

003001

Aberfoyle Resources Limited
EXPLORATION DIVISION

MINES		
FILE REF.		
- 0 111 1993		
POS. INFO.		
ORIGIN	DATE	REF. INFO.
See folio 81 for covering letter.		
REVISION TO		DATE

EXPLORATION LICENCE 11/88

GOWRIE PARK
MICROFILMED
 FICHE No. 012809-10
 FINAL REPORT

Volume 1 of 1

Compiled By:



R Sharpe
Geologist

Issued by:



D B Wallace
Regional Exploration
Manager
July, 1993

Burnie	(1/3)
Hawthorn	(2/3)
sources Tasmania	(3/3)

Internal Report No: Gowrie Park 7

93-3450.

CONTENTS

	<u>Page No:</u>
1.0 SUMMARY	1
2.0 INTRODUCTION	2
3.0 PREVIOUS EXPLORATION	3
3.1 Year Ended July 1989	4
3.2 Year Ended July 1990	4
3.2.1 Mount Roland	4
3.2.2 Gowrie Park-Cethana	5
3.3 Year Ended July 1991	5
3.3.1 Mount Roland	5
3.3.2 Gowrie Park-Cethana	6
3.4 Year Ended July 1992	6
4.0 WORK COMPLETED 1991/93	7
4.1 North-east Mount Roland	7
4.1.1 Geology and Geochemistry	7
4.1.2 Geophysics	8
4.2 Gowrie Park-Cethana	8
4.2.1 Geophysics	9
5.0 REFERENCES	10

APPENDICES

- I Base Metal Geochemistry - Mount Roland area.
- II Zonge EM Profiles - Mount Roland area.
- III Lamontagne UTEM Profiles - Gowrie Park-Cethana Area.

LIST OF PLATES

- Plate GP43 Gowrie Park EL 11/88 Interpretive Geology.
- Plate GP44 Gowrie Park EL 11/88 Locality Map. (In Text)
- Plate GP51 Gowrie Park EL 11/88 UTEM Grids.
- Plate GP52 Gowrie Park EL 11/88 Summary of Exploration. (In Text)

1.0 SUMMARY

EL 11/88 is dominated by lavas and intercalated volcanic sediments of Cambrian age. Localised hydrothermal alteration of these volcanics has been identified at the Mount Roland and Gowrie Park-Cethana areas.

The recommendations of Hicks and Richardson (1991); to test the Mount Roland and Gowrie Park-Cethana areas with EM have been completed. No significant conductors were identified during the exploration programme. Consequently, EL 11/88 Gowrie Park has been recommended for relinquishment.

2.0 INTRODUCTION

Exploration Licence 11/88, Gowrie Park was granted to Aberfoyle Resources Ltd. on 1st August, 1988 for a period of ten years. Prior to 1988 the ground was held by CRA Exploration Pty. Ltd. as part of EL 7/73. EL 11/88 is located approximately 10 km south of Sheffield (Plate GP44).

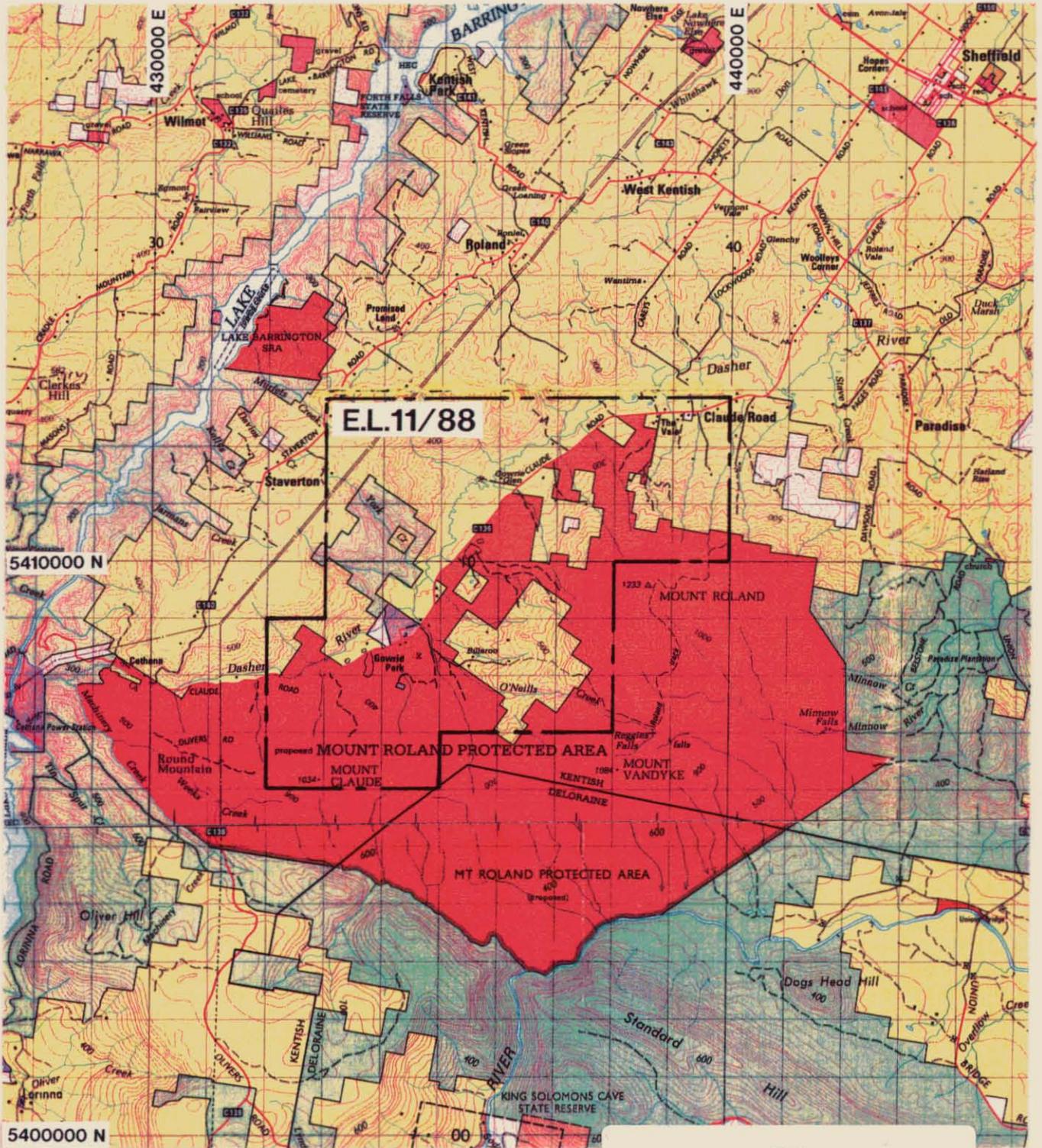
The first non-statutory reduction of the licence area was completed in May 1992. The licence area was reduced from approximately 79 square kilometres to approximately 40 square kilometres.

Land tenure in the area comprises predominantly pastoral freehold, Crown Land and State Forest as well as land vested in the HEC. EL 11/88 extends from the northern slopes of Mount Claude and Mount Roland to the Dasher River in the north, showing marked topographic variation.

This report details exploration activities undertaken on EL 11/88 for the period ending 1st July 1993 continuing exploration previously documented in Rand and Noonan (1989), Rand (1990) and Hicks and Richardson (1991).

Work undertaken on EL 11/88 during the reporting period is summarised on Plate GP52. Work involved ;

1. Reconnaissance mapping at north-east Mount Roland.
2. 4.3 line km Zonge EM survey at north-east Mount Roland.
3. 11.4 line km UTEM survey at the Gowrie Park-Cethana alteration zone.



E.L.11/88

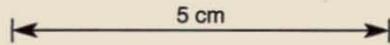
proposed MOUNT ROLAND PROTECTED AREA

MOUNT CLAUDE

MOUNT VANDYKE

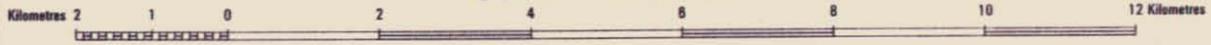
MT ROLAND PROTECTED AREA

KING SOLOMONS CAVE STATE RESERVE



IG N

SCALE 1: 100 000



Aberfoyle Resources Limited
EXPLORATION DIVISION

NORTH WEST TASMANIA
GOWRIE PARK E.L.11/88
LOCALITY MAP

Compiled : RdeB
Drawn :
Traced :
Checked : RAS
Plate No. : GP44

REVISIONS			
Init.	Date	Init.	Date

Location Code :

Scale : 1:100000

Date : JUNE 1993

3.0 PREVIOUS EXPLORATION

Exploration activities to November 1991 are summarised on Plate GP52. Earliest recorded exploration at Gowrie Park was conducted by prospectors late last century (Jennings 1979). These include lead-silver prospects at Mount Roland and Mount Claude.

A regional stream sediment sampling programme was undertaken by Asarco between 1973 and 1976. Lack of encouragement in follow-up work led to licence relinquishment.

Exploration of the licence was carried out by CRA Exploration up until 1987, aimed at locating VHMS-style mineralisation in Cambrian volcanics proximal to Mount Roland and Mount Claude. CRA Exploration established a number of prospects based upon Asarcos stream sediment geochemical data (Funnell, 1987).

On the northern slopes of Mount Claude, CRA undertook a gridding, soil sampling and geophysical programme. Work on the Gowrie Park grid focussed on an alteration trend that extends from Cethana, on CRAs' adjacent licence (EL 10/76), towards Gowrie Park on licence EL 7/73. The programme produced a number of anomalies within the current licence boundary of EL 11/88. Drill testing on the Gowrie Park grid, to 1987, totalled five drill holes (77GPC1, [107.1m], 77GPC2 [112.75m], 78GPC3 [94.1m], RD84 GP4 [84.0m] and DD85 GP5 [96.5m] totalling 494.45m. Summaries of the results of the drilling can be found in Purvis (1978), Temby (1985) and von Strokirch (1986).

Exploration in the Mount Roland area involved work on two grids (Mount Roland and West Mount Roland) (refer to Plate GP 52). Work included mapping, geochemistry and airborne and surface geophysics. The programme resulted in two drill holes DD80 MR1 and RD84 MR2 which failed to intersect massive sulphides. More detailed summaries of the work on these grids can be found in Weber (1983) and Temby (1985).

A summary of exploration activities completed by Aberfoyle Resources during the life of EL 11/88 tenure follows.

3.1 Year Ended July 1989 (Rand & Noonan, 1989)

A total of 6 samples were collected for petrological and/or geochemical analysis from the Mount Roland and Mount Claude areas, with mapping undertaken on a regional scale.

3.2 Year Ended July 1990 (Rand, 1990)

3.2.1 Mount Roland

- A 7 line km. grid at 200m spacings was established over the Mount Roland Adit.
- Strongly hydrothermally altered andesites mapped on the grid.
- 23 rock chip samples collected and analysed for metal, lithophile and major elements and 21 samples described petrographically.

Location Code :			
REVISIONS			
Init.	Date	Init.	Date
SWR	18.7.90		
DMJ	28.7.91		
DMJ	18.3.92		
RAS	1.7.93		

Scale : AS shown

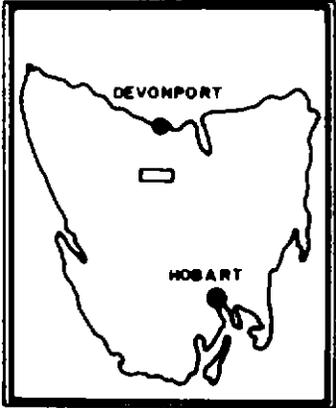
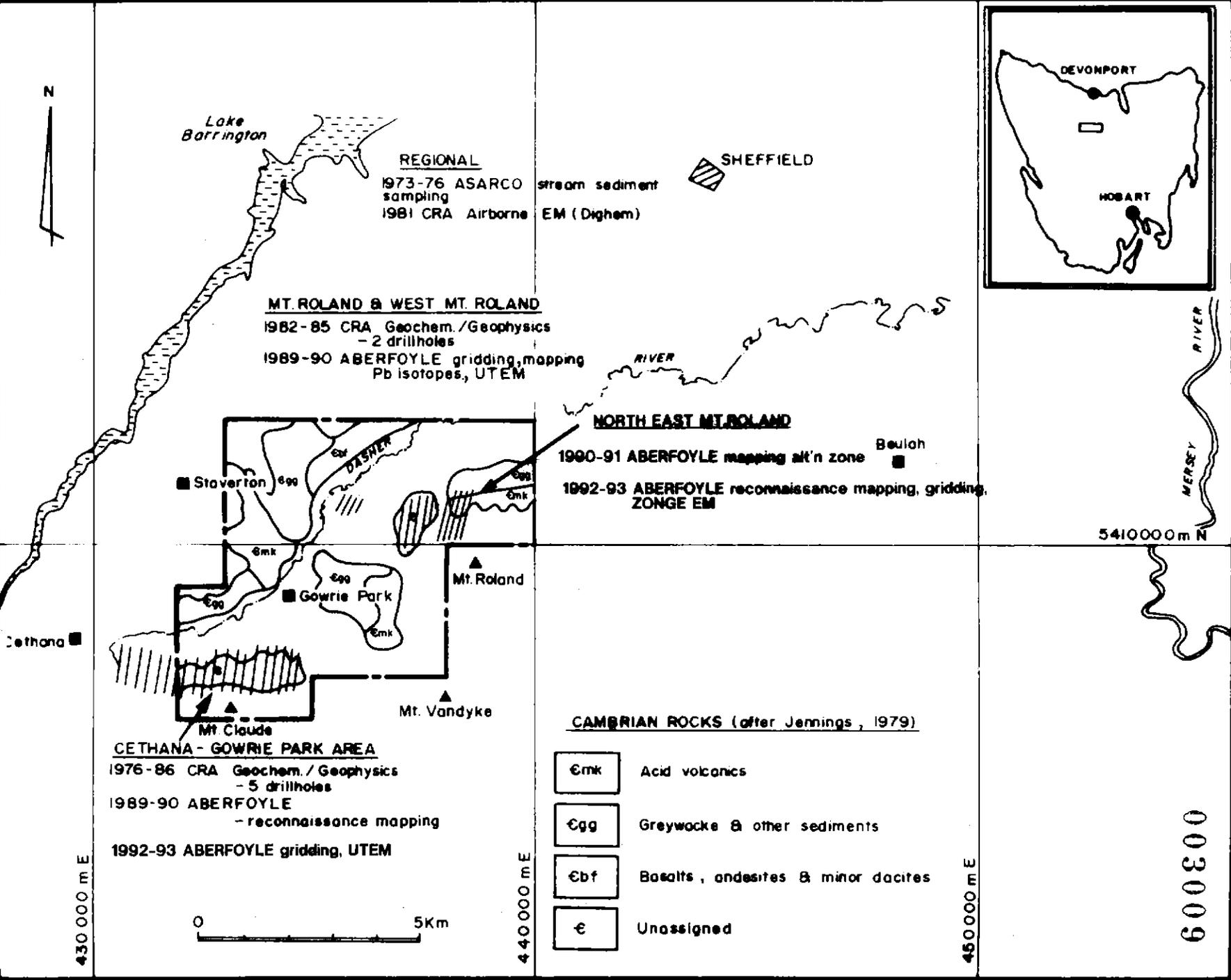
Date : JULY 1993

SUMMARY OF EXPLORATION

Compiled :	SWR/RAS
Drawn :	
Traced :	RdeB
Checked :	RAS
Plate No. :	GP 52

Aberfoyle Resources Ltd
EXPLORATION DIVISION

NORTHERN TASMANIA



003009

- CRA drill hole MR1 sampled for geochemistry (9 samples) and petrology (9 samples).
- Two samples submitted for Pb isotope characterisation gave Cambrian VMS style ratios.
- A 6.5 line km. UTEM survey did not detect any significant conductors.

3.2.2 Gowrie Park-Cethana

- Reconnaissance mapping undertaken in the Cethana-Gowrie Park area. 71 samples collected for petrographic description and 84 samples analysed for metal and lithophile elements.
- 5 high Pb samples from CRA drill core were submitted for Pb isotope characterisation. Isotopic signatures were similar to those for the Rosebery deposit.

3.3 Year Ended July 1991 (Hicks & Richardson, 1991)

3.3.1 Mount Roland

- Reconnaissance mapping to the north east of the Mount Roland grid located strongly silica-sericite-pyrite altered andesitic volcanics.
- Five samples collected for metal and lithophile element analysis in addition to 6 stream sediment samples and 1 petrology sample.

3.3.2 Gowrie Park-Cethana

- Reconnaissance mapping in the western half of the licence completed.

3.4 Year Ended July 1992.

No field work was undertaken to licence renewal in August, 1992.

4.0 WORK COMPLETED

The following documents exploration completed during the period August 1992-July 1993.

4.1 North-east Mount Roland

Previous exploration by Aberfoyle Resources at Mount Roland identified hydrothermally altered Cambrian andesitic volcanics proximal to the Mount Roland adit. A UTEM survey in 1989 indicated no further exploration of this site was warranted (Rand, 1990), however strong silica-sericite-pyrite alteration was identified north-east of the Mount Roland adit. (Hicks and Richardson, 1991). An opportunity existed to apply TDEM techniques to an area previously untested for bedrock conductors.

Exploration activity undertaken at north-east Mount Roland during the reporting period includes reconnaissance **mapping**, base metal **geochemistry** and a **single loop EM Zonge survey**.

4.1.1 Geology and Geochemistry

Reconnaissance mapping over the north-east Mount Roland prospect area is shown on Plate GP43. Mapping further delineated an area of silica-sericite-pyrite alteration in Cambrian andesitic volcanics. Geochemical analyses of two rock chip samples (623906 & 623908) returned low base metal values. Five sites of ferrous precipitates in creeks were sampled and similarly returned low base metal values. Ferrous precipitates do however show elevated levels of barium (maximum of 0.84% in sample 623907). Results from the investigation are included as Appendix 1 and sample localities shown on Plate GP43.

4.1.2 Geophysics

In preparation for a single loop TDEM zonge survey, a grid was established at north-east Mount Roland, comprising five lines (1200E to 2000E) at a 200 metre separation. A total of 7.8 line kilometres of gridding was established with loop dimensions 800 x 500 metres and reading lines up to 1 kilometre in length. Complete grid specifications are shown on Plate GP51.

The north-east Mount Roland EM survey was undertaken in November, 1992, with a total of 4.3 line kilometres of EM read. Vertical and horizontal data profiles from the Zonge survey are included as Appendix 2. A short time anomaly feature on lines 1200E, 1400E, 1600E at approximately 1400N is the result of a surficial source. No bedrock conductors were identified and consequently no further work recommended.

4.2 Gowrie Park-Cethana

Mapping of the Gowrie Park-Cethana area was completed in 1991 and reported previously in Rand (1990) and Hicks & Richardson (1991). Mapping defined a bimodality in the volcanic pile, with andesites immediately north of altered volcanics of the Cethana Alteration Zone. Andesites are interpreted to lie stratigraphically above the Cethana Alteration zone and are suggestive of a Cambrian VMS hangingwall/footwall sequence respectively.

Work completed during the reporting period includes a three loop UTEM survey over the Cethana Alteration Zone.

4.2.1 Geophysics

16 line km. of gridding was completed in preparation for EM testing. In total 3 loops and associated reading lines were established over the Cethana Alteration Zone, as shown on Plate GP51.

A UTEM survey over the Cethana Alteration Zone grid at Gowrie Park was completed by Lamontagne in June 1993 with a total of 11.4 line km. of data collected. Continuous normalised and point normalised data profiles for loops 1, 2 and 3 are shown Appendix 3. Profiles indicate the presence of cultural effects that include nearby powerlines and infrastructure as well as early time surficial features. No significant conductors were identified and consequently no further work recommended.

6.0 REFERENCES

Funnell, F.R., 1987. EL 7/73 Sheffield Area, Northern Tasmania. Relinquishment Report incorporating Exploration for the Period February 1987 to July 1987.

Hicks, D.J., and Richardson, S.M., 1991. Exploration Licence 11/88, Gowrie Park, Tasmania. Progress report for the year ended 1 July, 1991.

Jennings, I.B., 1979. Sheffield Sheet 37. Geological Survey of Tasmania Explanatory Report.

Purvis, J.G., 1978. EL 7/73 Sheffield Area, Northern Tasmania. Exploration on the Gowrie Park grid, June 1977 to February 1978.

Rand, S.W. and Noonan, D.J., 1989. Exploration Licence 11/88 Gowrie Park, Tasmania. Progress report for the year ended 1 July, 1989.

Rand, S.W., 1990. Exploration Licence 11/88, Gowrie Park, Tasmania. Progress report for the year ended 1 July, 1990.

Temby, P.A., 1985. EL 7/73 Sheffield Area, Northern Tasmania. Report on Exploration for 12 months to 15 February, 1985.

von Storkirch, T., 1986. EL 7/73 Sheffield Area, Northern Tasmania. Report on Exploration for 12 months to February, 1986.

Weber, G.B., 1983. EL 7/73 Sheffield Area, Northern Tasmania. Exploration in the vicinity of Mount Roland.

APPENDIX I



ANALABS

A Division of Incheape Inspection and
Testing Services Australia Pty. Ltd.

003018

Phone (004) 316837

14 Thirkell St. COOEE TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No.

100560.60.08899

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

INVOICE TO:

Aberfoyle Resources Limited
Exploration Division
P.O. Box 952
BURNIE TAS 7320

ORDER No.

PROJECT

0614

DATE RECEIVED

RESULTS REQUIRED

28/07/92

ASAP

No. OF PAGES
OF RESULTS

DATE
REPORTED

No.
OF COPIES

TOTAL No.
OF SAMPLES

1

13/08/92

1

7

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

623901/04,623906/08

RC Prep : 6P033;A,6P031;A

Cu,Pb,Zn,Ag/6A101

Ba,As/6X401,Ba/6X403

REMARKS

RESULTS

TO

Mr R de Bomford
Aberfoyle Resources Limited
P.O. Box 952
BURNIE TAS 7320

*GROUP AAX
MT. ROLAND PROJECT*

RESULTS

TO

RESULTS

TO


AUTHORISED OFFICER

ANALABS

A Division of Incoape Inspection and Testing Services Australia Pty. Ltd.
A.C.N. 004 581 664

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		100560.60.08899				13/08/92		0614		1 OF 1	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ba	Ba	As			
1	623901	13	23	41	<2	4900	-	7			
2	623902	18	<5	23	<2	3300	-	20			
3	623903	21	16	34	<2	2600	-	14			
4	623904	25	35	35	<2	2850	-	25			
5	623906	26	110	80	<2	500	-	14			
6	623907	17	17	590	<2	>5000	0.84	50			
7	623908	30	22	210	<2	710	-	<2			
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	4	5	4	2	10	0.01	2			
24	UNITS	ppm	ppm	ppm	ppm	ppm	%	ppm			
25	METHOD	GA101	GA101	GA101	GA101	GX401	GX403	GX401			

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER



003020

APPENDIX II

FILE NOTE:

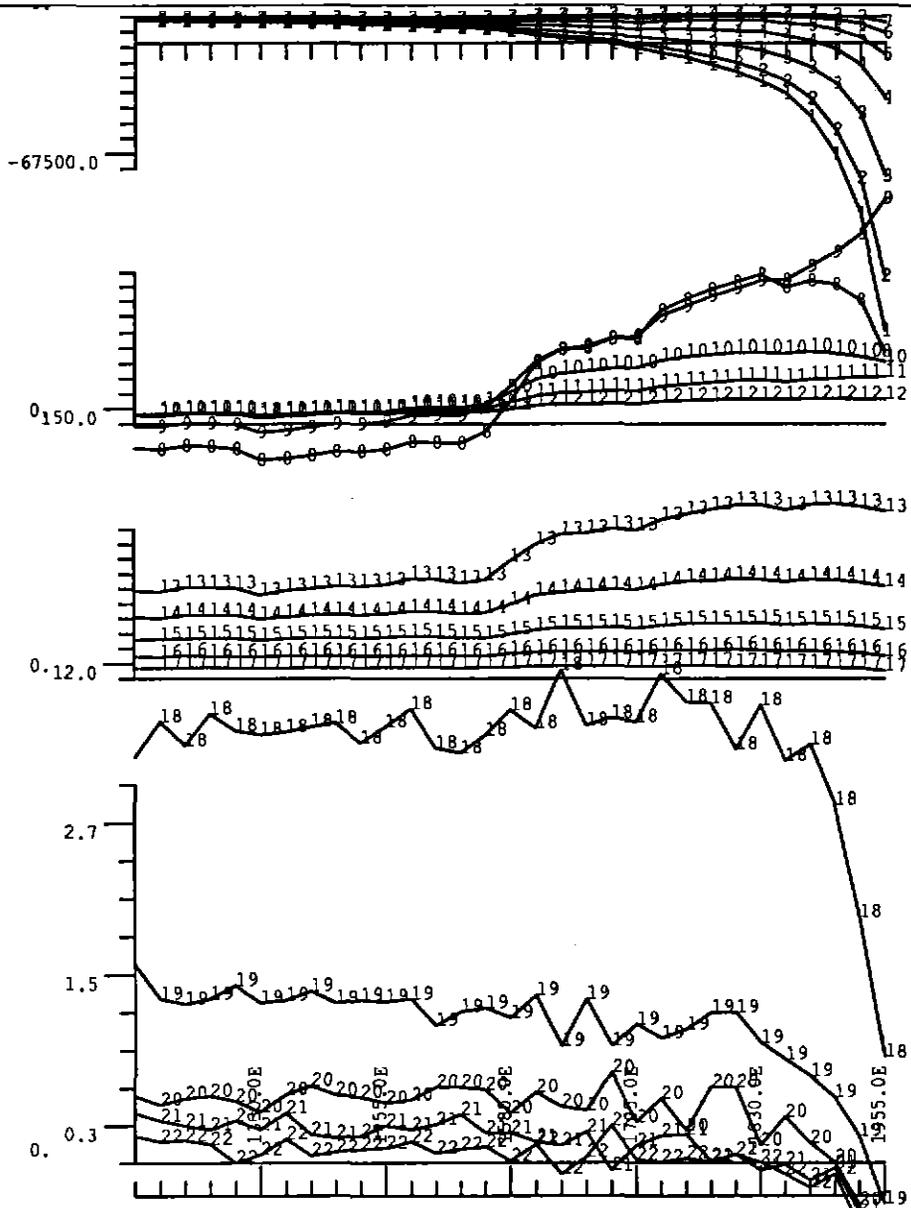
MOUNT ROLAND EM

A one loop survey using the Zonge GDP16 EM unit operating at 32 hz was completed. Both the vertical and the horizontal component data was obtained at 25 meter station spacing.

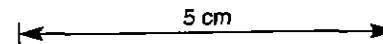
A current gathering formational or overburden conductor is identified on lines 1200 - 1600N, centered on 1600E, 1550E and 1400E on these three lines.

Sharp breaks in the slope of the vertical component at the peaks and troughs of these cross overs, identify the source of this response to be a broad near surface conductive unit. No further work is recommended.

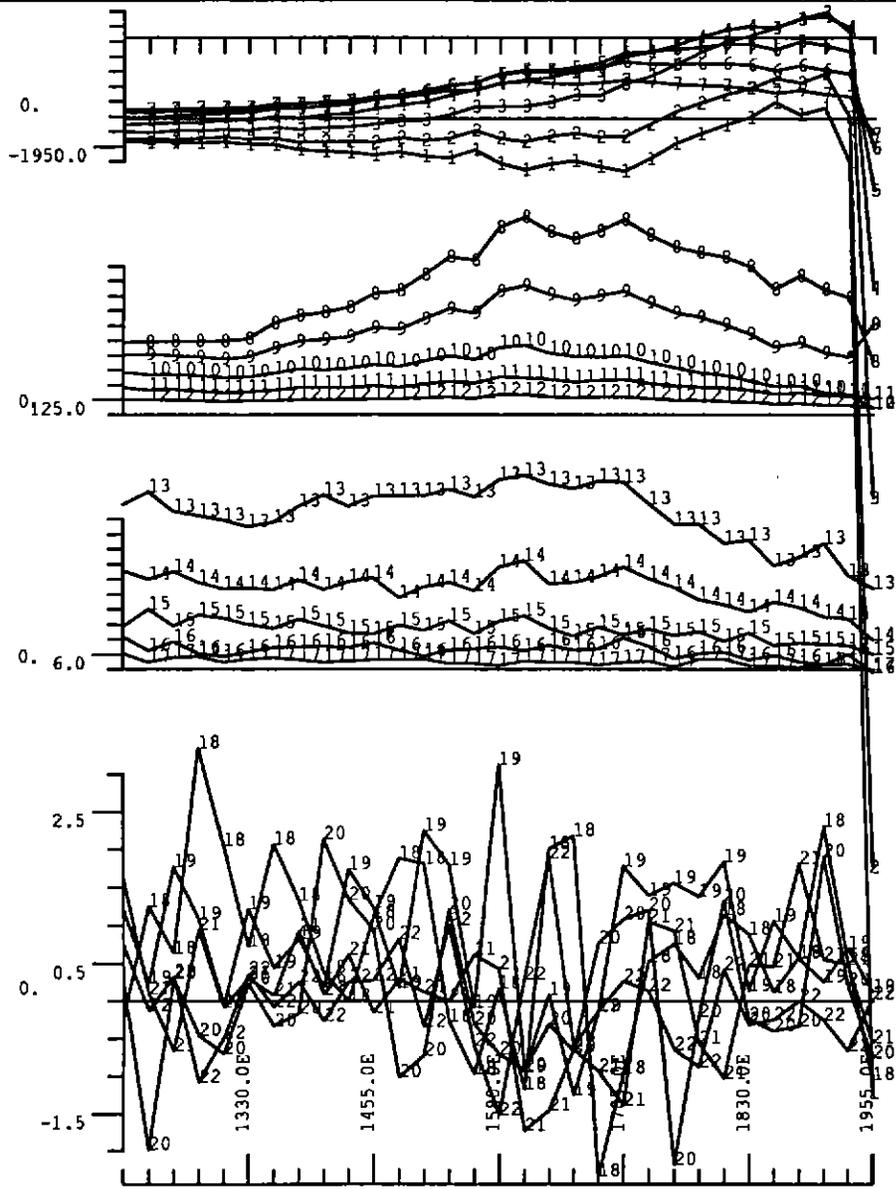
J S
7/7/93



MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1200
 READ BY RS
 PLOTTED BY RS
 Hz COMPONENT
 ZONGE GDP-16
 Scale 1: 7500 10t no : 50



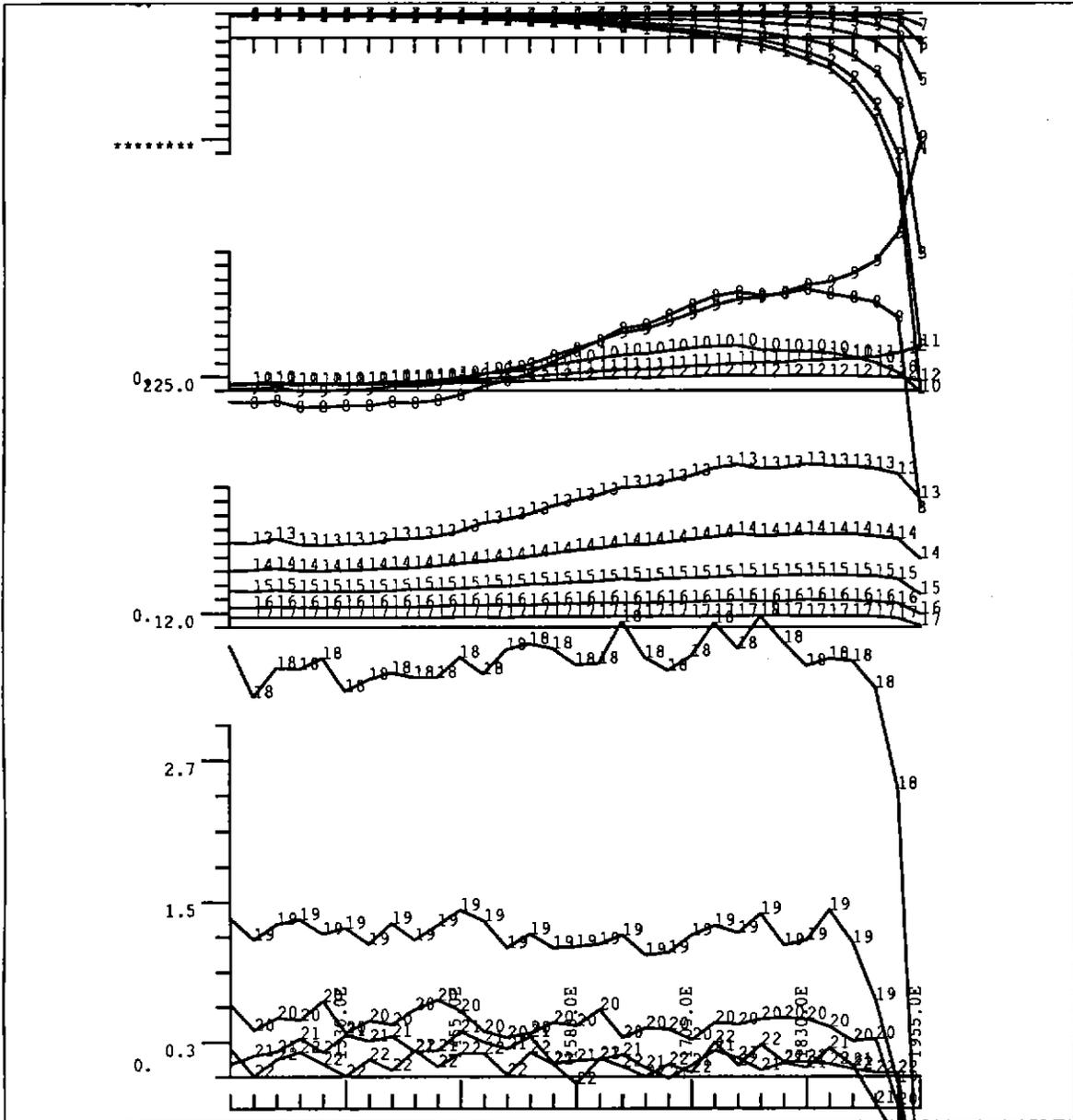
003022



MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1200
 READ BY RS
 PLOTTED BY RS
 Hx COMPONENT
 ZONGE GDP-16
 Scale 1: 750B10t no : 59

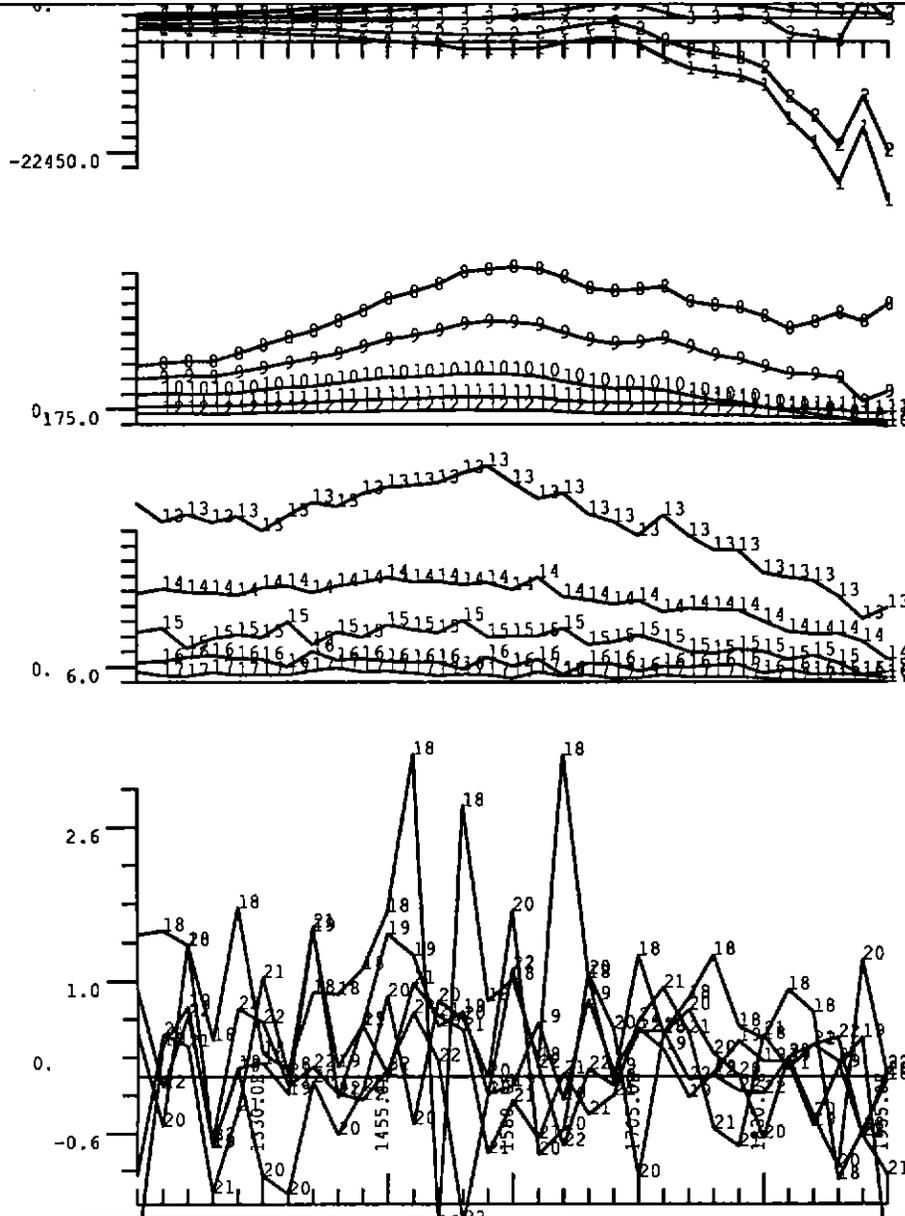
5 cm

003023

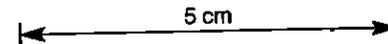


MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1400
 READ BY RS
 PLOTTED BY RS
 Hz COMPONENT
 ZONGE GDP-16
 Scale 1: 7500 10t no : 51

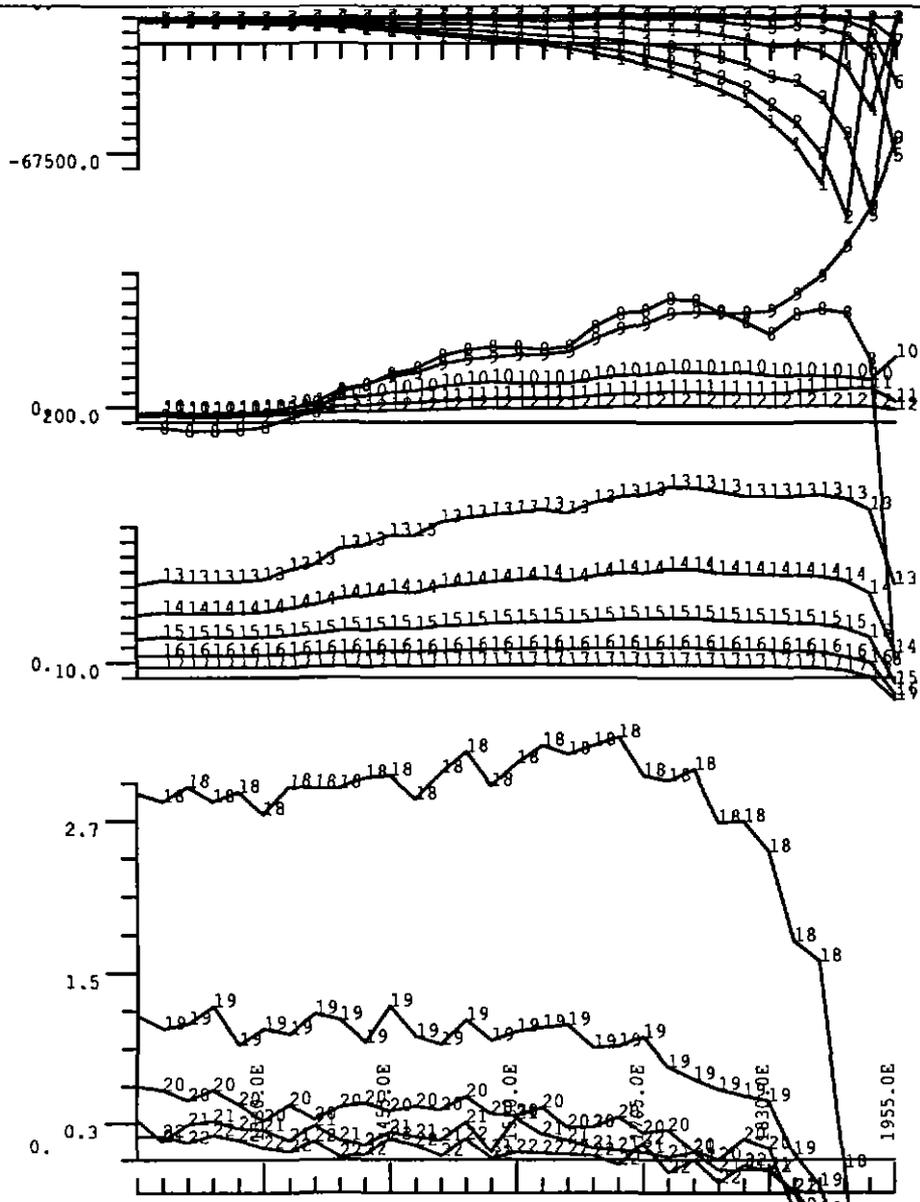
003024



MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1400
 READ BY RS
 PLOTTED BY RS
 Hx COMPONENT
 ZONGE GDP-16
 Scale 1: 750910t no : 58

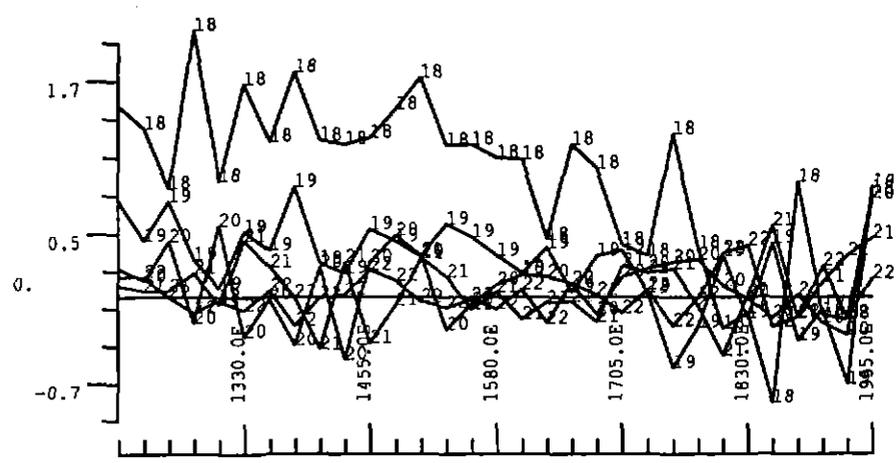
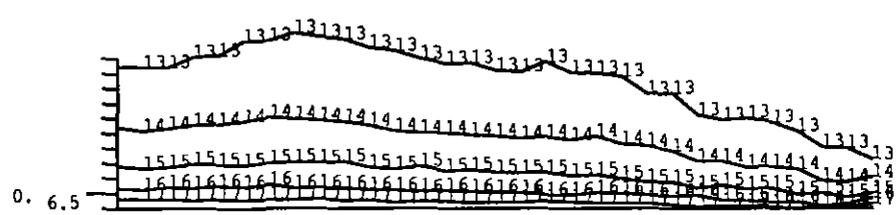
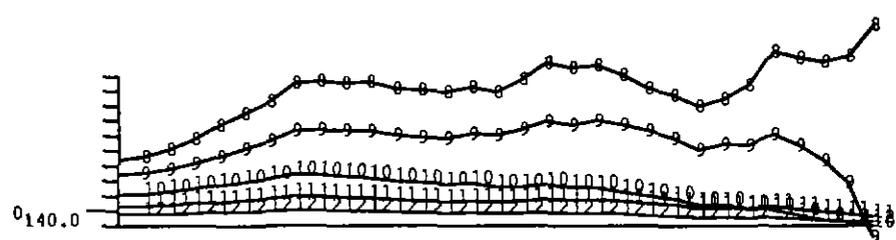
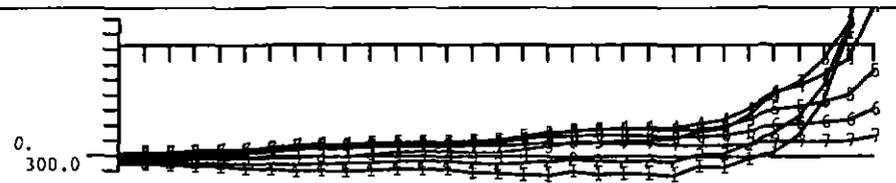


003025

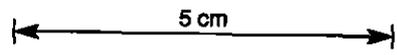


MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1600
 READ BY RS
 PLOTTED BY RS
 Hz COMPONENT
 ZONGE GDP-16
 Scale 1: 750010t no : 52

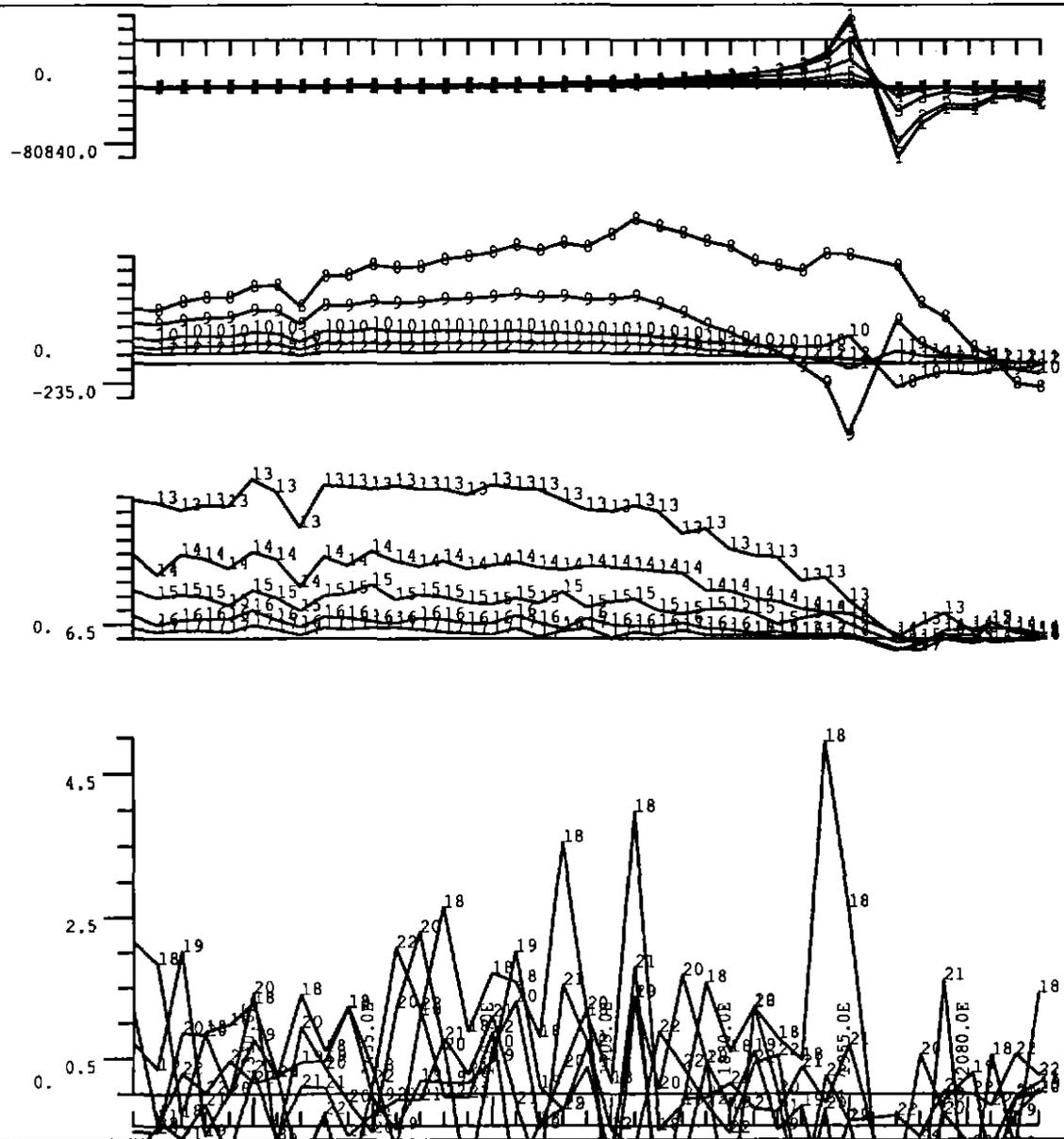
003026



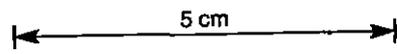
MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1600
 READ BY RS
 PLOTTED BY RS
 Hx COMPONENT
 ZONGE GDP-16
 Scale 1: 7500 10t no : 57



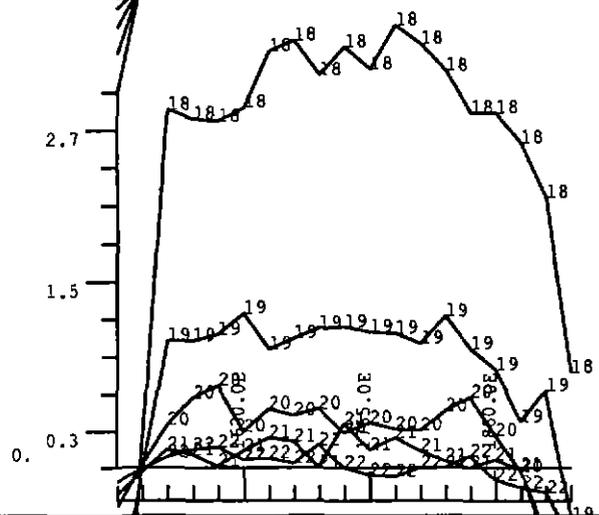
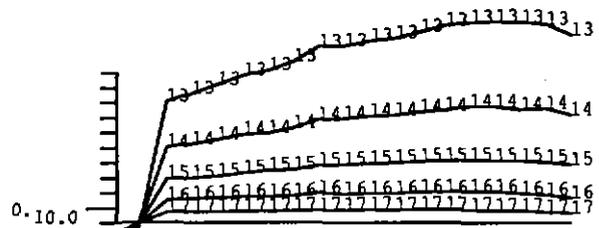
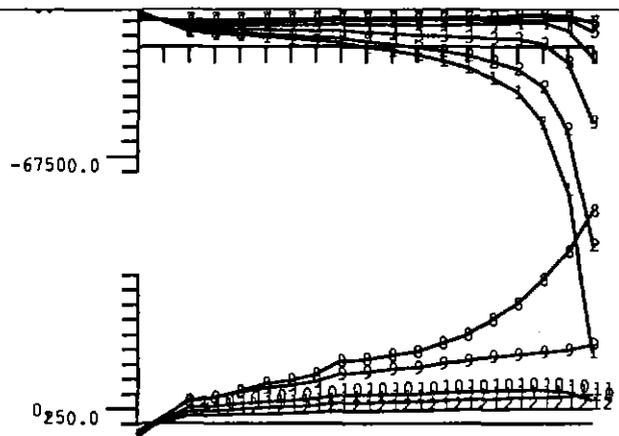
003027



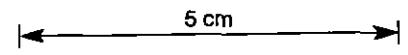
MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 1800
 READ BY RS
 PLOTTED BY RS
 Hx COMPONENT
 ZONGE GDP-16
 Scale 1: 750@10t no : 56



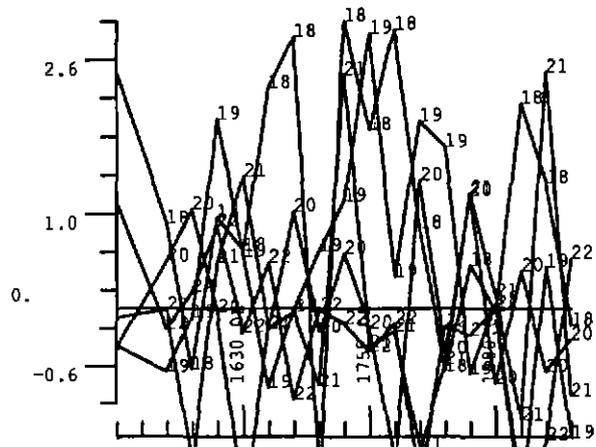
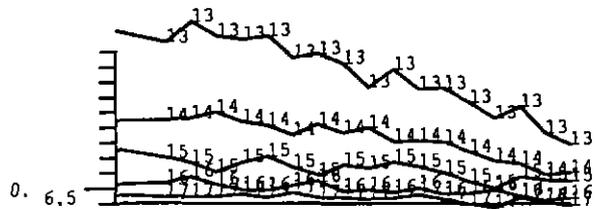
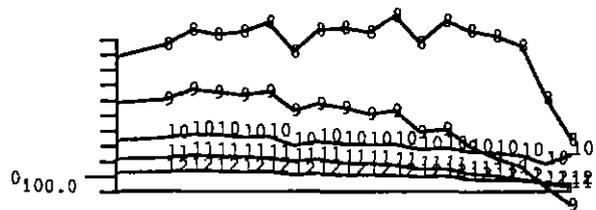
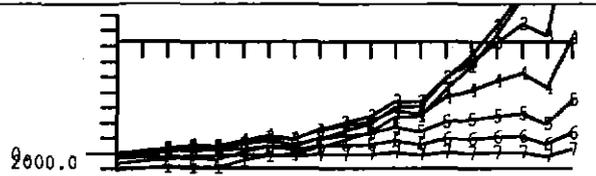
003029



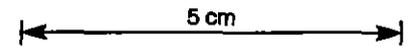
MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 2000
 READ BY RS
 PLOTTED BY RS
 Hz COMPONENT
 ZONGE GDP-16
 Scale 1: 750018t no : 54



003030



MT ROLAND EM SURVEY
 SURVEY DATE 24/11/92
 LOOP 1 LINE 2000
 READ BY RS
 PLOTTED BY RS
 Hx COMPONENT
 ZONGE GDP-16
 Scale 1: 7500 10t no : 55



003031

003032

APPENDIX III

FILE NOTE:

GOWRIE PARK

A three loop UTEM survey was completed with only the vertical component being measured.

A number of cultural features are affecting the data set, although invariably all of them are recognised as sharp cross overs lasting till very short times, in all cases less than one millisecond.

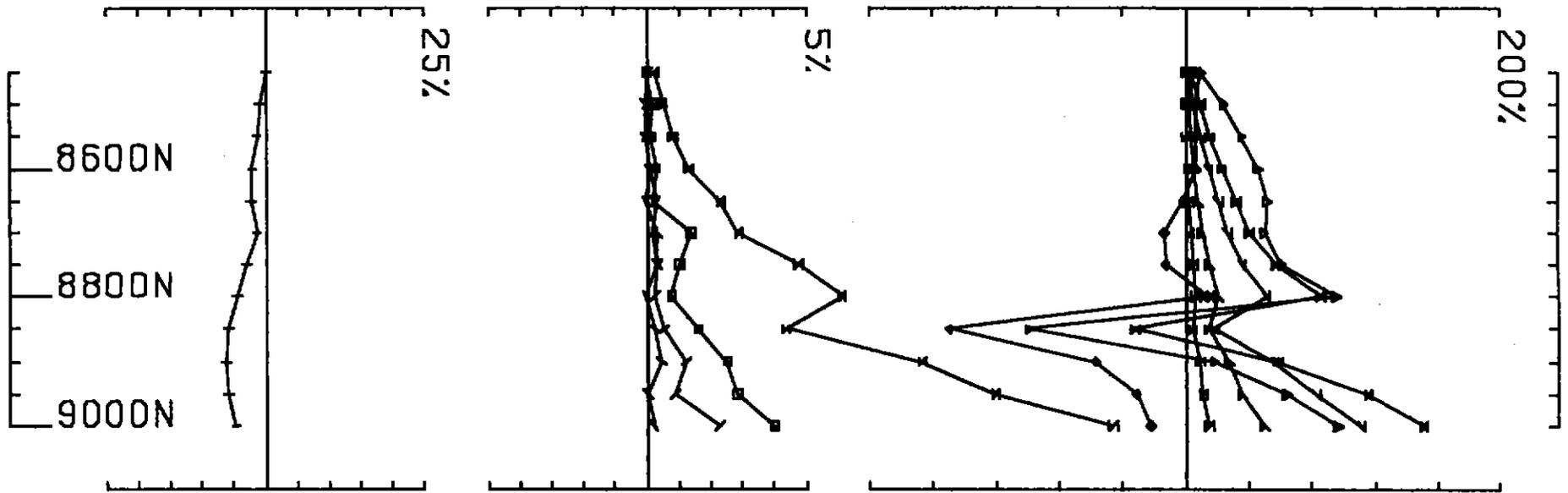
However, no effects which could be attributed to bedrock conductors are evident in the data set.

J S
7/7/93

003034

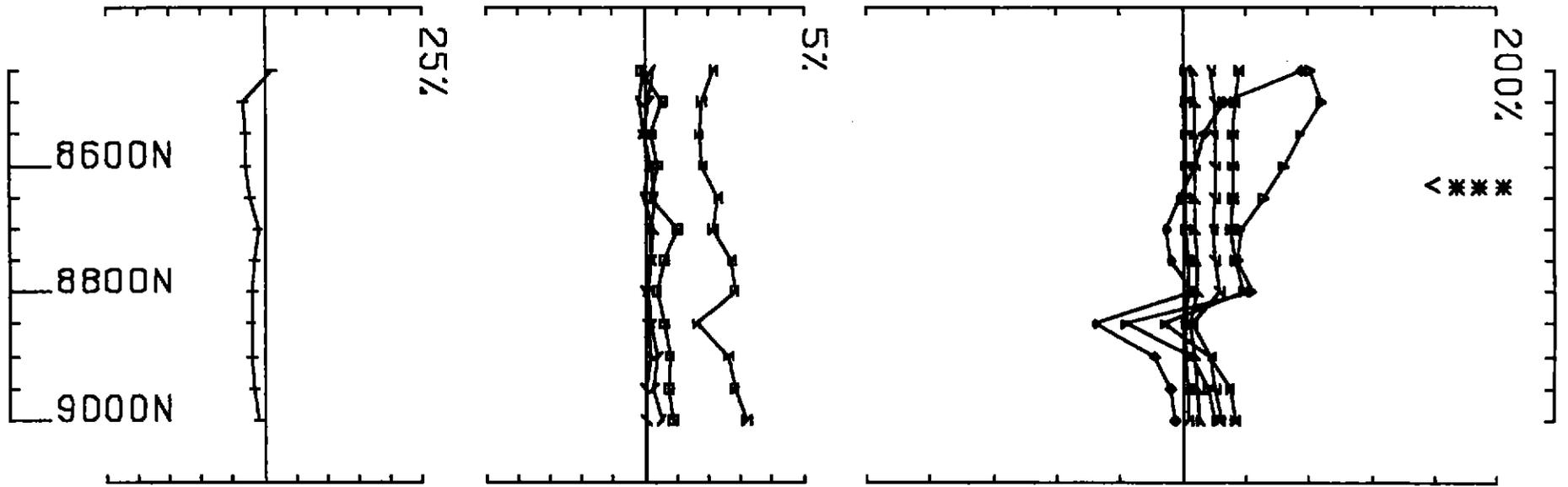
JOB 9309
GOWRIE PARK
UTEM SURVEY

LOOP 1
LINES 2800E, 2600E, 2400E,
2200E, 2000E



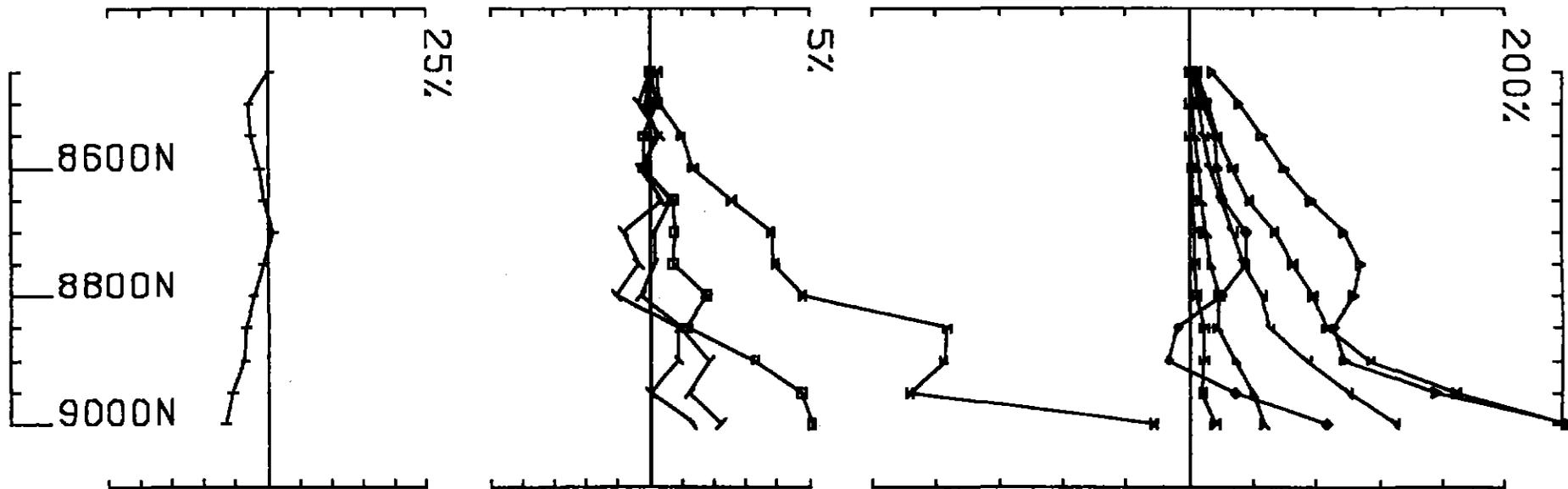
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2800 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003035



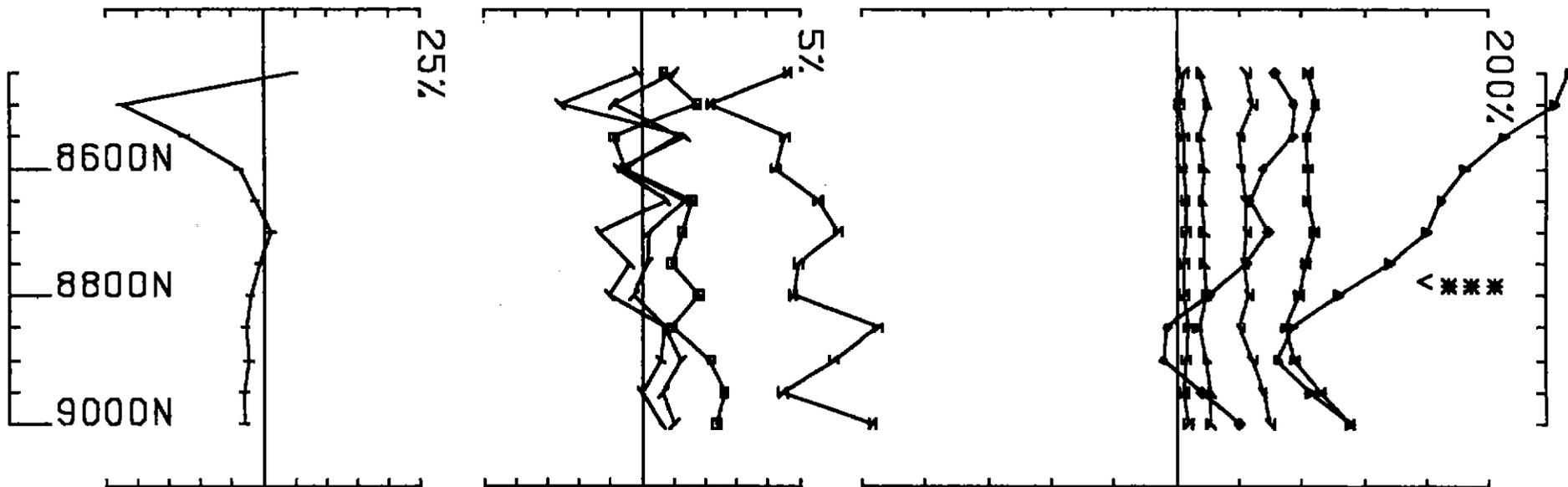
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2800 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003036



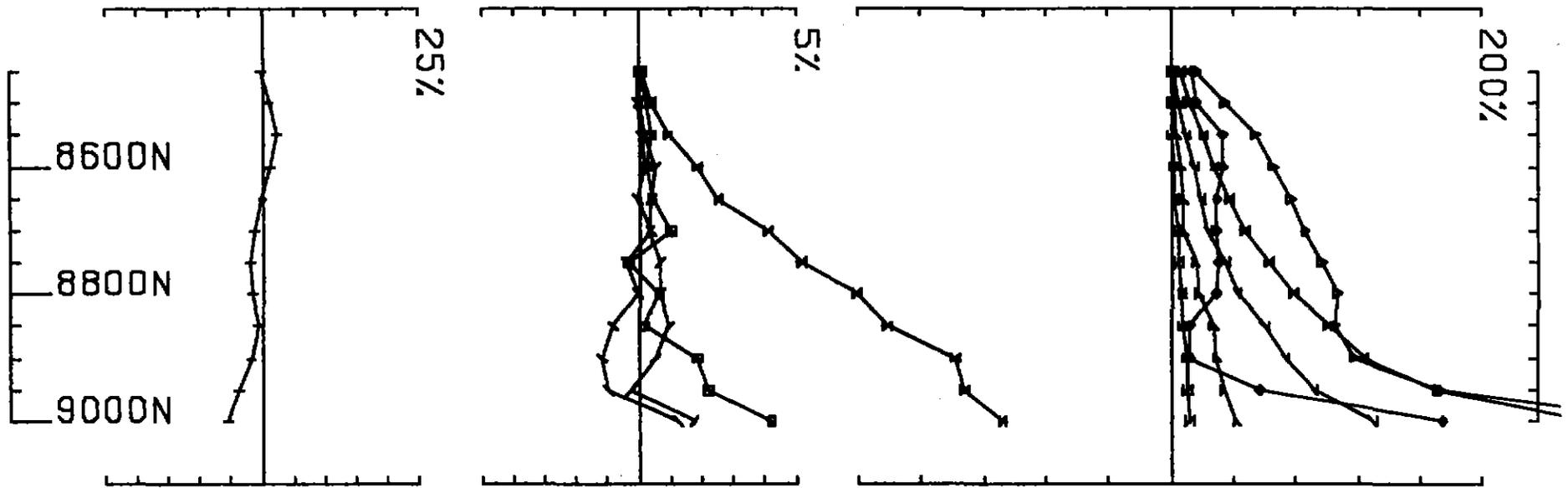
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2600 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003037



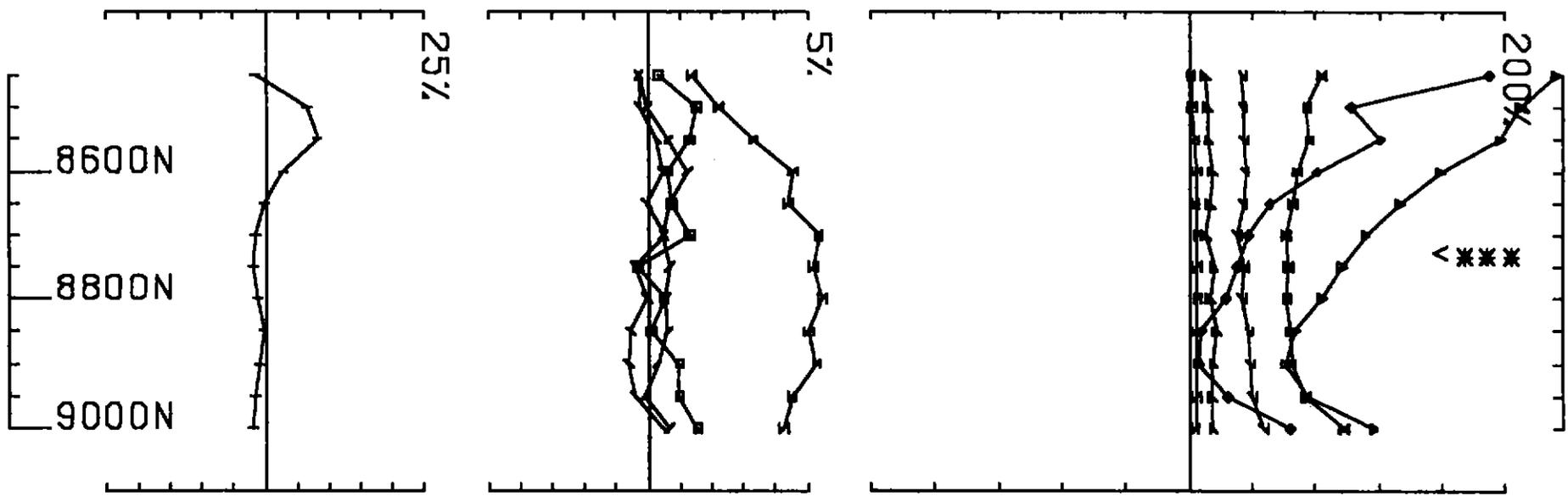
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2600 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003038



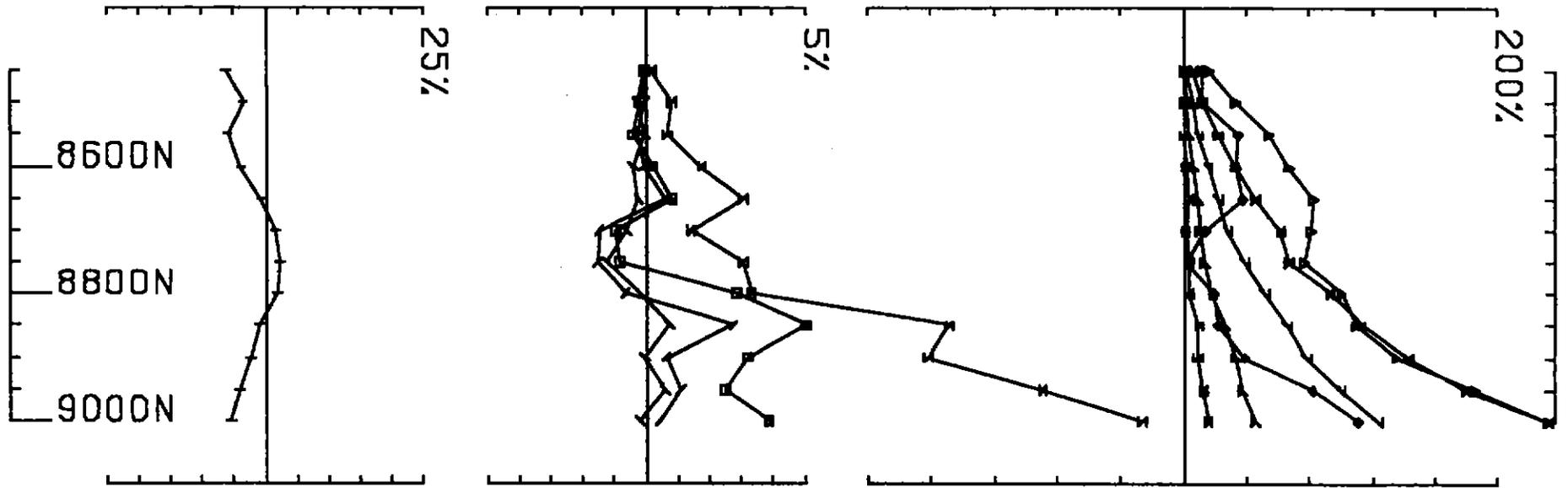
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2400 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003039



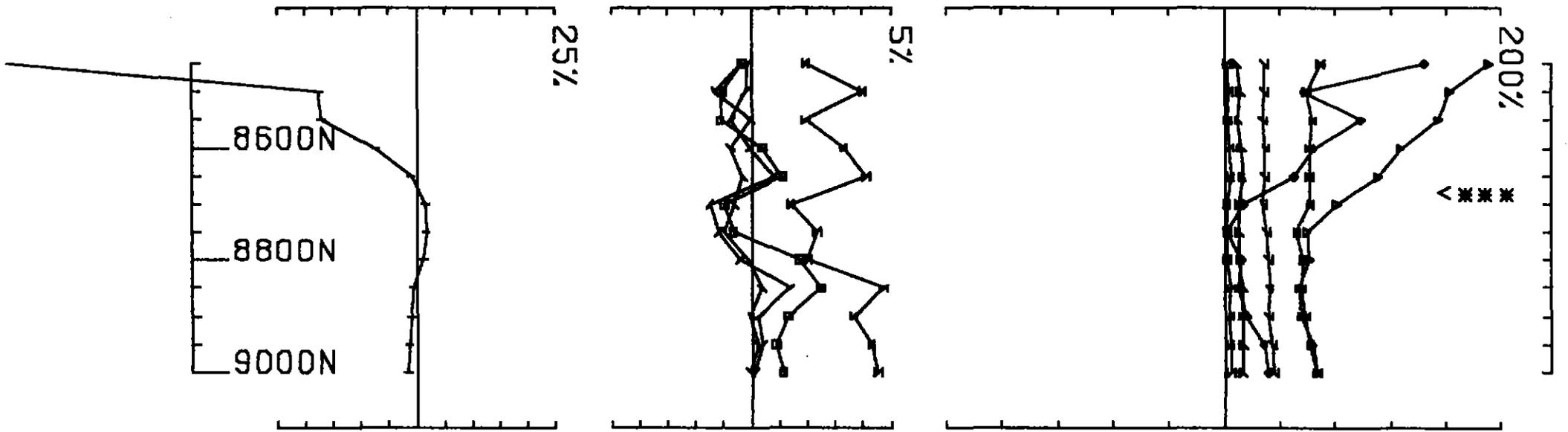
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2400 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003040



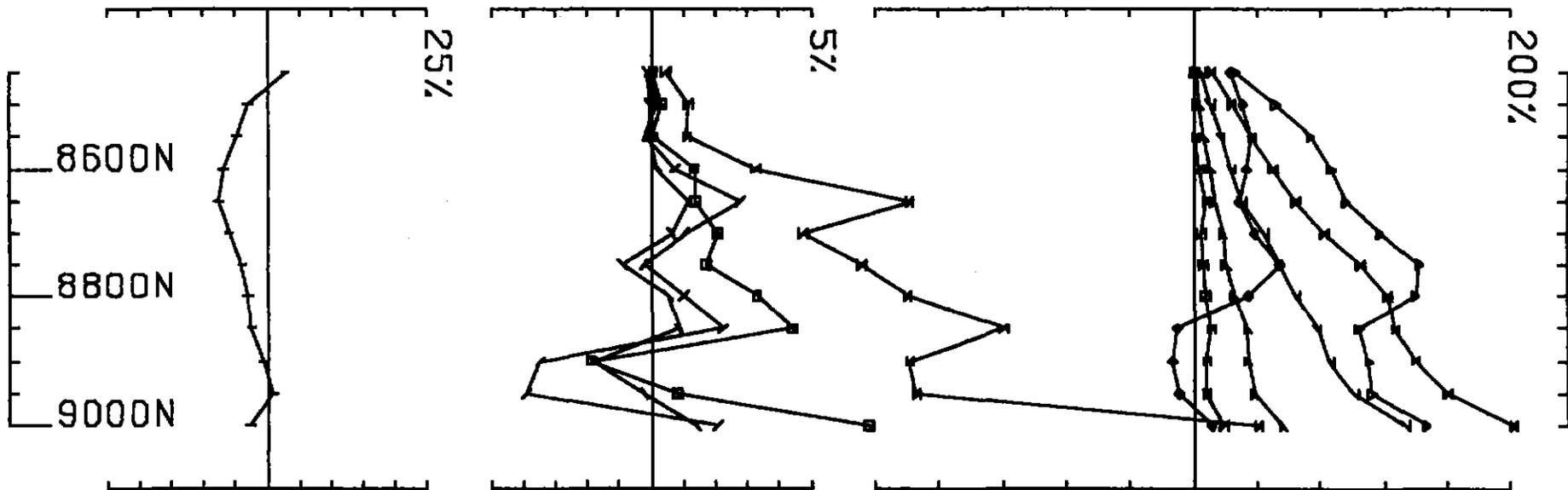
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2200 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003041



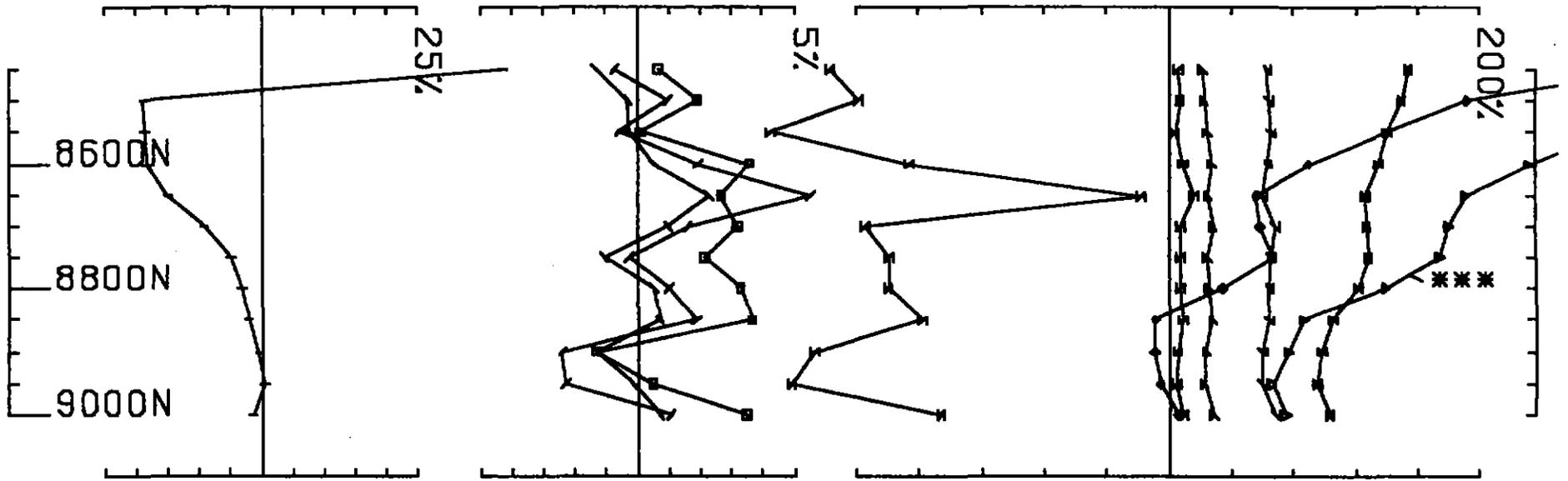
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2200 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003042



UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2000 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003043

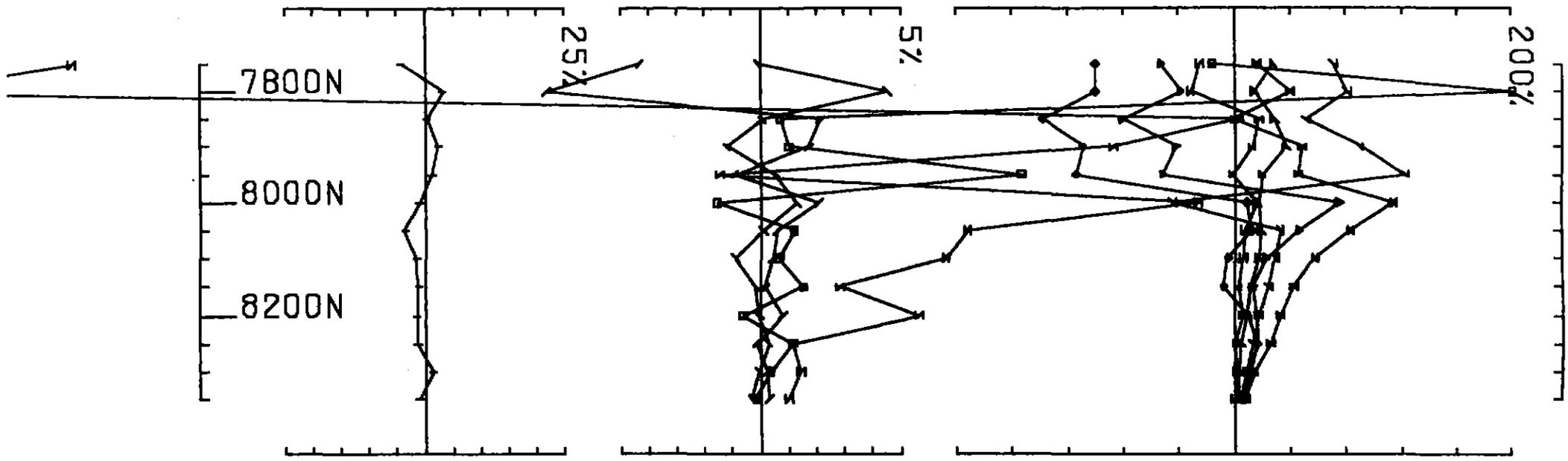


UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 1 LINE 2000 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003044

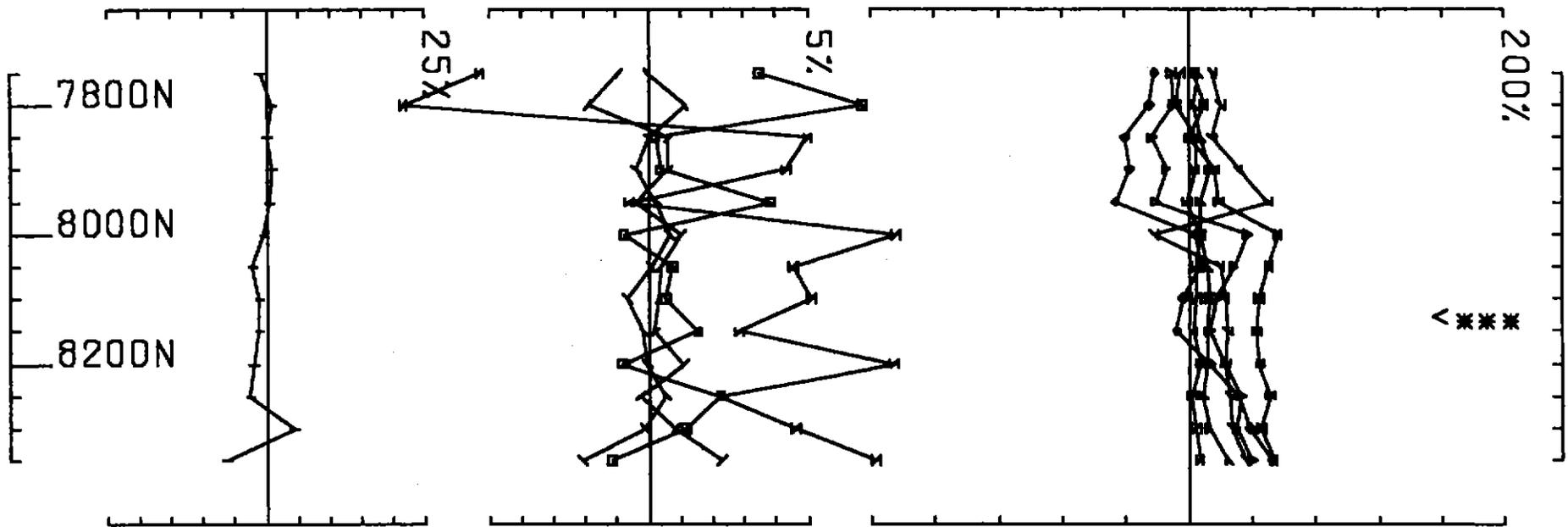
JOB 9309
GOWRIE PARK
UTEM SURVEY

LOOP 2
LINES 2000E, 2200E, 2400E,
2600E, 2800E, 3000E



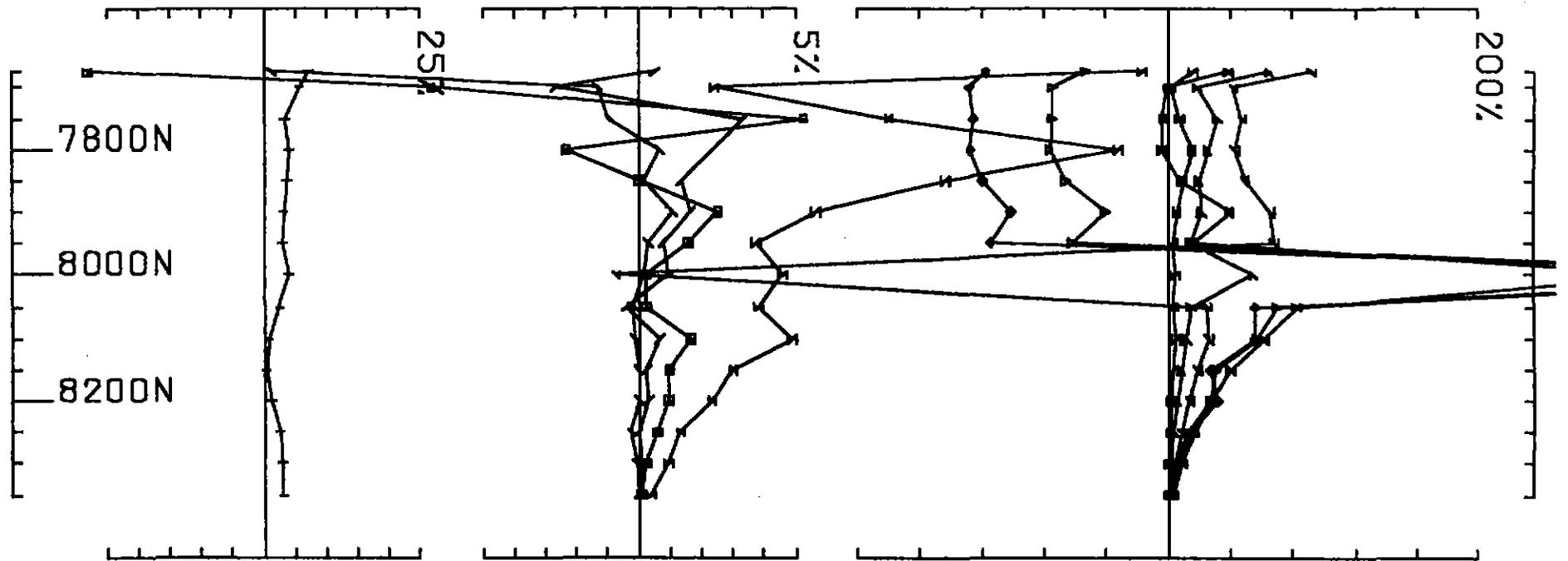
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2000 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003046



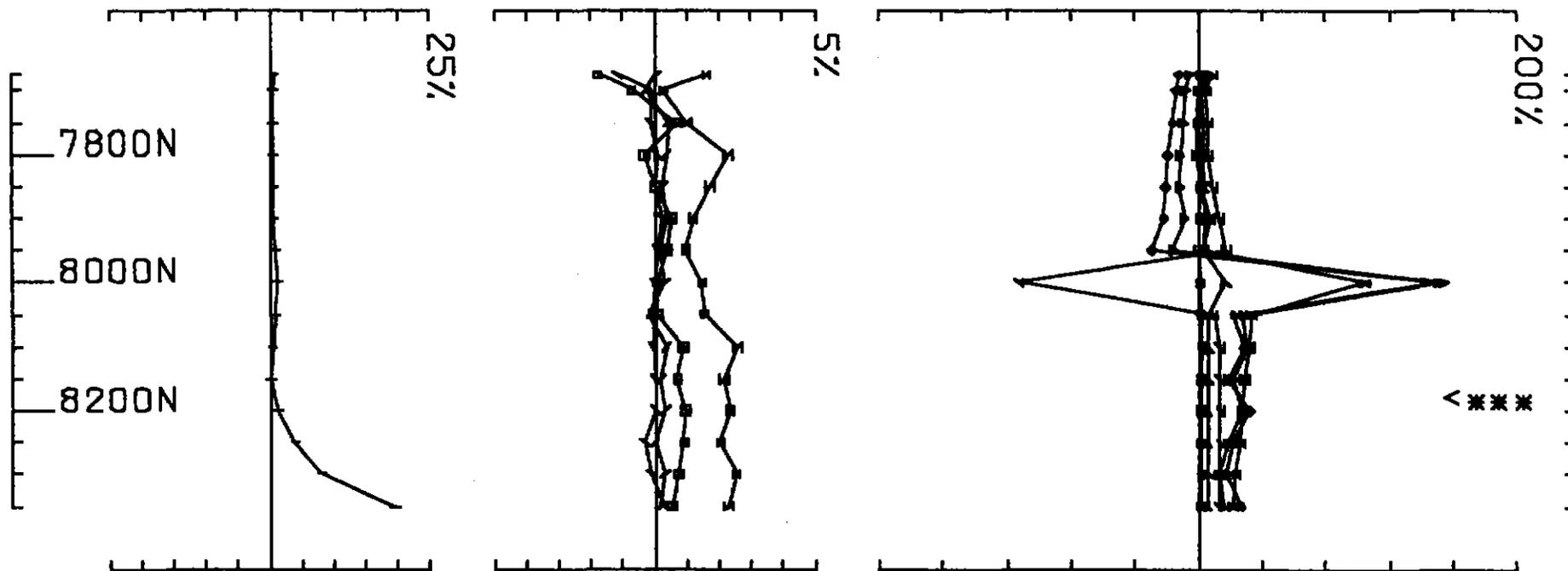
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2000 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003047



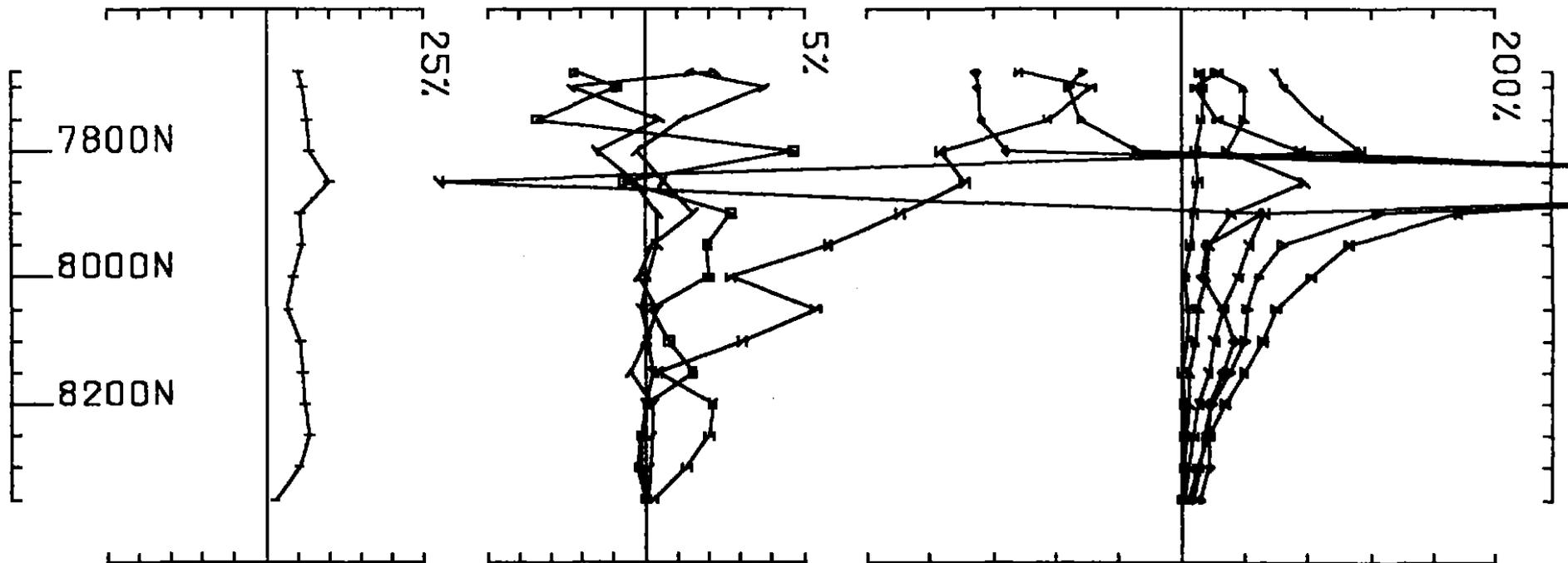
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2200 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003048



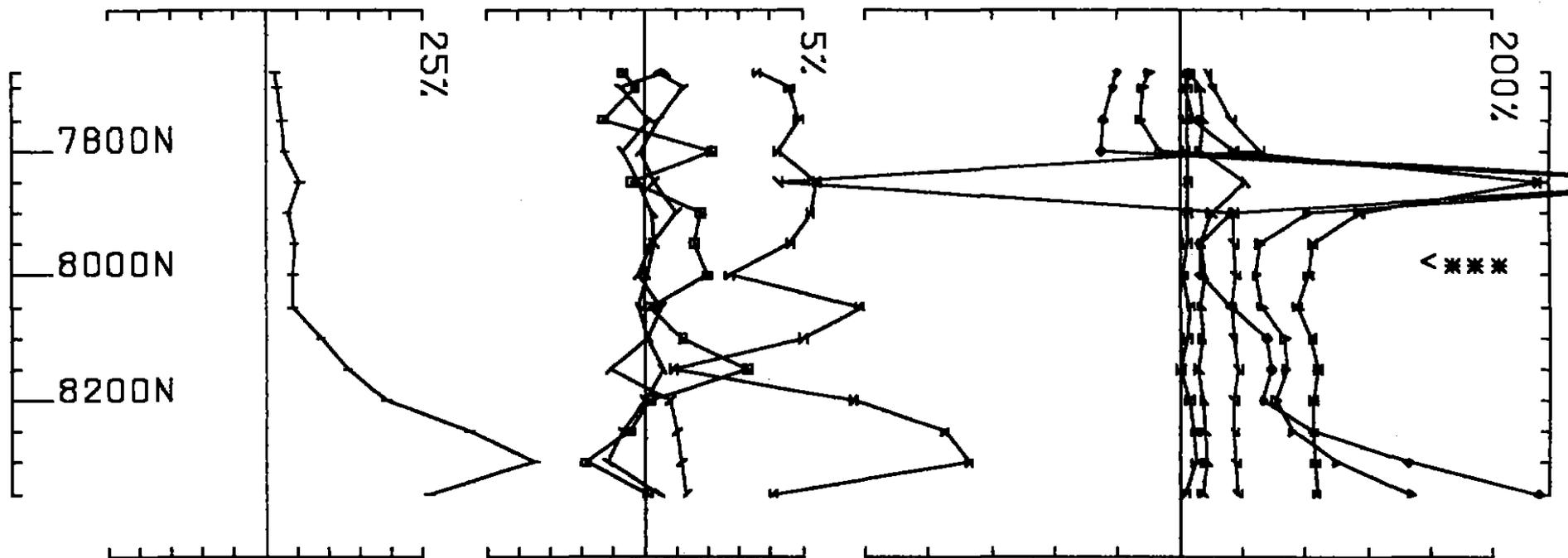
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2200 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003049



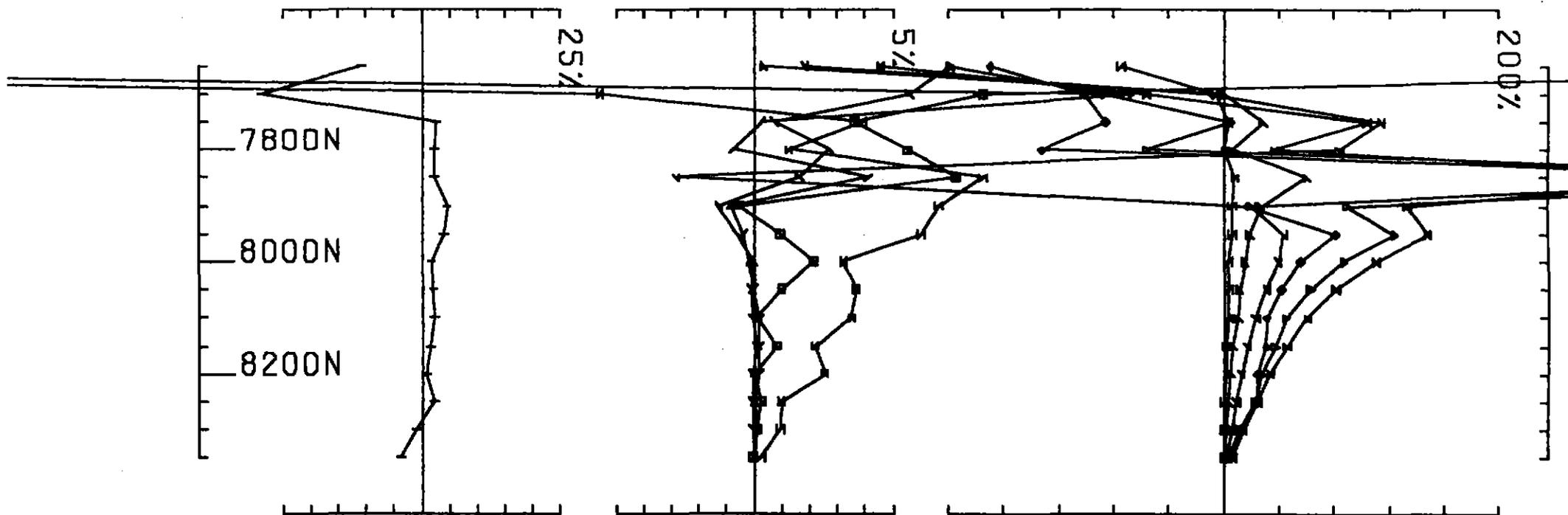
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2400 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003050



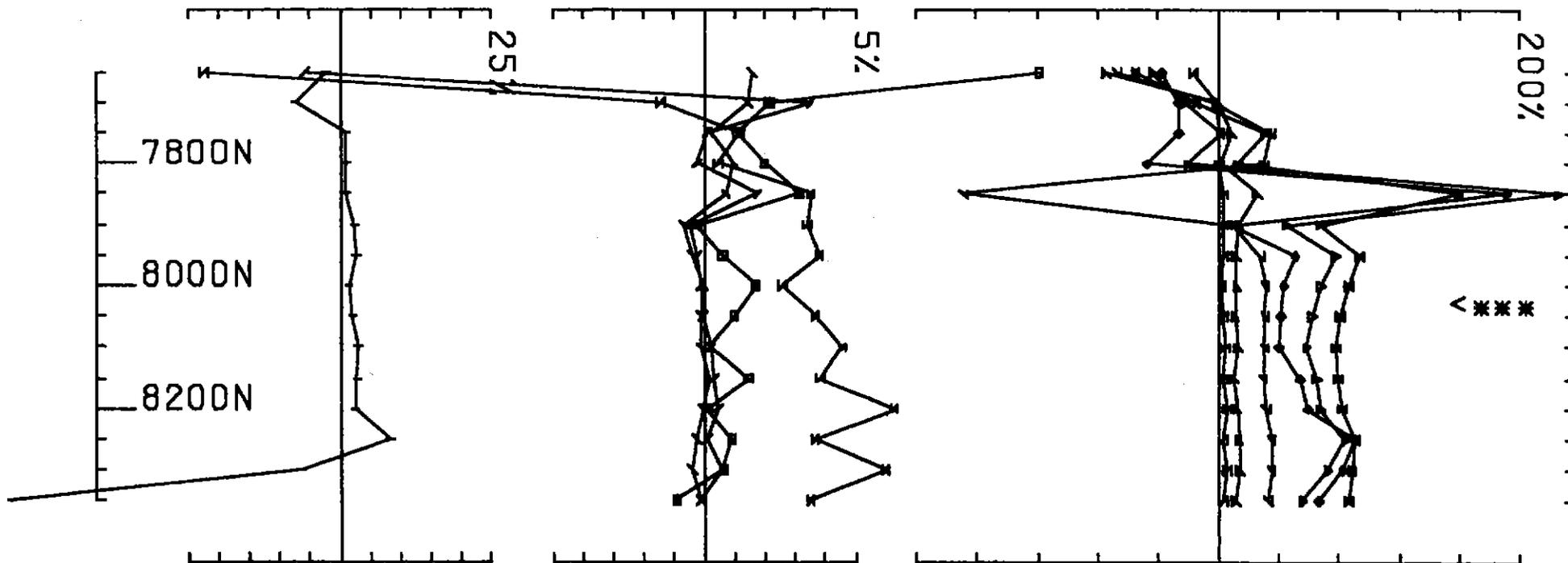
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2400 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003051



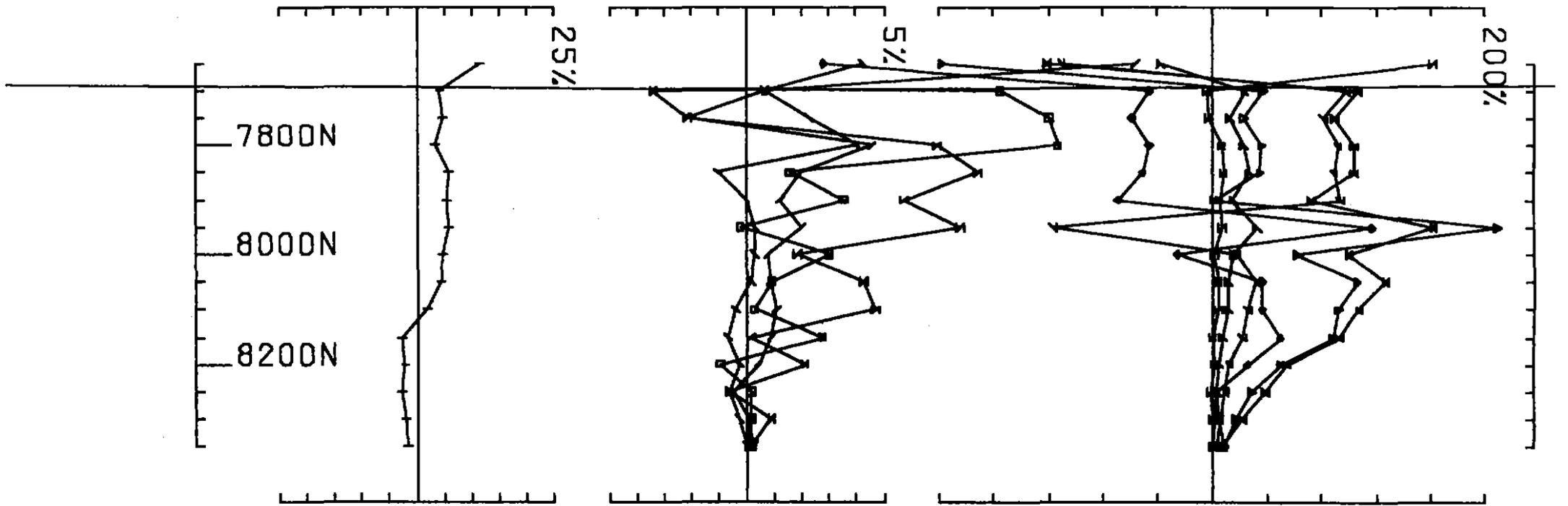
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2600 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003052

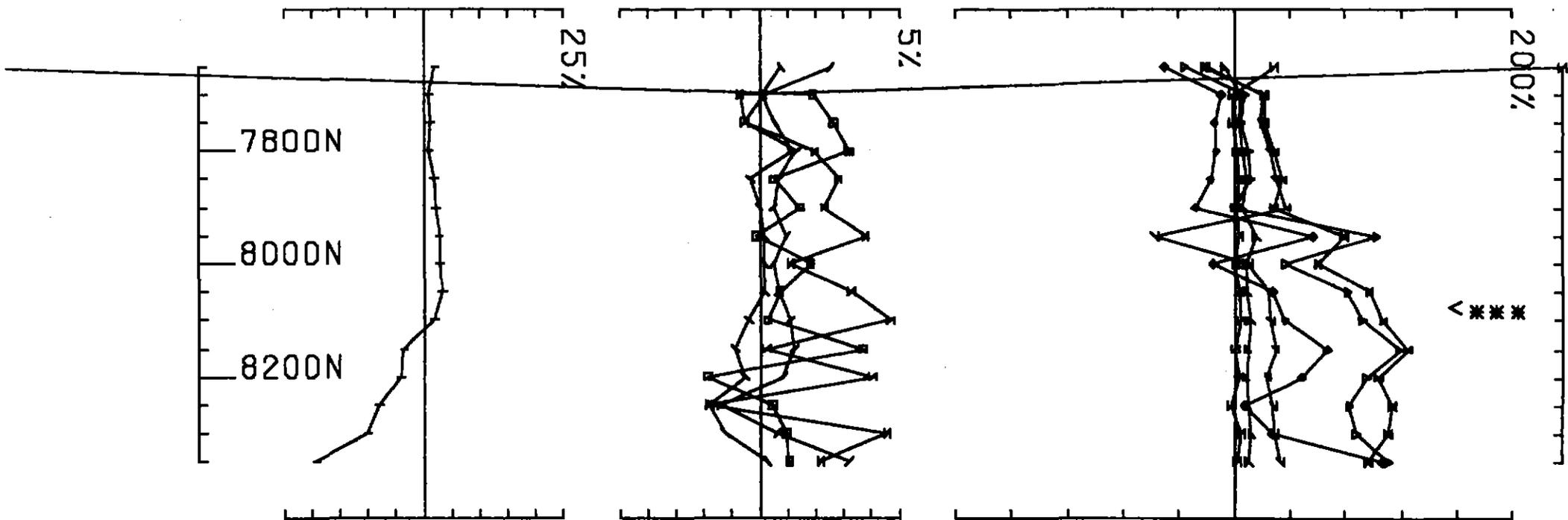


UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2600 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003053

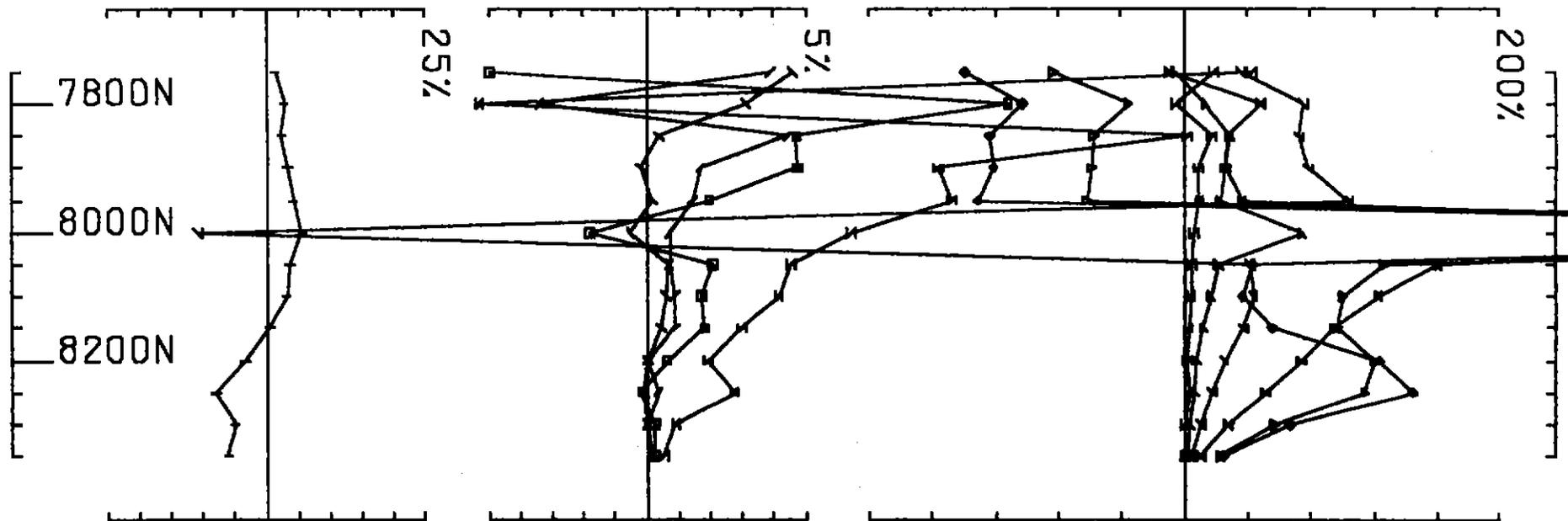


UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2800 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.



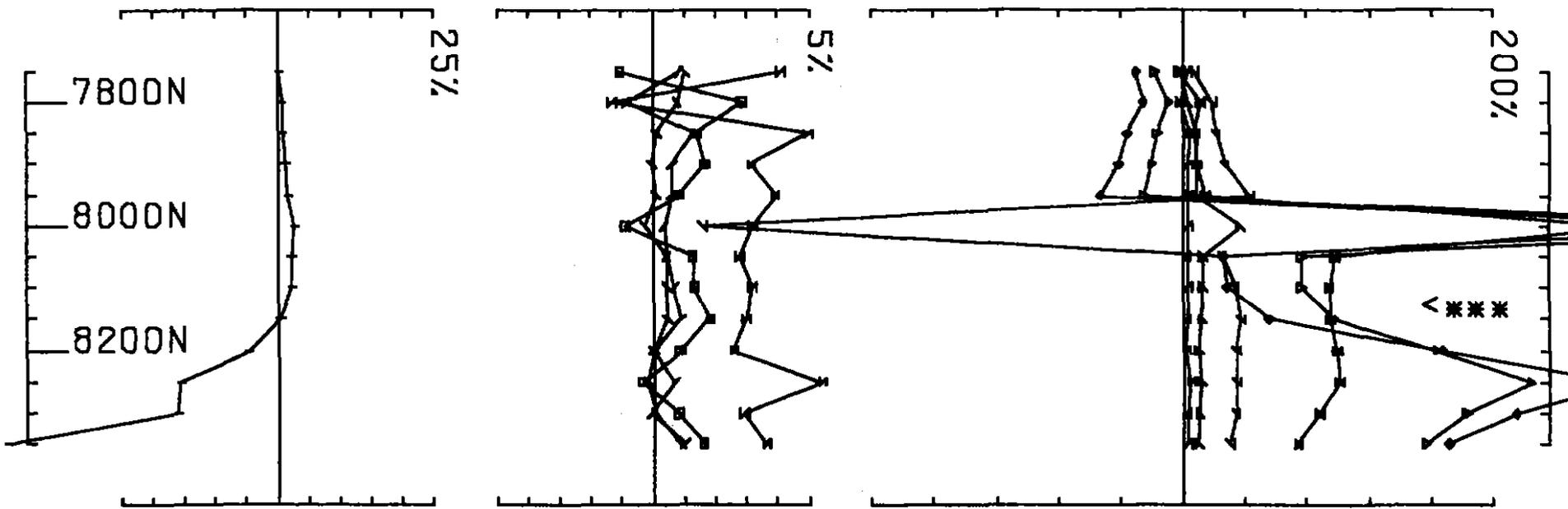
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 2800 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003055



UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 3000 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003056



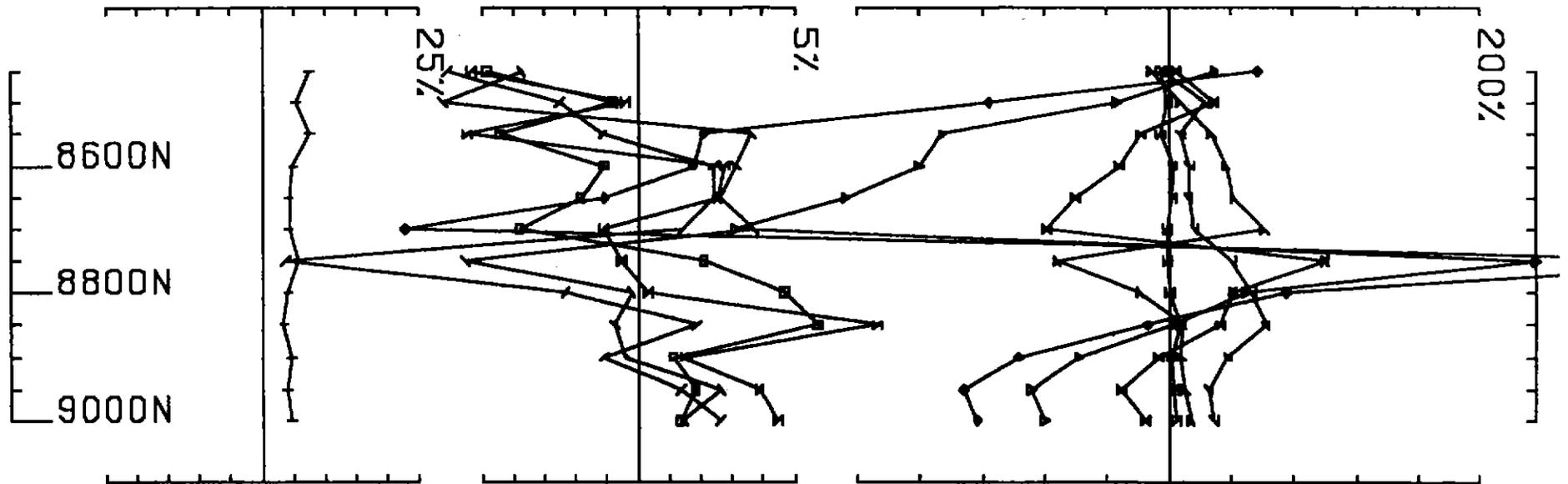
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 2 LINE 3000 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003057

003058

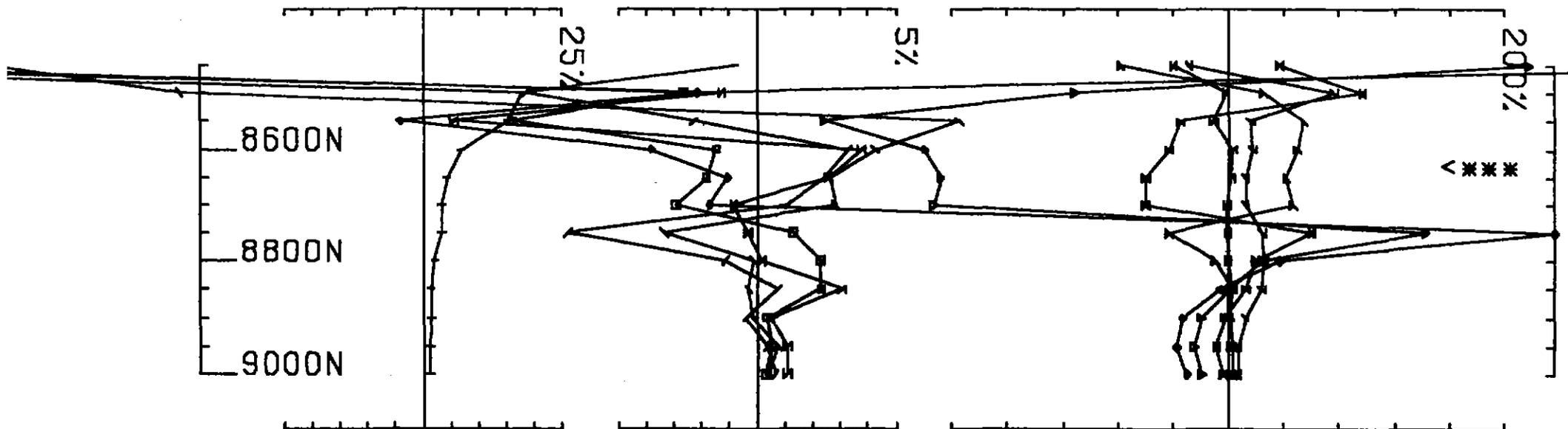
**JOB 9309
GOWRIE PARK
UTEM SURVEY**

**LOOP 3
LINES 4000E, 3800E, 3600E,
3400E, 3200E, 3000E**



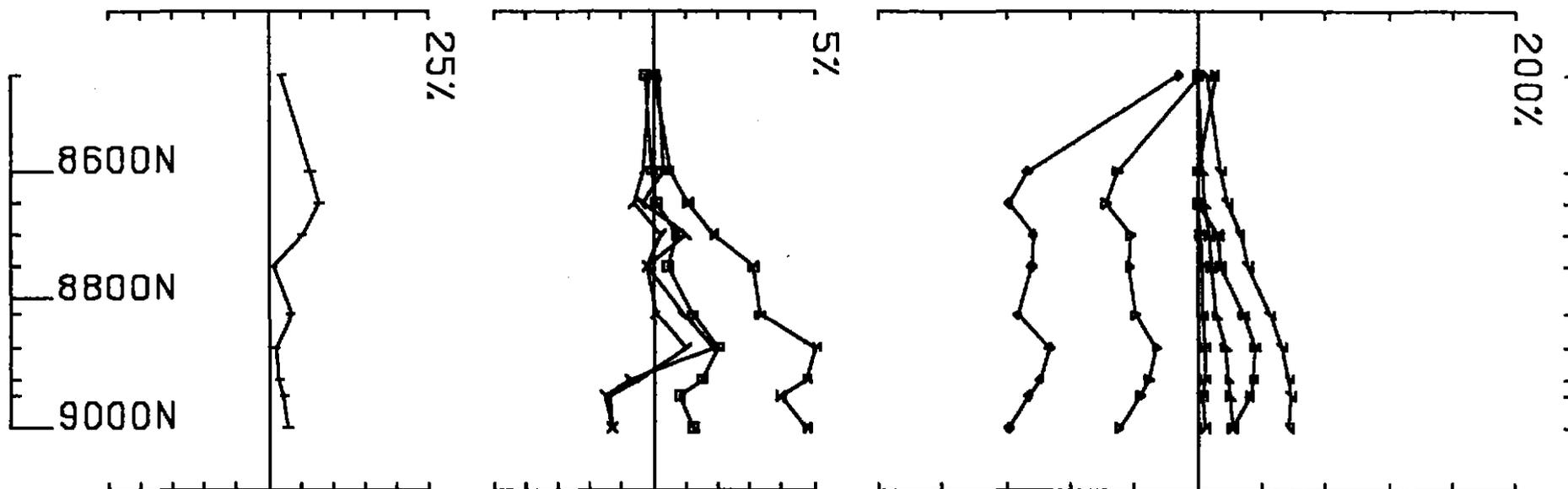
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 4000 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003039



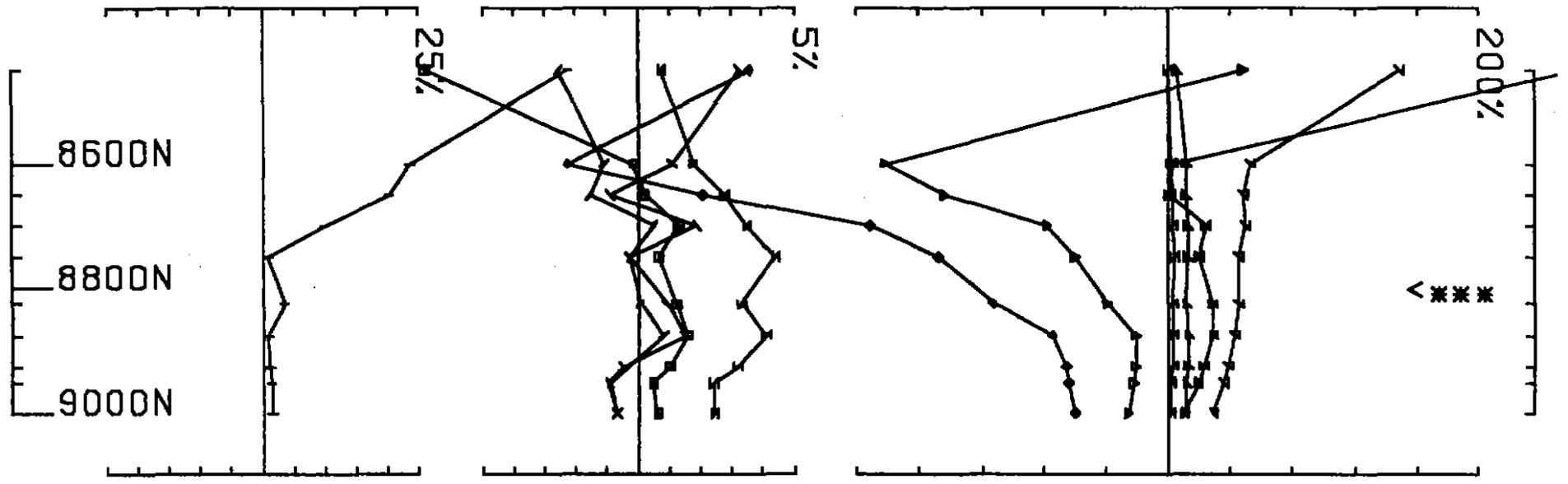
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 4000 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003060



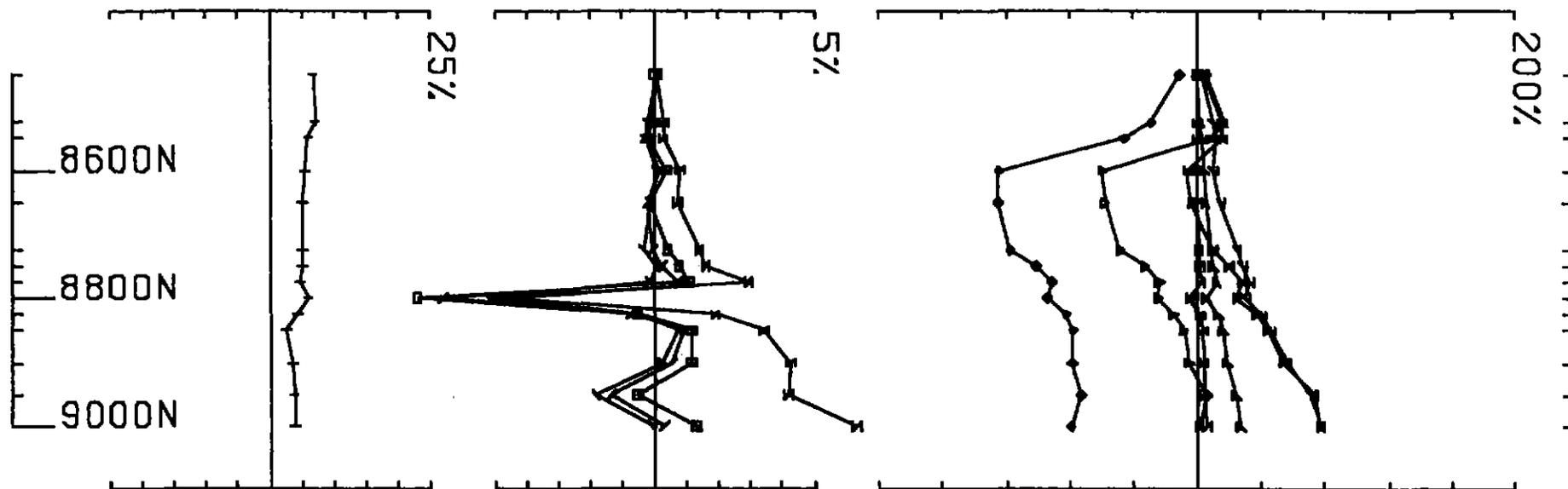
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3800 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003061



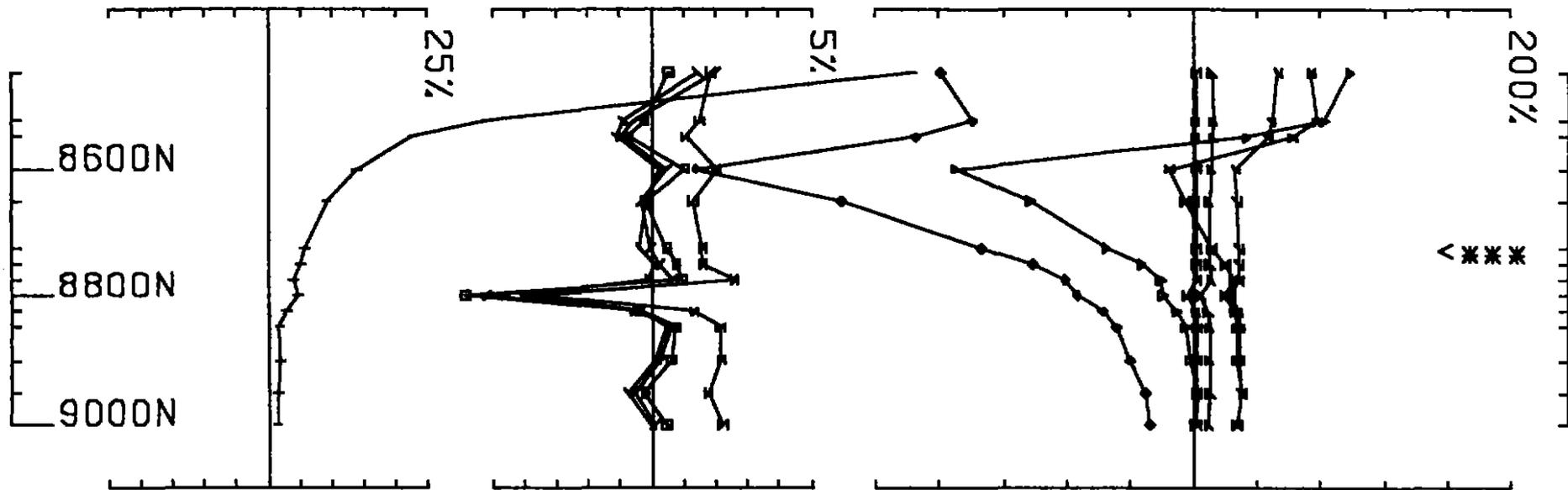
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3800 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003062



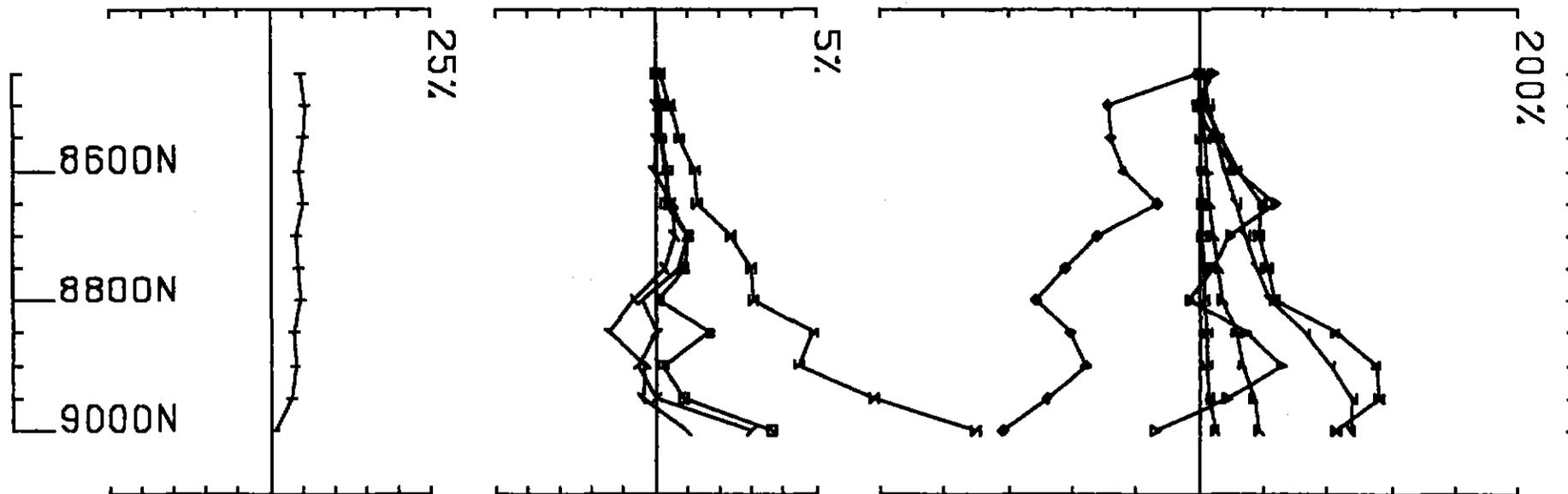
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3600 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003063



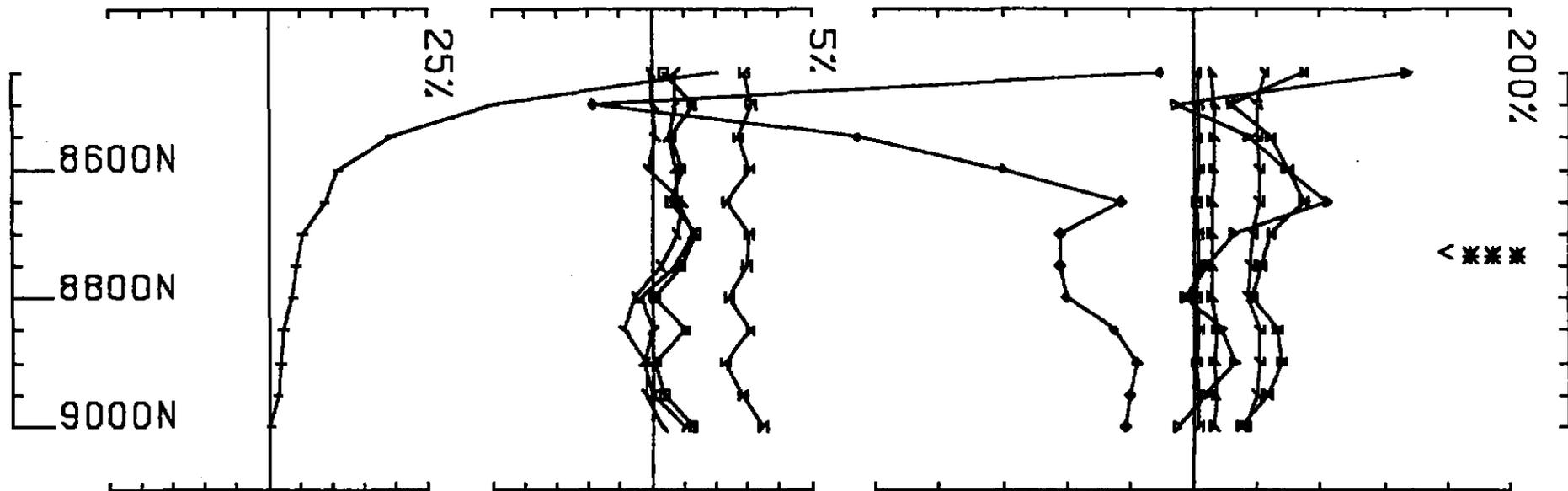
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3600 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003064



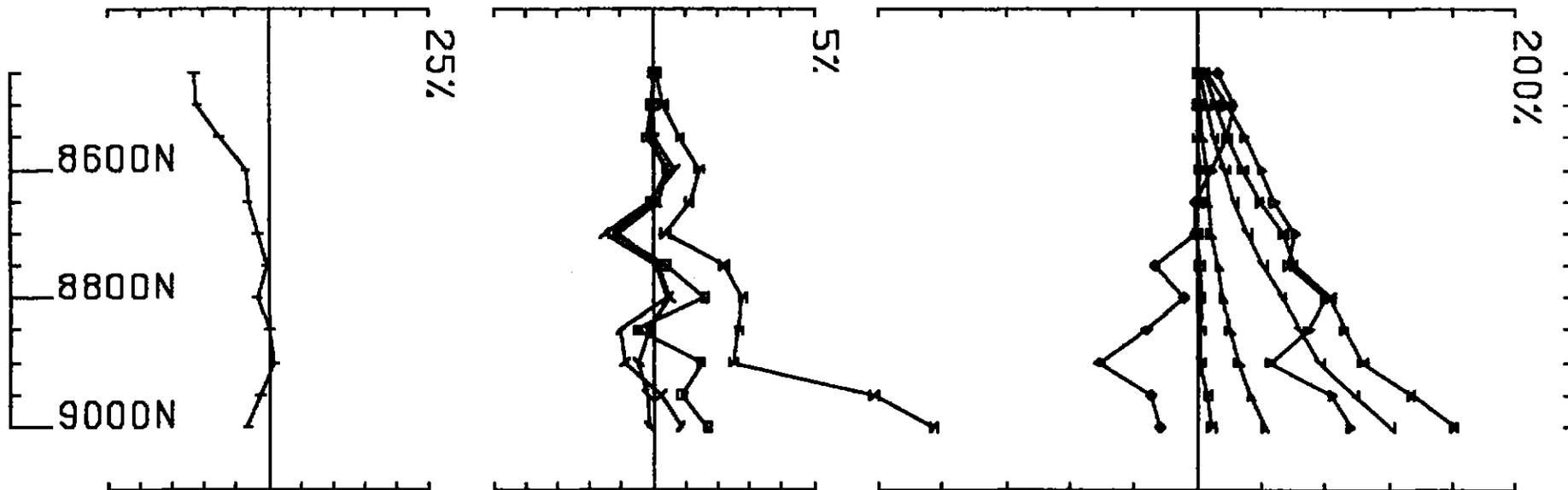
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3400 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003065



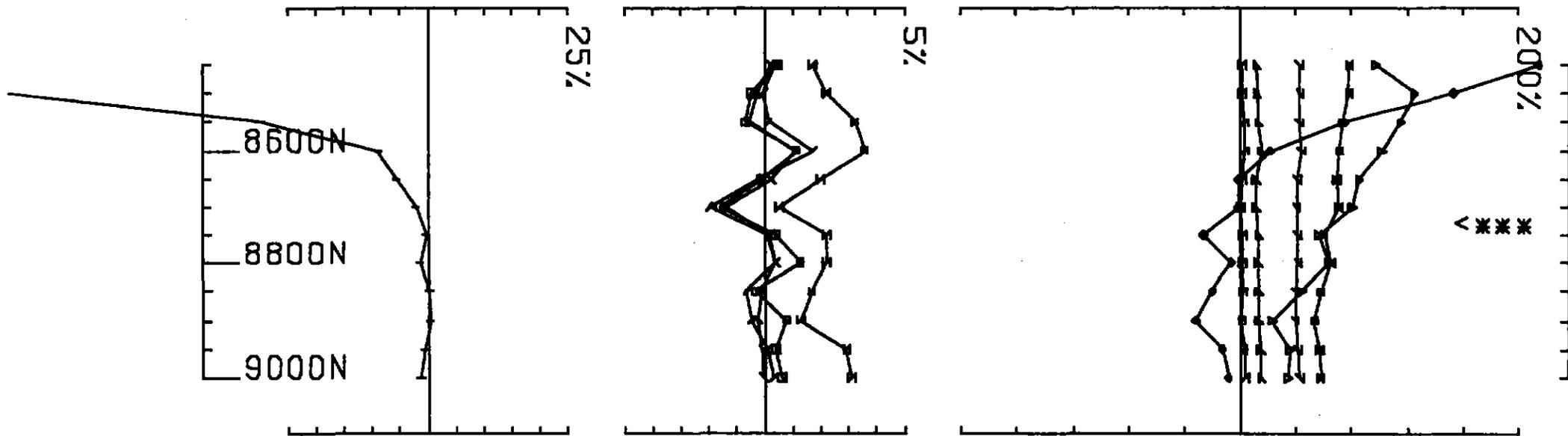
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3400 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003066



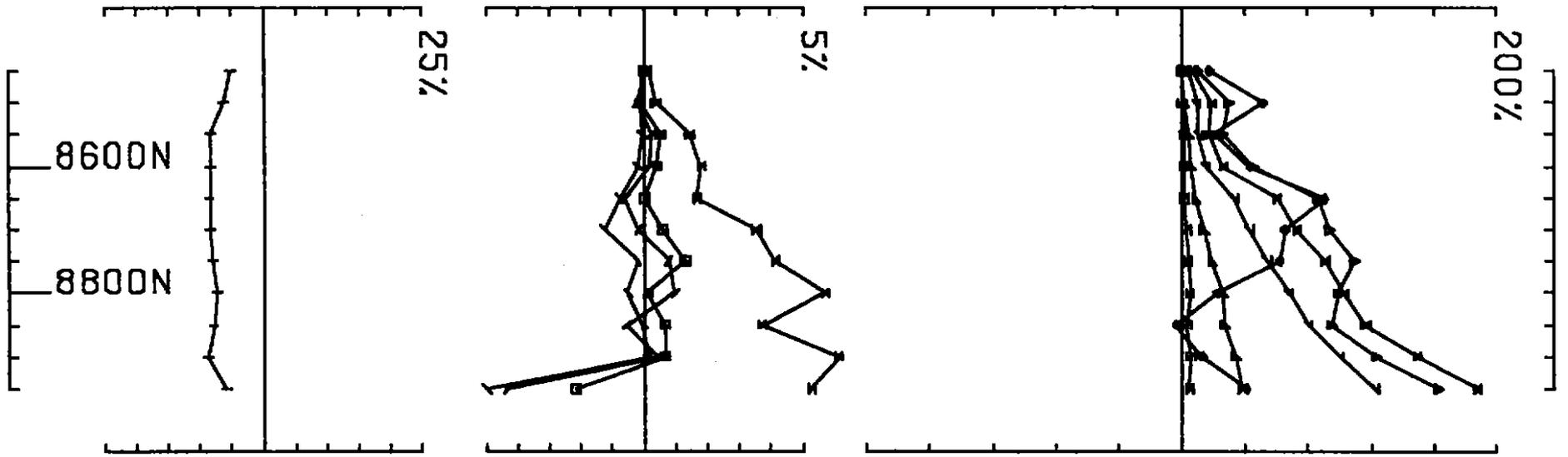
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3200 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003067



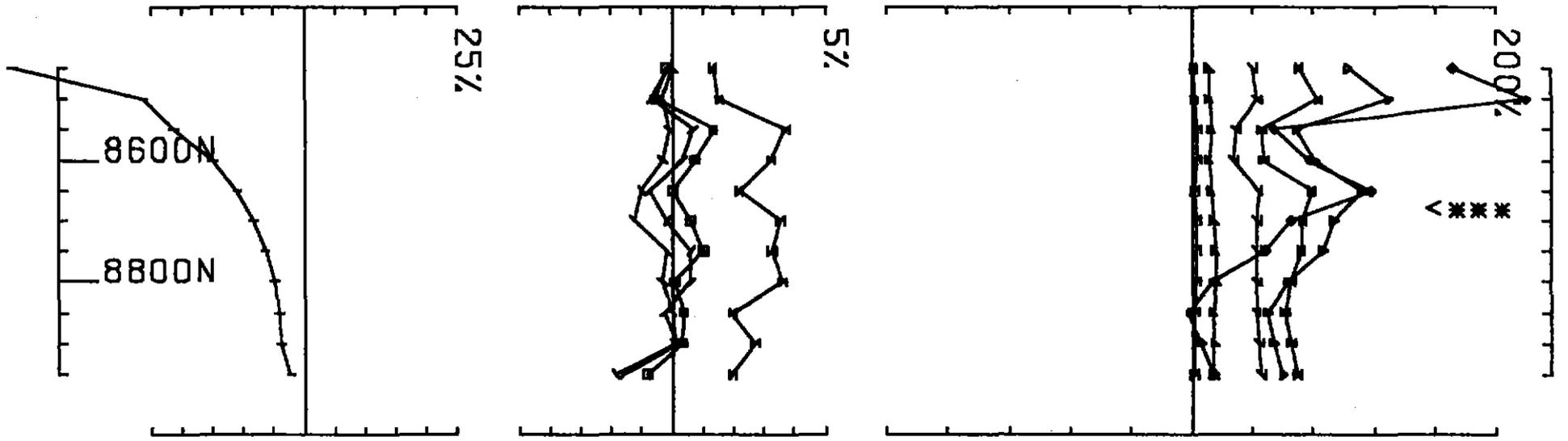
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3200 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003068



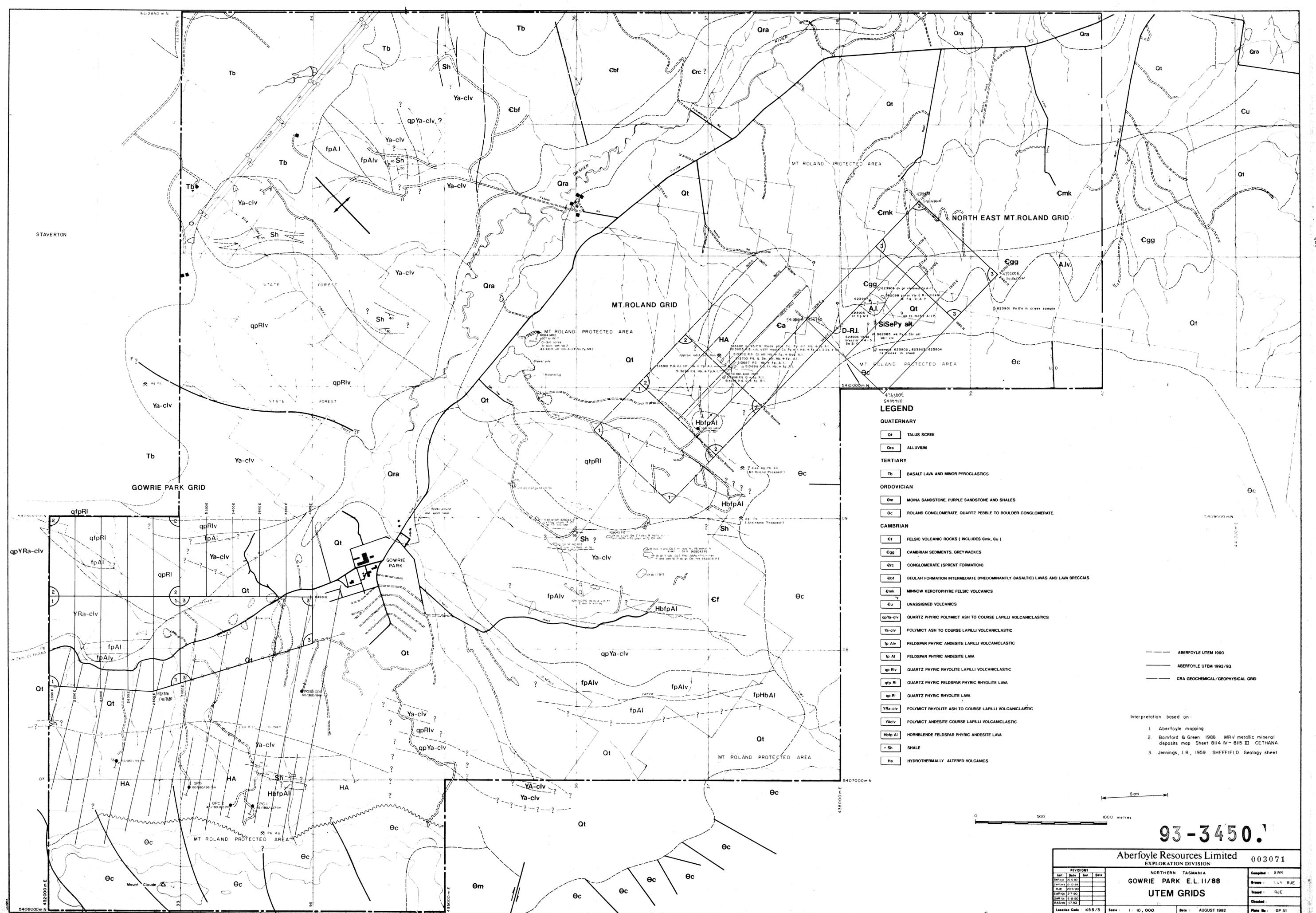
UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3000 E COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

003069



UTEM SURVEY AT GOWRIE PARK FOR ABERFOYLE RESOURCES JUNE 1993
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 26.23
 LOOP NO 3 LINE 3000 E COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

003070



LEGEND

QUATERNARY

- Qt TALUS SCREE
- Ora ALLUVIUM

TERTIARY

- Tb BASALT LAVA AND MINOR PYROCLASTICS

ORDOVICIAN

- Om MOINA SANDSTONE, PURPLE SANDSTONE AND SHALES
- Ec ROLAND CONGLOMERATE, QUARTZ PEBBLE TO BOULDER CONGLOMERATE.

CAMBRIAN

- cf FELSIC VOLCANIC ROCKS (INCLUDES Cmk, Cu)
- Cgg CAMBRIAN SEDIMENTS, GREYWACKES
- erc CONGLOMERATE (SPRENT FORMATION)
- Cbf BELLAH FORMATION INTERMEDIATE (PREDOMINANTLY BASALTIC) LAVAS AND LAVA BRECCIAS
- Cmk MINNOW KEROTOPHYRE FELSIC VOLCANICS
- Cu UNASSIGNED VOLCANICS
- qpYa-clv QUARTZ PHYRIC POLYMICT ASH TO COURSE LAPILLI VOLCANCLASTICS
- Ya-clv POLYMICT ASH TO COURSE LAPILLI VOLCANCLASTIC
- fpAlv FELDSPAR PHYRIC ANDESITE LAPILLI VOLCANCLASTIC
- fpAl FELDSPAR PHYRIC ANDESITE LAVA
- qpRlv QUARTZ PHYRIC RHYOLITE LAPILLI VOLCANCLASTIC
- qfpRl QUARTZ PHYRIC FELDSPAR PHYRIC RHYOLITE LAVA
- qpRl QUARTZ PHYRIC RHYOLITE LAVA
- YRa-clv POLYMICT RHYOLITE ASH TO COURSE LAPILLI VOLCANCLASTIC
- Yaclv POLYMICT ANDESITE COURSE LAPILLI VOLCANCLASTIC
- HbfpAl HORNBLENDE FELDSPAR PHYRIC ANDESITE LAVA
- Sh SHALE
- Ha HYDROTHERMALLY ALTERED VOLCANICS

- Interpretation based on:
1. Aberfoyle mapping
 2. Bamford & Green 1988 MRV metallic mineral deposits map Sheet 814 IV - 815 III CETHANA
 3. Jennings, I.B., 1959. SHEFFIELD Geology sheet



93-3450.

Aberfoyle Resources Limited 003071
EXPLORATION DIVISION

NORTHERN TASMANIA
GOWRIE PARK E.L.11/88
UTEM GRIDS

REVISIONS			
Rev	Date	By	Date

Compiled:	SWR
Drawn:	SWR, RJE
Traced:	RJE
Checked:	
Location Code:	K55/3
Scale:	1:10,000
Date:	AUGUST 1992
Plate No.:	GP 51



Index to Sheets

A	B	C
---	---	---

- Interpretation based on:
1. Aberfoyle mapping
 2. Bamford & Green 1968 MRV metallic mineral deposits map Sheet B114 IV-815 III CETHANA
 3. Jennings, I.B., 1959. SHEFFIELD Geology sheet
- (see Plate GP51 for Legend)



93-3450.

Aberfoyle Resources Limited EXPLORATION DIVISION		003072																								
NORTHWEST TASMANIA GOWRIE PARK E.L. 11/88 INTERPRETIVE GEOLOGY																										
REVISIONS <table border="1"> <tr> <th>Instr.</th> <th>Date</th> <th>Instr.</th> <th>Date</th> </tr> <tr> <td>1</td> <td>20/09/88</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>10/10/88</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>20/06/90</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>12/07/93</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>05/08/90</td> <td></td> <td></td> </tr> </table>	Instr.	Date	Instr.	Date	1	20/09/88			2	10/10/88			3	20/06/90			4	12/07/93			5	05/08/90			Compiled: SWR Drawn: SWR, RJE Traced: RJE Checked:	Location Code: K55/3 Scale: 1:10,000 Date: April, 1990 Plate No.: GP 43
Instr.	Date	Instr.	Date																							
1	20/09/88																									
2	10/10/88																									
3	20/06/90																									
4	12/07/93																									
5	05/08/90																									