4	7.6	5.5	-8.2	4.8	6.1	5.4	2.4	2.3	1.5	1.0	1.8	-0.5	-6.9	-7.0	1.6	-12.4	-15.8	-17.6	-18.5	-19.9	-23.8	60.0

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 600N. OCT 88 GRID, NORTHAIR

QX	-4.0	-3.0	-5.0	-5.0	-4.0	-2.0	-1.0	-1.0	0.0	0.0	2.0	2.0	0.0	1.0	0.0	-2.0	-3.0	-4.0	-4.0	-4.0	-4.0	0.0	0.0	1.0	2.0	1.0	0.0	-1.0	0.0	1.0	0.0	-3.0	0.0
IX	-1.0	0.0	-4.0	-4.0	-6.0	-2.0	0.0	0.0	2.0	4.0	8.0	10.0	10.0	11.0	12.0	14.0	13.0	13.0	15.0	16.0	17.0	20.0	21.0	21.0	22.0	20.0	17.0	19.0	18.0	18.0	16.0	15.0	16.0
FRFLT	7.0	6.0	0.0	-0.0	-0.0	-4.0	-6.0	-10.0	-12.0	-0.0	-3.0	-3.0	-5.0	-4.0	0.0	-1.0	-5.0	-7.0	-0.0	-6.0	-3.0	-2.0	0.0	6.0	6.0	0.0	0.0	3.0	5.0	3.0	-3.0	-6.0	

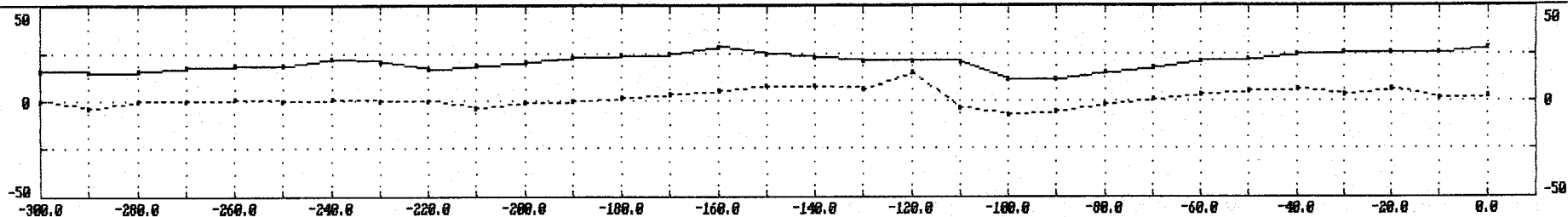


10.0	0.0	2.0	2.1	0.9	-0.9	-3.7	-1.5	-2.2	-3.0	-3.0	-4.0	-1.7	-1.3	-1.4	-1.8	-1.0	0.2	-1.7	-1.9	-2.6	-2.7	-1.5	-0.8	-0.4	0.4	3.0	0.6	-0.1	1.0	1.0	1.7	-0.1	10.0
20.0	1.0	1.8	2.4	0.5	-3.0	-3.0	-4.9	-3.7	-5.2	-6.7	-5.7	-4.6	-3.1	-3.3	-3.0	-2.4	-2.5	-1.7	-4.1	-4.4	-3.3	-2.9	-2.1	-0.3	2.1	1.1	2.3	1.0	0.4	2.3	1.2	0.0	20.0
30.0	0.4	1.6	-0.2	-1.7	-0.9	-4.3	-5.5	-8.6	-7.1	-6.2	-6.7	-7.1	-7.2	-4.6	-3.0	-4.1	-4.1	-4.8	-4.2	-5.0	-5.0	-4.2	-2.4	1.0	0.2	1.0	0.9	2.5	2.3	0.6	0.7	-0.5	30.0
40.0	0.4	-1.4	-1.8	-1.4	-2.9	-3.3	-7.9	-9.0	-10.4	-8.8	-7.9	-8.8	-7.0	-5.8	-4.8	-4.5	-6.3	-6.1	-6.2	-4.9	-6.0	-4.9	-2.0	-2.5	-0.5	0.5	2.5	3.0	2.8	0.1	-2.3	-1.0	40.0
50.0	-2.6	-3.0	-2.4	-3.2	-3.9	-6.7	-7.4	-9.7	-10.1	-11.8	-10.2	-8.1	-7.9	-7.8	-6.9	-6.6	-6.1	-7.1	-6.9	-7.3	-5.0	-4.2	-5.1	-2.8	-2.2	0.8	2.0	1.8	0.4	0.2	-0.5	-3.6	50.0
60.0	-4.3	-3.8	-4.7	-5.3	-7.2	-7.8	-8.2	-7.9	-10.2	-11.4	-11.8	-9.5	-9.1	-9.7	-10.2	-9.6	-7.9	-6.9	-8.1	-6.2	-4.1	-4.3	-4.8	-4.8	-2.3	-1.5	-0.7	-0.7	0.0	0.6	-0.6	-0.4	60.0

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 600N, OCT 88 GRID, NORTHAIR

QZ	0.0	-3.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	-3.0	-1.0	0.0	2.0	4.0	5.0	8.0	8.0	6.0	15.0	-3.0	-7.0	-5.0	-2.0	1.0	4.0	5.0	6.0	4.0	6.0	2.0	3.0
IX	16.0	15.0	16.0	18.0	19.0	19.0	22.0	20.0	17.0	19.0	20.0	23.0	24.0	25.0	20.0	25.0	23.0	21.0	21.0	20.0	12.0	12.0	15.0	18.0	21.0	22.0	25.0	26.0	26.0	26.0	20.0
FRFLY	3.0	-3.0	-6.0	-4.0	-4.0	-4.0	4.0	6.0	-2.0	-7.0	-8.0	-6.0	-6.0	-4.0	5.0	9.0	6.0	3.0	10.0	17.0	5.0	-9.0	-12.0	-10.0	-8.0	-8.0	-5.0	-1.0	-2.0		

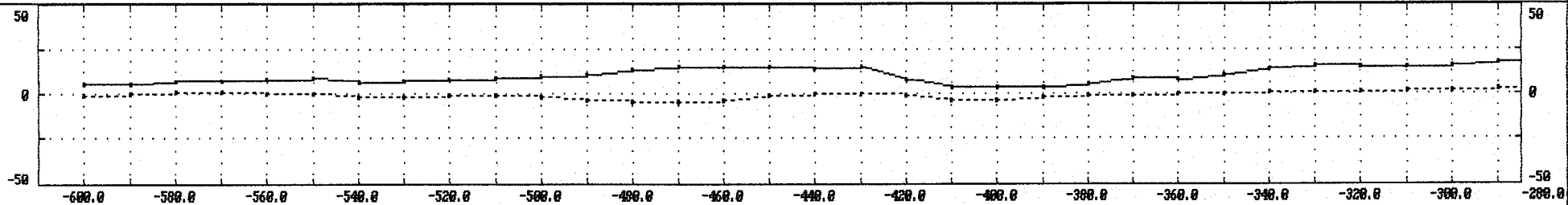


10.0	17	-0.1	-1.6	-2.1	-0.7	-1.7	-0.8	2.7	0.0	-1.7	-2.3	-3.0	-1.3	-2.4	0.1	2.9	2.3	2.5	1.2	5.3	4.4	-1.8	-3.0	-4.1	-3.1	-2.9	-2.8	-1.0	-0.5	-1.5	-2.0
20.0	2	0.0	-1.4	-2.1	-3.5	-1.4	0.5	-0.7	0.2	-2.0	-4.0	-3.3	-4.0	-1.0	1.1	2.8	3.7	2.5	5.7	4.9	3.6	1.1	-5.1	-5.8	-5.5	-4.6	-3.9	-3.5	-2.9	-2.7	-3.2
30.0	7	-0.5	-0.8	-3.6	-3.2	-1.4	-0.7	-0.5	-1.8	-1.2	-3.1	-5.6	-2.8	-1.3	0.9	1.4	2.3	7.9	6.4	3.7	1.2	-0.3	-1.4	-7.2	-8.1	-6.6	-4.6	-4.1	-4.5	-4.4	-4.6
40.0	13	-1.0	-3.3	-1.5	-0.4	-1.9	-1.6	-2.4	-1.9	-2.3	-2.8	-2.7	-4.3	-2.2	-1.9	0.7	6.3	6.8	7.0	3.2	-0.1	-1.7	-3.5	-4.1	-8.5	-8.3	-7.5	-6.6	-5.3	-5.5	-4.6
50.0	15	-3.6	-1.2	0.2	-0.6	-1.2	-3.3	-3.8	-3.4	-4.8	-3.8	-1.6	-1.3	-3.1	-1.3	3.4	4.9	4.0	3.1	3.0	0.7	-2.0	-4.0	-4.4	-5.0	-10.3	-10.5	-9.2	-8.0	-6.6	-6.5
60.0	16	-0.4	0.5	0.5	-1.2	-3.3	-5.2	-6.2	-7.6	-5.0	-2.9	-1.6	0.2	-0.5	2.0	3.2	1.8	1.7	0.2	0.2	0.4	-1.8	-2.9	-4.3	-5.2	-6.6	-12.2	-12.4	-11.1	-9.6	-8.4

FALCONBRIDGE, VLF DATA, 24.8 khz

LINE 700N, OCT 88 GRID, NORTHAIR

Q%	-1.0	0.0	1.0	1.0	0.0	0.0	-2.0	-2.0	-1.0	-1.0	-2.0	-3.0	-4.0	-4.0	-3.0	-1.0	0.0	0.0	-1.0	-3.0	-3.0	-2.0	-1.0	-1.0	0.0	0.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0
IX	5.0	5.0	7.0	7.0	8.0	9.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0	15.0	15.0	15.0	14.0	15.0	8.0	4.0	4.0	4.0	5.0	9.0	8.0	11.0	14.0	16.0	15.0	15.0	16.0	18.0	18.0
FRFLT	-4.0	-3.0	-3.0	0.0	4.0	0.0	-4.0	-4.0	-4.0	-4.0	-5.0	-7.0	-6.0	-2.0	1.0	1.0	6.0	17.0	15.0	4.0	-1.0	-6.0	-8.0	-5.0	-8.0	-11.0	-6.0	0.0	0.0	-4.0	-5.0	-1.0	3

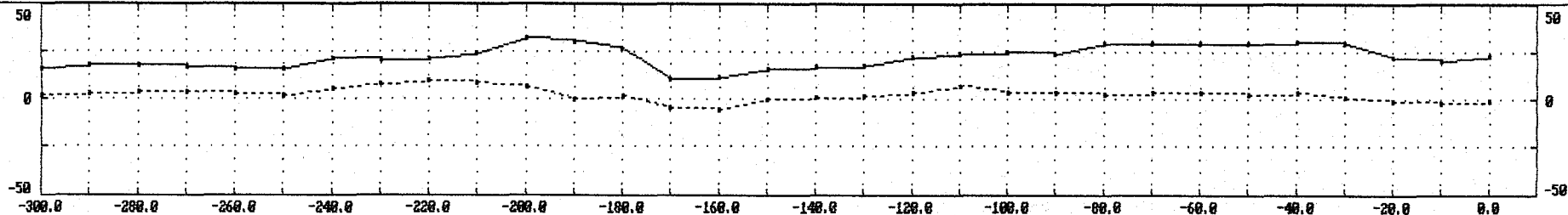


10.0	-0.4	-1.3	-1.4	-0.4	-1.4	1.0	0.9	-1.3	-1.1	-1.6	-1.6	-2.0	-2.6	-1.3	-0.3	1.1	0.7	3.8	6.7	2.5	0.4	-0.3	-3.3	-2.3	-1.8	-4.0	-3.0	-1.1	0.0	-0.9	-1.6	-1.1	10.0
20.0	-0.9	-1.3	-1.8	-2.4	0.2	-0.4	-0.6	-0.8	-2.8	-2.7	-2.9	-3.5	-2.7	-1.6	-0.3	0.1	3.9	5.7	5.5	6.2	1.4	-3.1	-2.0	-3.2	-5.2	-4.7	-4.7	-3.0	-1.7	-1.5	-2.9	-2.0	20.0
30.0	-0.8	-1.8	-2.8	-0.9	-1.6	-1.1	-1.6	-1.4	-1.7	-3.8	-4.0	-3.3	-2.9	-2.1	-2.5	2.3	5.5	5.4	5.2	4.3	2.9	-0.2	-4.2	-5.9	-6.5	-5.0	-2.6	-5.0	-4.9	-3.6	-1.8	-2.8	30.0
40.0	-1.1	-2.2	-0.9	-1.8	-1.8	-2.4	-1.1	-1.3	-2.0	-2.6	-5.0	-5.1	-3.9	-4.3	0.3	3.1	4.3	5.7	4.8	2.5	2.5	1.4	-3.9	-7.1	-6.8	-6.6	-6.3	-5.3	-6.4	-4.0	-2.1	0.2	40.0
50.0	-1.3	0.2	-0.8	-0.9	-1.5	-1.7	-2.3	-2.4	-4.4	-4.0	-3.8	-5.3	-5.7	-0.9	1.7	2.4	3.1	3.9	2.8	3.5	1.9	-1.1	-1.6	-5.1	-7.6	-8.9	-9.4	-8.4	-3.3	-3.0	-1.3	-2.7	50.0
60.0	1.8	1.4	0.4	-0.6	-1.7	-3.0	-4.1	-5.8	-5.0	-5.2	-4.0	-3.8	-1.8	0.9	1.5	2.2	2.1	0.3	1.8	1.4	-0.3	-1.8	-2.7	-1.8	-6.2	-8.0	-7.9	-7.5	-5.8	-3.8	-7.1	-5.6	60.0

FALCONBRIDGE, VLF DATA, 24.8 khz

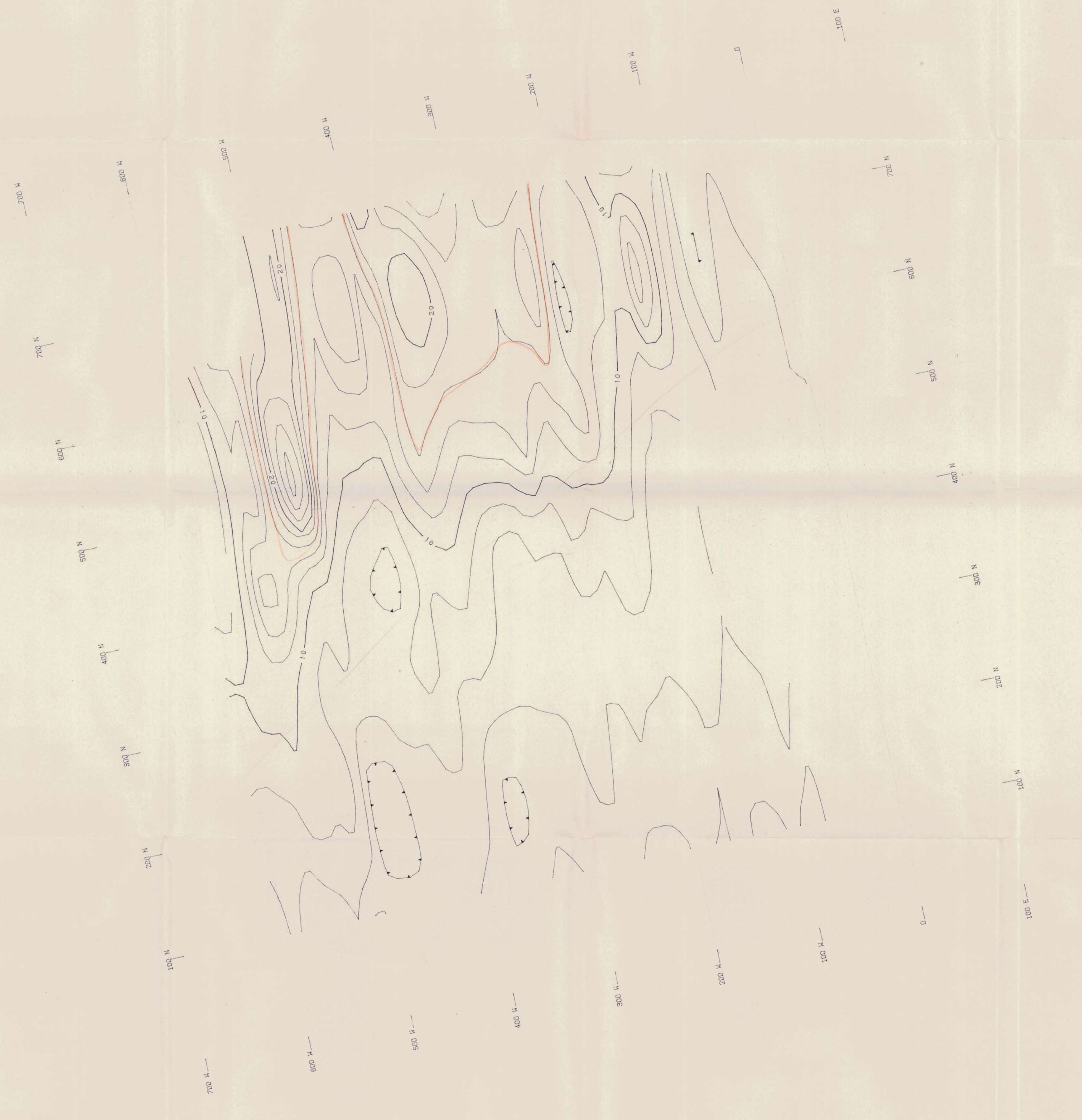
LINE 700N, OCT 88 GRID, NORTHAIR

Q% 2.0 3.0 4.0 4.0 3.0 2.0 5.0 8.0 10.0 9.0 6.0 0.0 2.0 -4.0 -5.0 0.0 1.0 2.0 4.0 7.0 4.0 4.0 3.0 4.0 4.0 3.0 4.0 1.0 -1.0 -2.0 -1.0
 I% 16.0 10.0 10.0 17.0 16.0 16.0 21.0 20.0 21.0 24.0 32.0 30.0 27.0 11.0 12.0 16.0 17.0 10.0 22.0 24.0 25.0 24.0 29.0 29.0 29.0 29.0 30.0 29.0 22.0 20.0 23.0
 FRFLT -5.0 -1.0 3.0 3.0 -4.0 -9.0 -4.0 -4.0 -15.0 -17.0 -1.0 24.0 34.0 10.0 -10.0 -7.0 -7.0 -11.0 -9.0 -3.0 -4.0 -9.0 -5.0 0.0 -1.0 -1.0 0.0 17.0 0.0



10.0	6	-1.1	0.5	0.5	0.5	-2.9	-2.7	-1.2	-3.0	-6.2	-2.1	3.0	10.3	9.1	-2.2	-1.9	-1.9	-3.7	-3.7	-2.6	-0.7	-2.7	-3.1	-0.2	-0.5	0.2	0.5	4.6	5.3	-0.2	-0.8	10.0
20.0	9	-2.0	-0.4	0.6	-3.1	-2.9	-3.1	-3.0	-4.9	-5.8	-4.0	6.9	10.9	7.1	4.6	-4.3	-5.4	-3.6	-3.7	-4.4	-5.1	-3.5	-2.3	-2.7	-0.8	-0.1	3.0	4.9	4.3	3.9	0.1	20.0
30.0	8	-2.8	-2.3	-4.3	-0.1	-0.6	-3.3	-9.6	-8.5	-4.0	4.5	4.5	3.0	7.3	5.6	2.0	-8.4	-8.3	-4.9	-4.7	-4.1	-2.8	-3.7	-3.7	-3.4	3.4	4.6	3.4	3.5	4.3	3.9	30.0
40.0	1	0.2	-2.8	-2.9	-3.3	-4.6	-9.5	-8.6	-7.2	2.0	3.9	1.2	1.4	2.7	4.9	2.7	1.0	-7.4	-9.9	-7.6	-7.2	-5.4	-2.0	-1.5	2.6	1.5	2.5	3.0	3.2	3.6	4.5	40.0
50.0	3	-2.7	-1.3	-4.7	-6.9	-10.8	-8.6	-7.4	1.7	0.6	-1.3	1.0	0.4	-0.6	0.3	4.0	3.4	-1.0	-10.5	-10.4	-8.4	-7.7	-6.5	0.7	3.2	2.7	2.1	4.7	3.0	3.2	3.8	50.0
60.0	1	-5.6	-4.5	-4.7	-10.4	-9.3	-7.5	2.1	1.4	-1.5	-1.5	-1.4	-1.3	-2.8	-2.4	0.1	1.4	0.2	-1.5	-10.2	-10.3	-7.7	-3.8	-2.0	-0.7	1.5	2.3	2.0	5.7	5.7	5.3	60.0

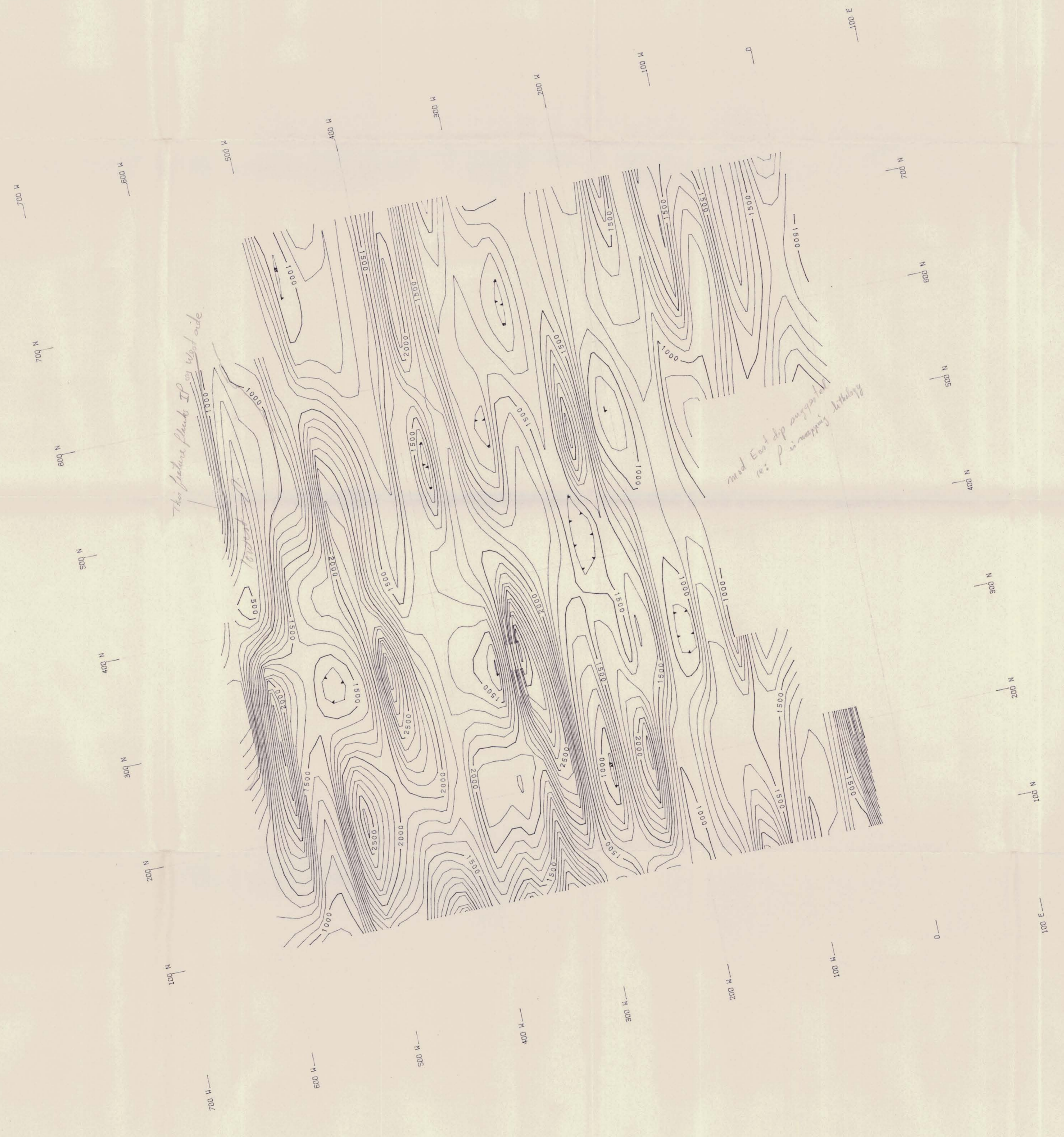
Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID CHARGEABILITY PLAN Schlumberger array, AB=220m, MN=20m
contour interval 2 ms
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG 3A

Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID RESISTIVITY PLAN Schlumberger array, AB=220m, MN=20m contour interval 100 ohm-m SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG. 3B

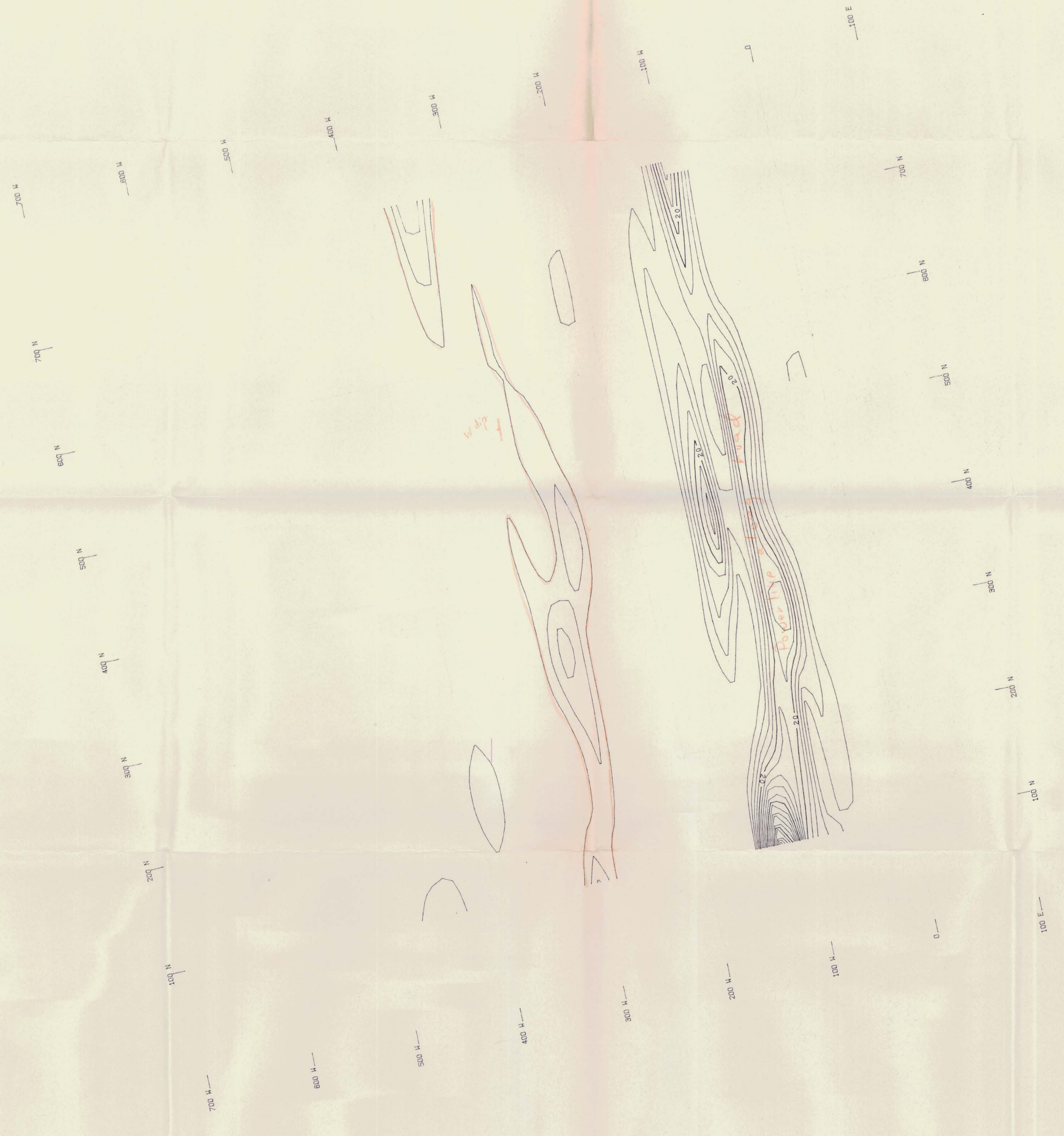
Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID TOTAL FIELD MAGNETIC PLAN
contour interval 40 nt
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG 3C.

Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID FILTERED VLF PLAN, (Fraser) 24.8 khz
contour interval 4 %
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG 3D

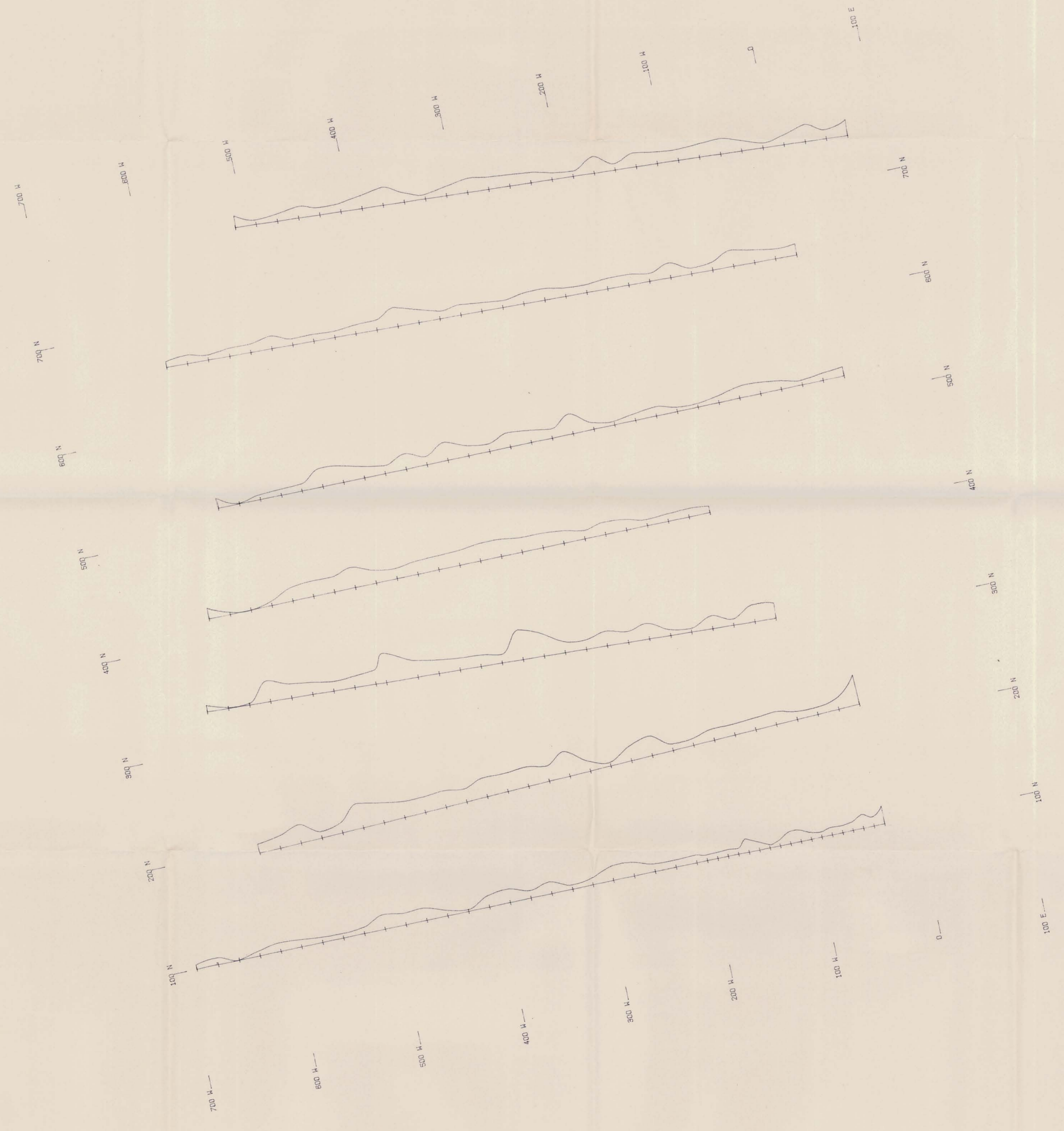
Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID CHARGEABILITY PROFILES, SCHLUMBERGER ARRAY AB=220m, MN=20m
1 cm = 10 ms, base 10 ms
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG. 3E

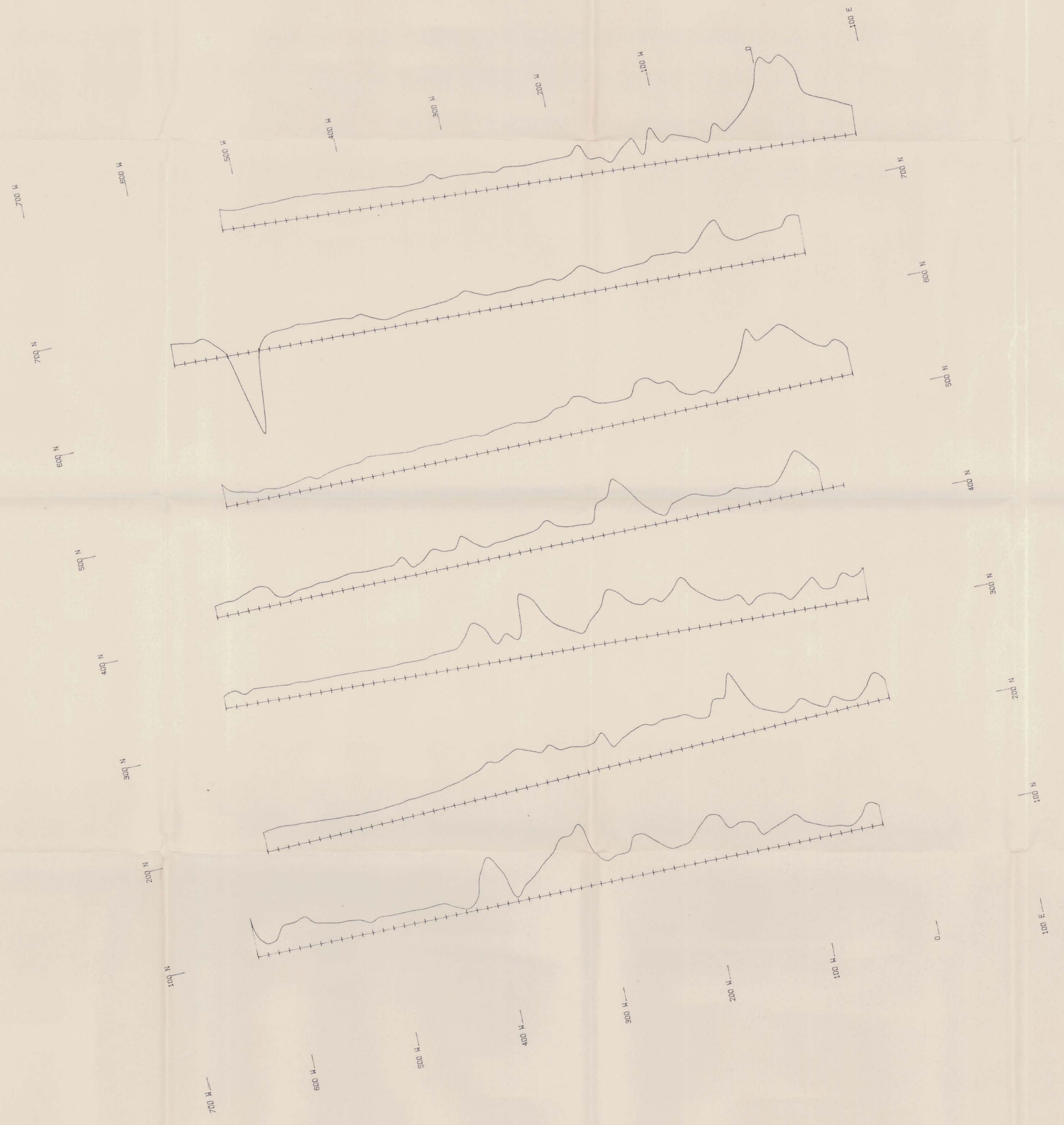
Inclination 72 Deg
Declination 23 Deg E



FALCONBRIDGE LTD
NORThAIR PROJECT OCT 88 GRID RESISTIVITY PROFILES, SCHLUMBERGER ARRAY AB=220m, MN=20m
1 cm = 2000 ohm-m, base 400 ohm-m
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG 3F.

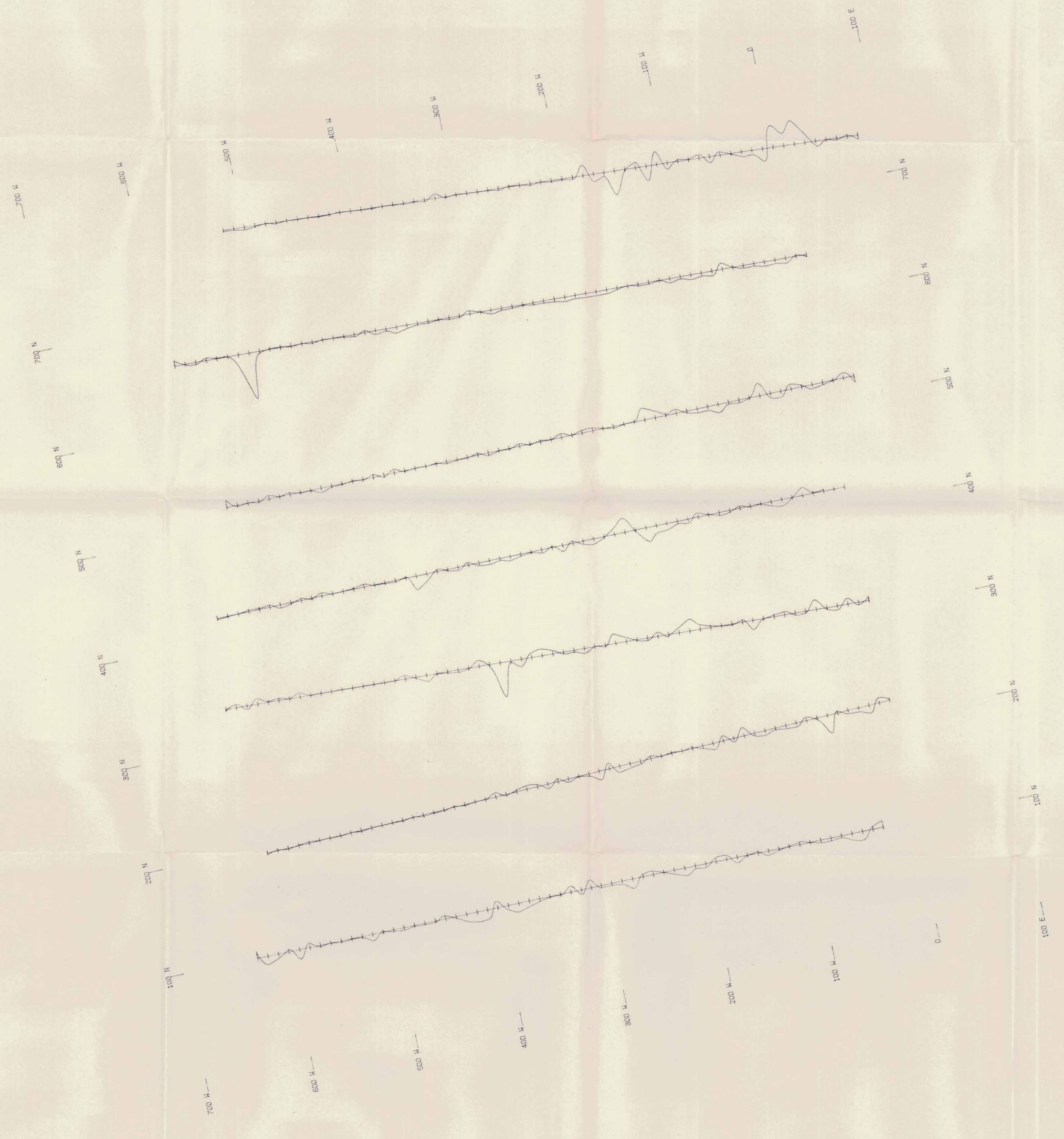
Inclination: 22 Deg
Declination: 23 Deg



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID TOTAL FIELD MAGNETIC PROFILES
1 cm = 400 nt, base 56000 nt
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG. 36

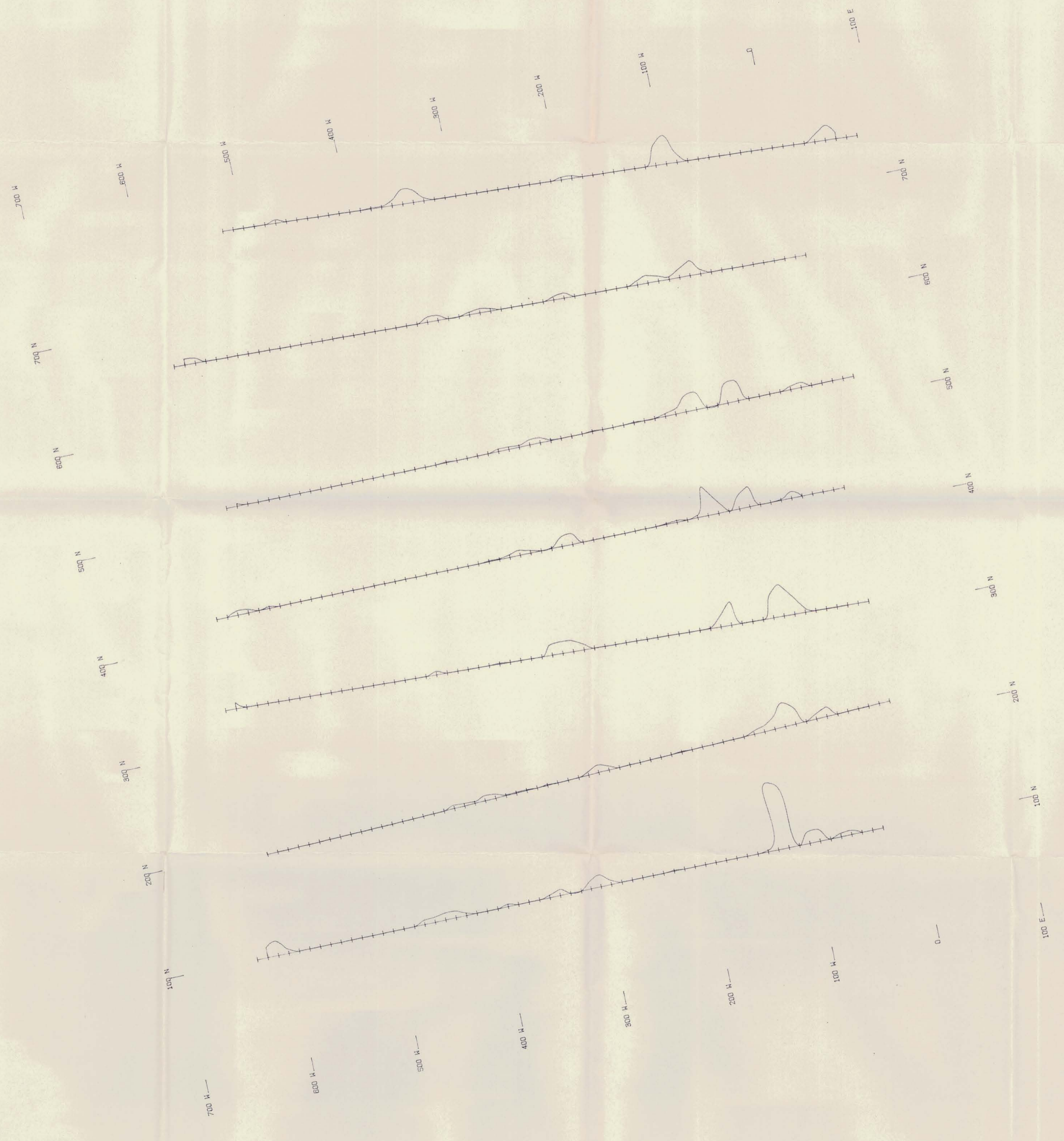
Inclination: 72 Deg
Declination: 23 Deg E



FALCONBRIDGE LTD
NORHAIR PROJECT OCT 88 GRID MAGNETIC GRADIOMETER PROFILES vertical gradient
1 cm = 100 nt/m, base 0
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG. 3H

Inclination: 72 Deg
Declination: 28 Deg E



FALCONBRIDGE LTD
NORTHAIR PROJECT OCT 88 GRID FILTERED VLF PROFILES, (Fraser) 24.8 khz
1 cm = 25 %, base 0
SCALE 1:2000
DELTA GEOSCIENCE LTD

FIG. 31