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Aberfoyle Resources Limited
EXPLORATION DIVISION

LAKE MARGARET EL 5/85

TASMANIA

Technical Progress Report

for the period

October 1990 - September 1991

TCR 91-3308

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28 OCT 1991	
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91-3308.

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GEOLOGIST

Endorsed by:

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REGIONAL MANAGER

NOTED

Distribution

- Aberfoyle - Burnie (1)
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PLATES

Plate No:	Scale:	Title:
L.MARG. 39	1:200	Newton Dam Spillway Geology
L.MARG. 41	1:1000	North Selina Block - 1991 UTEM Locations
L.MARG. 43	-	DDH RH-19 - Geochemcial Profiles

FIGURES

1. EL 5/85 Lake Margaret - Location Plan

APPENDICES

1. DDH RH-19 Core Grind Geochemistry - Assay Results
2. North Selina Area - Surface UTEM Survey Results
3. East Mt Sedgewick Area - DDH 88MS-1 DHEM Survey Results
4. Newton Creek Dam Spillway - Rock Chip Geochemistry Results
5. Newton Creek Dam Spillway - Lead Isotope Analyses

1. SUMMARY

Exploration during the current reporting period concentrated on the North Selina prospect. A three loop 21 line km UTEM survey was conducted over altered and mineralised Tyndall Group rocks. The only significant conductor was detected as an off-end effect, in Cambrian Sticht Range Beds, about 200m east of the licence boundary.

In the East Mount Sedgewick area a three loop downhole EM survey of CRA Exploration drill hole 88 MS-1 failed to detect any significant conductive body.

The prospectivity of the Central Volcanic Complex in the western part of EL 5/85 has been enhanced considerably. The discovery of several high grade base metal sulphide boulders in andesitic epiclastic breccias, exposed in the Newton Creek Dam spillway, indicate the potential for a nearby volcanogenic massive sulphide deposit.

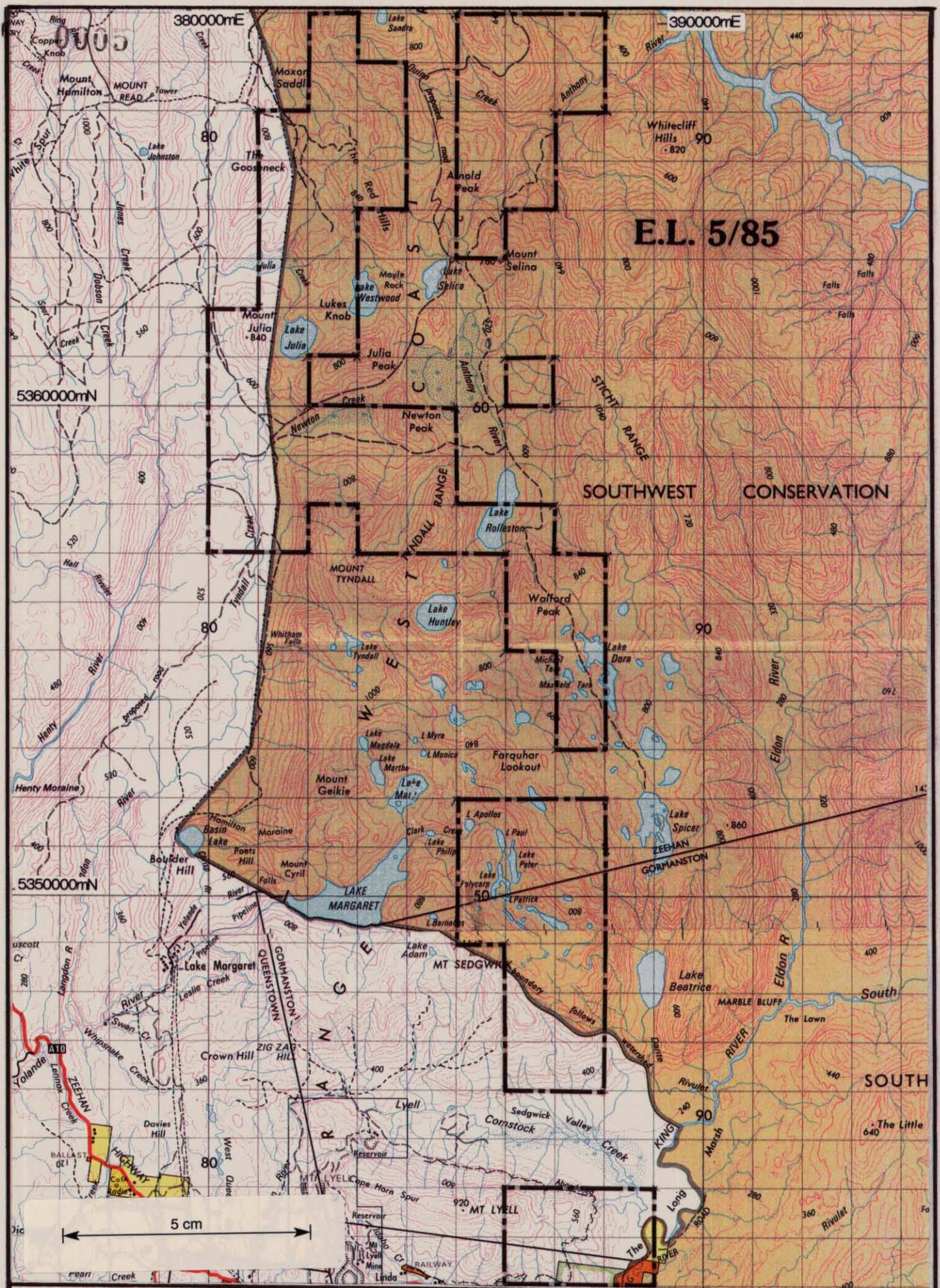
2. INTRODUCTION

The Lake Margaret EL 5/85 covers an area of 73 sq. km., to the north and east of Queenstown, from south of Mount Sedgewick to the south of Mount Murchison (Figure 1).

The exploration licence was granted to CRA Exploration Pty Ltd on the 20 October, 1985. Since the 28 April 1988 exploration has been conducted by Aberfoyle Resources Limited under the terms of the Mount Read Volcanics joint venture with CRA Exploration Pty Ltd.

In October 1990 the licence was reduced to its current size by the relinquishment of 72 sq. km. in accordance with statutory requirements.

This report records exploration on EL 5/85 for the period October 1990 to September 1991.



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Aberfoyle Resources Limited
EXPLORATION DIVISION

Figure 1.

LAKE MARGARET E.L. 5/85 LOCALITY MAP

Drawn : JLR

Location Code :

Scale : 1:100 000

Date : September 1991

Plate No. : LMARG 13

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3. RED HILLS PROSPECT

3.1 Previous Exploration

The Red Hills area has a long history of mineral exploration which is summarised in McNeill, 1989. Work by Aberfoyle during the period August 1988 to October 1990 is described in McNeill, 1989 and Noonan, 1990. This comprised a two loop 12.6 line km. UTEM survey of the Red Hills East prospect and a four loop 14.3 line km. UTEM survey of the Red Hills prospect.

Only one anomaly was detected. This occurred at the Red Hills prospect over a strike length of 2.2 km. The northern portion of the anomaly was interpreted to be due to the Red Hills shale horizon but the southern steeply plunging portion may have been due to both the shale horizon and an adjacent conductive body. The southern portion of the anomaly had not been tested by drilling.

DDH RH-18 was designed to test this anomaly on section 84S. A conductive black shale body was intersected by this hole but a second flat lying conductor was interpreted to lie below and to the west of RH-18.

DDH RH-19 was targetted at this second conductor but only intersected a shallowly dipping conductive shale horizon at the target position.

The results of DDH RH-18 and 19 were reported in detail in Noonan, 1990. However, core grind geochemistry for RH-19 was not available at that time. This is discussed below.

3.2 Geochemistry

25 core grind samples from DDH RH-19 were submitted for assay. Sample intervals of 10m or corresponding to lithological boundaries were used. Samples were assayed for Cu, Pb, Zn, Ag and Au. Results are attached as Appendix 1 and Plate L.MARG 43.

Assay results are generally low with maximum values of 400 ppm Pb and 710 ppm Zn (separate samples) from the conductive shale rich sequence between 188.25 and 206.25m. Copper values are uniformly low with a maximum of 75 ppm. All silver and gold assays are below the detection limits of 0.5 ppm and 0.008 ppm respectively.

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4. NORTH SELINA AREA

4.1 Previous Exploration

The North Selina area is located between Mount Selina and the northern boundary of the exploration licence. It comprises the northernmost part of the large Selina hydrothermal system. This area was explored by Mount Lyell and later by Goldfields Exploration between 1969 and 1987; Purvis, 1983, Fitzgerald, 1987. No work was undertaken in the area by CRA Exploration.

Work carried out by Aberfoyle up to October 1990 comprised geological mapping, rock chip and stream sediment geochemistry and lead isotope analysis. The results are reported in Noonan, 1990.

Lead isotope signatures for the North Selina mineralisation are Cambrian but the distinction between volcanogenic and Murchison Granite related mineralisation could not be made. In addition, two areas of base metal anomalous rock chip geochemistry were highlighted within the Tyndall Group.

This work confirmed the prospectivity of Tyndall Group rocks in the North Selina area for volcanogenic massive sulphide mineralisation. As no surface EM data was available a UTEM survey was planned for 1991.

4.2 Geophysics

During January 1991 a three loop 21 line km. UTEM survey was undertaken over the North Selina area. Survey loop and line locations are shown on Plate L.MARG. 41. Survey results are attached as Appendix 2.

No responses attributable to massive sulphide accumulations were detected within Tyndall Group rocks. However, an off-line response to the east is indicative of a strong conductor.

The source has a strike length of at least 1.2 km from 4000N-5200N. It is interpreted to lie about 200m east of the boundary to EL 5/85 with a depth to top on line 5000N of about 250m. This location would place the source within the Cambrian Sticht Range Beds. Outcrop in the interpreted conductor position comprises graphitic phyllites interbedded with siliciclastic conglomerate and siltstone.

Application has been made for an exploration licence over this area but this is currently subject to an objection. It is hoped to conduct a follow up EM survey when this matter is resolved.

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5. EAST MOUNT SEDGEWICK AREA5.1 Previous Exploration

In the East Mount Sedgewick area a thick sequence of Cambro-Ordovician Owen Conglomerate overlies Central Volcanic Complex and Tyndall Group rocks of the Mount Read Volcanics. DDH 88 MS-1 was drilled by CRA Exploration to test a large magnetic anomaly, possibly related to a blind Cambrian hydrothermal system, underlying the Owen Conglomerate. The hole was completed at 650m within the Owen Conglomerate but close to the interpreted base of this unit.

The source of the magnetic anomaly was interpreted to be due to a zone of disseminated magnetite intersected between 454 and 600m. Argillic and carbonate alteration was also encountered. A downhole EM survey of this hole was recommended but not carried out by CRA.

5.2 Geophysics

In February 1991 DDH 88 MS-1 was located and determined to be open to 530m. A three loop down hole EM survey was conducted using Aberfoyle's Zonge GDP-16 system. Loop locations and the results of this survey are presented in Appendix 3.

No significant conductive body was detected.

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6. NEWTON CREEK DAM SPILLWAY

6.1 Geology

During an inspection of the Newton Creek Dam spillway several high grade volcanogenic massive sulphide (VMS) boulders were recorded within a sequence of andesitic volcanoclastics.

The host rocks from part of an east facing sequence of hornblende, pyroxene and feldspar phyric andesite lava, volcanoclastics and intrusives. These are part of the Central Volcanic Complex and outcrop over an area of 7.5 km by 1.5 km in the western part of and to the south of EL 5/85.

A detailed map of the spillway is shown on Plate L.MARG. 39. Steeply dipping andesitic fine to breccia volcanoclastics dominate, with some units containing common rhyolitic and dacitic clasts. About halfway down the spillway several units of laminated pyritic chert to 4m thick are mapped. The massive sulphide boulders are only found overlying (east of) these cherts. Minor feldspar ± hornblende phyric andesite lava and dacitic? volcanoclastic units are also present. Massive sulphide clasts range in size from 3cm to 45cm.

The bulk of the volcanoclastic units within this sequence are inferred mass flow deposits. An unknown VMS deposit which was near the source of, or engulfed by, a submarine debris flow is the source of these massive sulphide clasts. The possibility exists that this VMS deposit may be preserved somewhere within the sequence.

The boundary of EL 5/85 passes through the middle of the spillway.

6.2 Geochemistry

15 rock chip samples were collected from the spillway and analysed for Cu, Pb, Zn, Ag, Ba, As, Cr, Ti and Zr. Sample locations are shown on Plate L.MARG. 39 and assay results are included in Appendix 4.

Base metal assays are uniformly low whilst samples of chert are weakly anomalous in arsenic and silver (1.5 ppm and 60 ppm max. respectively). Ti/Zr ratios are generally in the range 10-19 consistent with an andesitic composition. Minor more felsic units near the base of the spillway have lower values of 7-8.

A single typical VMS clast returned an assay of 0.05% Cu, 31.6% Pb, 23.0% Zn, 264 g/t Ag and 1.02 ppm Au.

6.3 Lead Isotopes

Samples from seven massive sulphide clasts were submitted to the CSIRO Division of Exploration Geoscience for Pb isotope analysis. A final report has not been received but preliminary results are included in Appendix 5.

Isotopic ratios are indicative of Cambrian VMS mineralisation and appear to plot in at least two groups between the Rosebery and Que-Hellyer signatures.

7. REFERENCES

- Fitzgerald, F. G., 1987. EL 9/66 Tyndall Area, Tasmania. Relinquishment Report. Report to the Department of Mines, Tasmania. Goldfields Exploration Pty Ltd. Unpub. Report.
- McNeill, A. W., 1989. Lake Margaret EL 5/85 Tasmania. Technical Progress Report for the period August 1988 to September 1989. Aberfoyle Resources Ltd. Unpub. Report.
- Noonan, D. J., 1990. Lake Margaret EL 5/85 Tasmania. Technical Progress Report for the year ended 20 October, 1990. Aberfoyle Resources Ltd. Unpub. Report.
- Purvis, J. G., Jones, M. T., Fitzgerald, F. G. and Poltock, R. A., 1983. A Geological Review of the Tyndall Exploration Licence 9/66, Western Tasmania. Report to the Department of Mines, Tasmania. Goldfields Exploration Pty Ltd. Unpub. Report.

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APPENDIX 1



ANALABS

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

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A Division of Incharge Inspection & Testing Services Aust PL

Phn: (004) 316 837

14 Thirkell St Coee Tas 7320

Fax: (004) 318 890

ANALYTICAL REPORT No. 100560.60.07496

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

11004

RH-19

DATE RECEIVED

RESULTS REQUIRED

07/11/90

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

21/11/90

1

26

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
564,970/995	CG Prep: 6P018	Cu,Pb,Zn,Ag/5A101
564,970/995	CG	Au,Au(R),Au(S)/66309,Au/RAW,Au/WT

REMARKS

RESULTS

TO

Mr R de Bomford
Aberfoyle Resources Limited
Exploration Division
P O Box 952
Burnie Tas 7320

RESULTS

TO

RESULTS

TO

[Signature]
AUTHORISED OFFICER

ANALABS

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

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.07496

21/11/90

11004

1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au				
1	564970	35	10	60	<0.5	<0.008				
2	564971	5	10	40	<0.5	<0.008				
3	564972	10	10	35	<0.5	<0.008				
4	564973	10	<5	30	<0.5	<0.008				
5	564974	15	<5	35	<0.5	<0.008				
6	564975	10	<5	35	<0.5	<0.008				
7	564976	10	215	490	<0.5	<0.008				
8	564977	15	50	300	<0.5	<0.008				
9	564978	15	90	145	<0.5	<0.008				
10	564979	25	<5	155	<0.5	<0.008				
11	564980	45	10	220	<0.5	<0.008				
12	564981	25	25	155	<0.5	<0.008				
13	564982	15	75	210	<0.5	<0.008				
14	564983	15	5	245	<0.5	<0.008				
15	564984	15	<5	140	<0.5	<0.008				
16	564985	30	20	155	<0.5	<0.008				
17	564986	30	320	255	<0.5	<0.008				
18	564987	35	400	165	<0.5	<0.008				
19	564988	50	325	710	<0.5	<0.008				
20	564989	5	10	50	<0.5	<0.008				
21	564990	55	<5	115	<0.5	<0.008				
22	564991	5	<5	270	<0.5	<0.008				
23	564992	75	<5	115	<0.5	<0.008				
24	564993	110	105	115	<0.5	<0.008				
25	564994	115	115	115	<0.5	<0.008				

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ANALABS

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ANALYTICAL DATA

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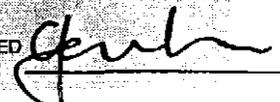
11004

2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au			
1	564995	115	190	2150	<0.5	<0.008			X STD.
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
18									
19									
20									
21									
22									
23	DETECTION	5	5	5	0.5	0.008			
24	UNITS	ppm	ppm	ppm	ppm	ppm			
25	METHOD	GA101	GA101	GA101	GA101	GG309			

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



0017

131018

APPENDIX 2

ABERFOYLE

MEMORANDUM

Date 1 October, 1991

Ref

To D B Wallace

From J Silic

At Burnie

At Hawthorn

Copies to

Keep

Subject

NORTH SELINA UTEM SURVEY

Survey Specifications

A three loop UTEM survey (Plate L.MARG. 41) was executed over the North Selina grid.

The data was collected at 50 metre station spacing, on lines spaced at 200 metres.

Only the vertical component of the magnetic field was measured and derivative techniques developed by Aberfoyle Resources were used to interpret the data.

Discussion of the Results

A number of responses attributable to broad conductive outcropping sources is evident in the data. However an off line conductor on lines 4000-5400N (Loop 3) is effecting the EM response. However, only on line 5000N, can a quantitative interpretation be made, which suggests that the conductive source is at a depth of about 250 metres and has not been crossed by other lines.

J. Silic

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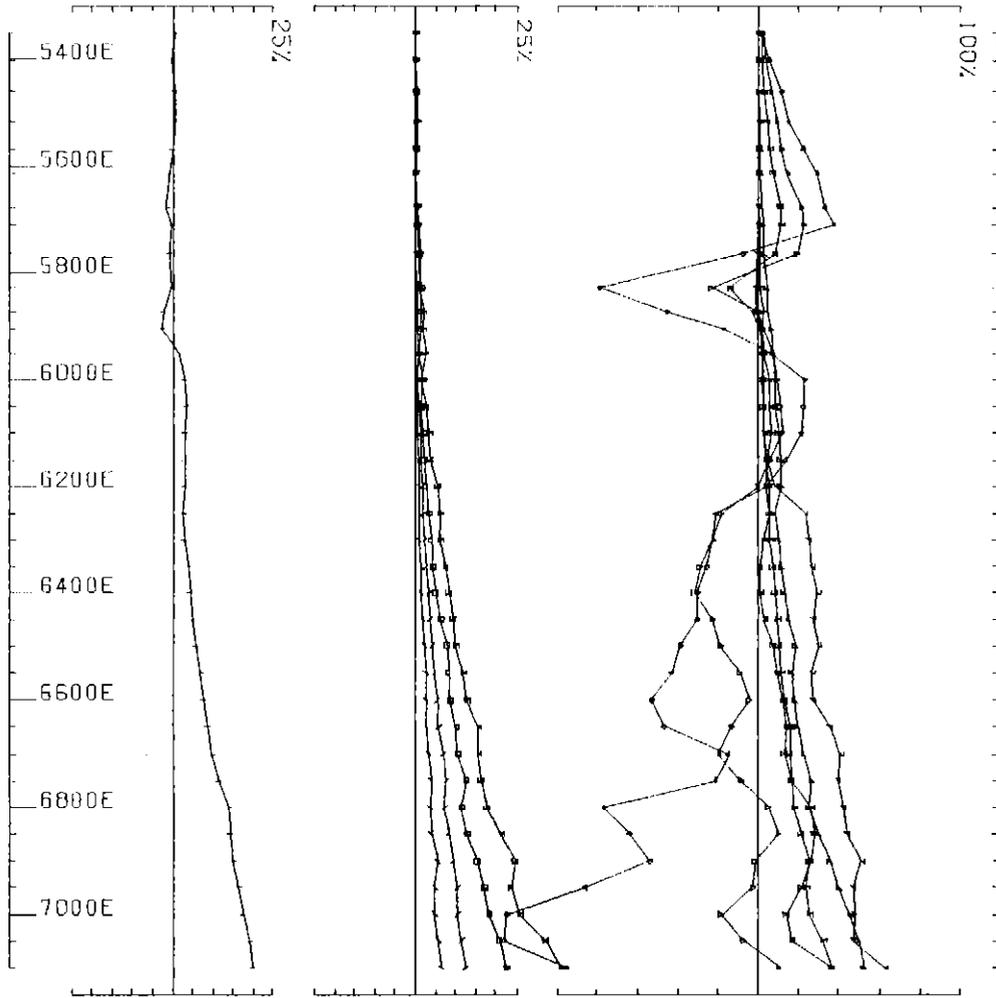
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NORTH SELINA

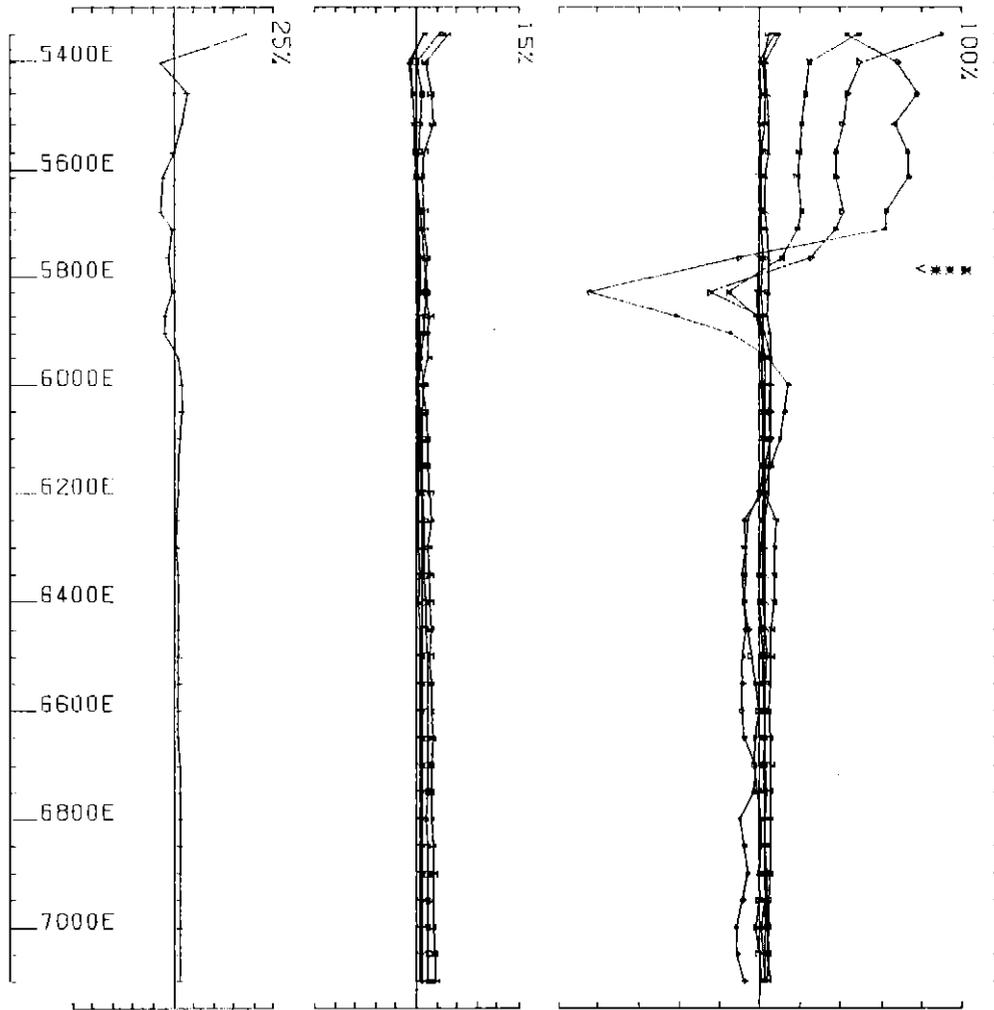
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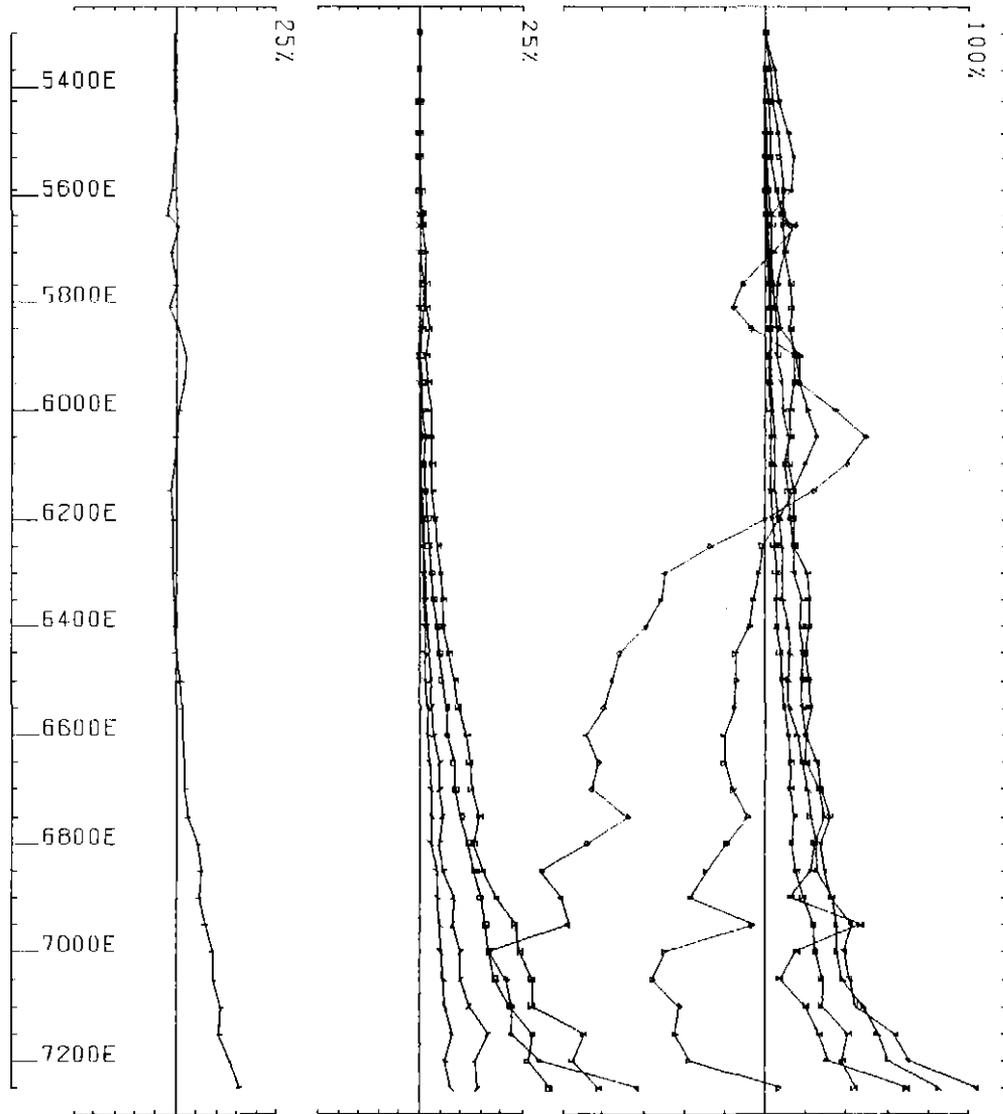
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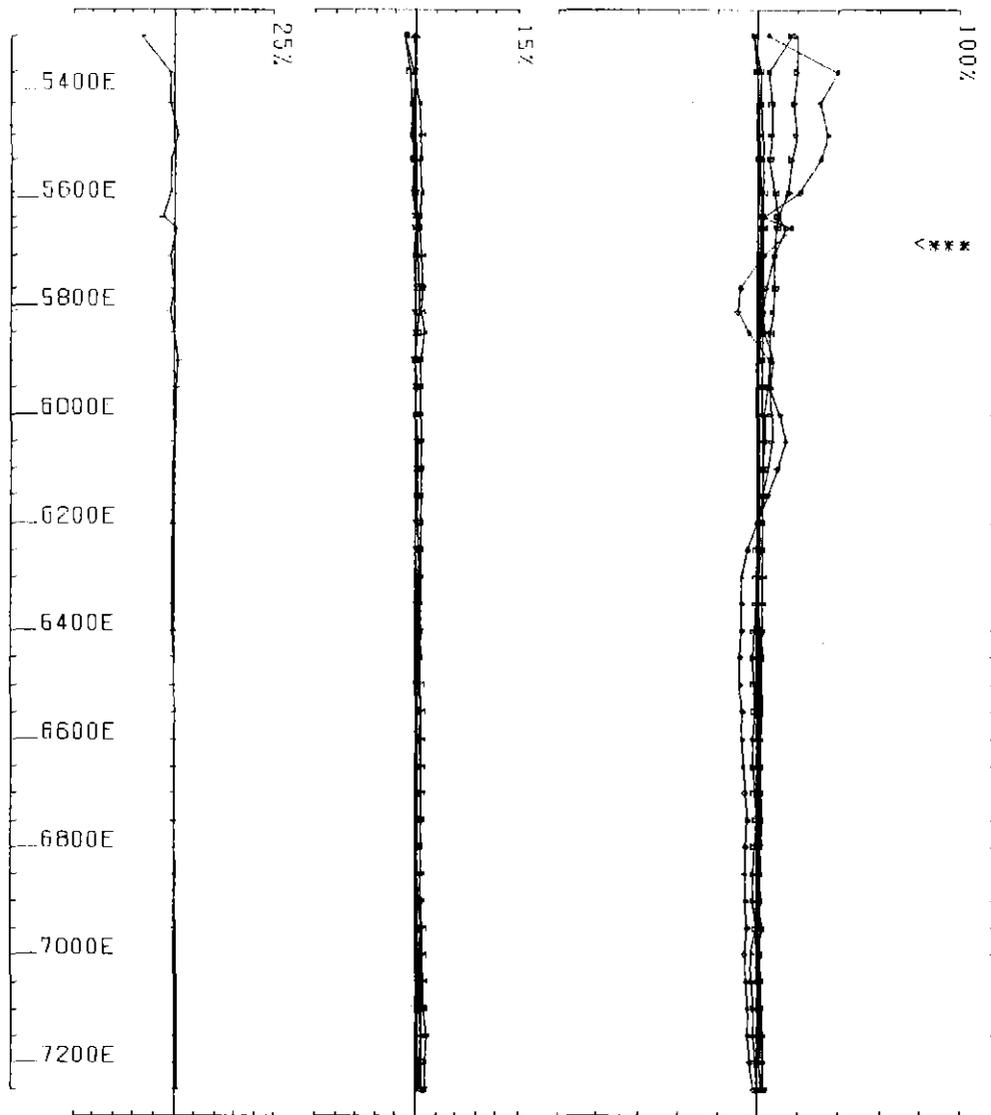
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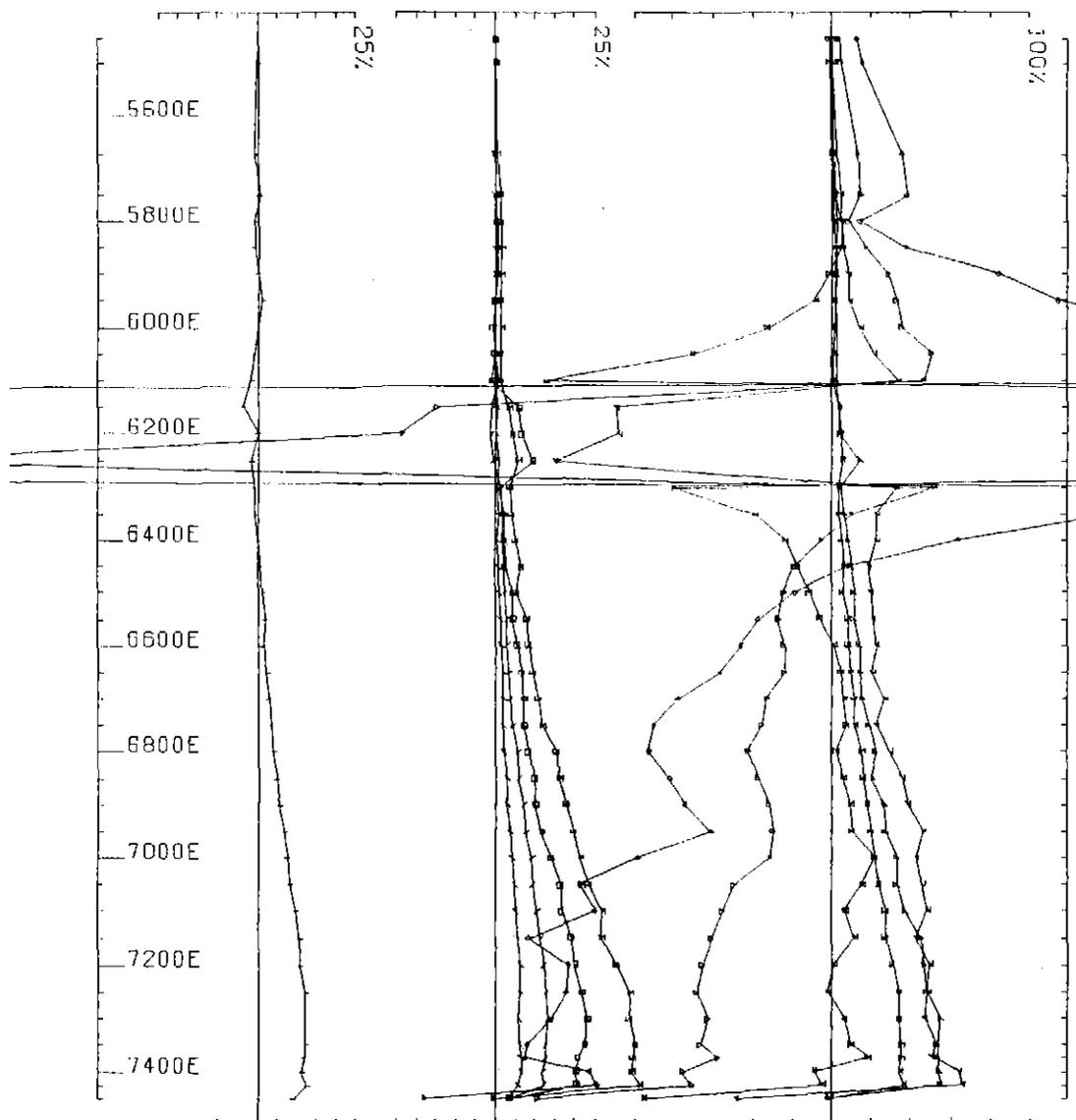
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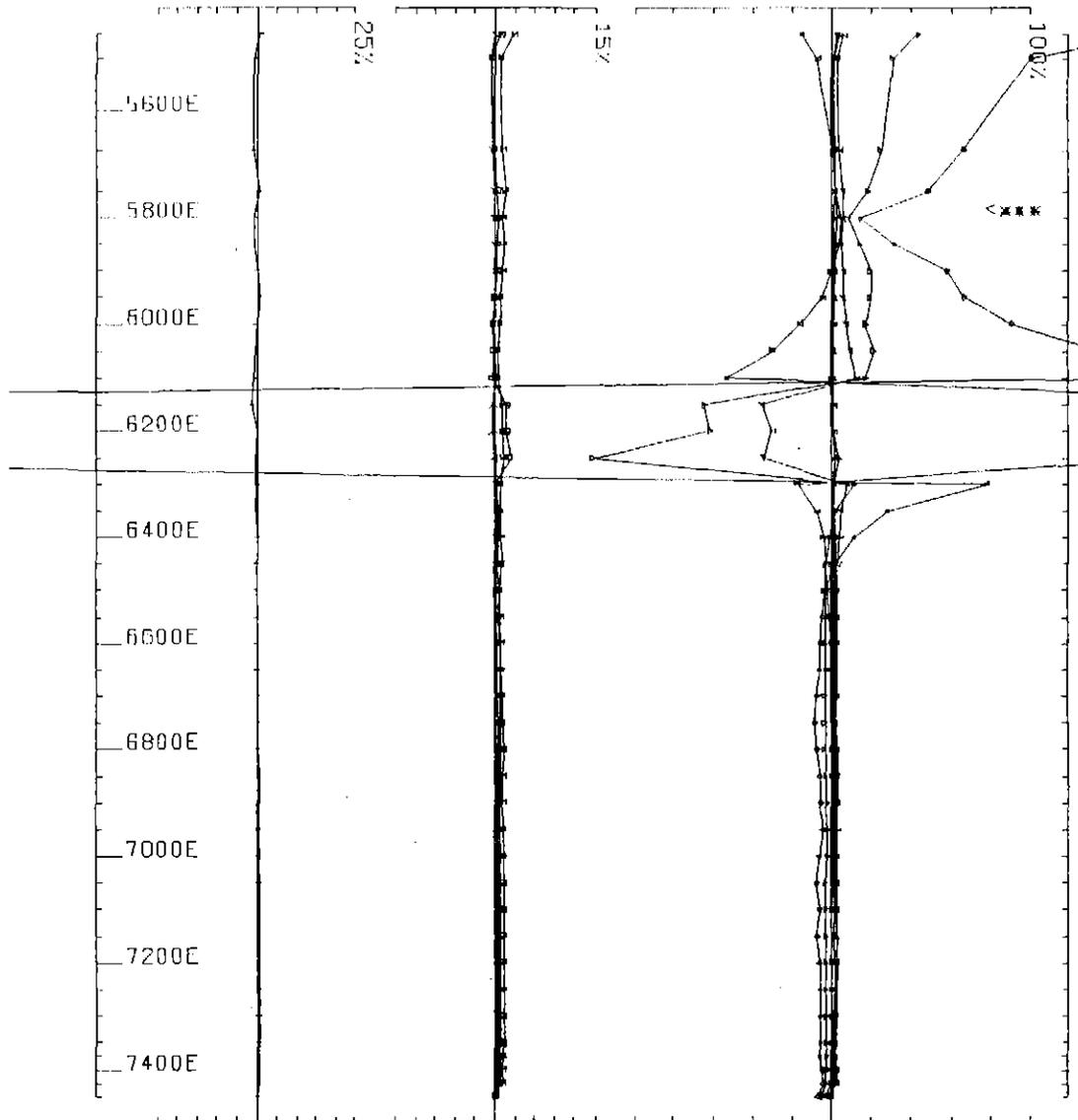
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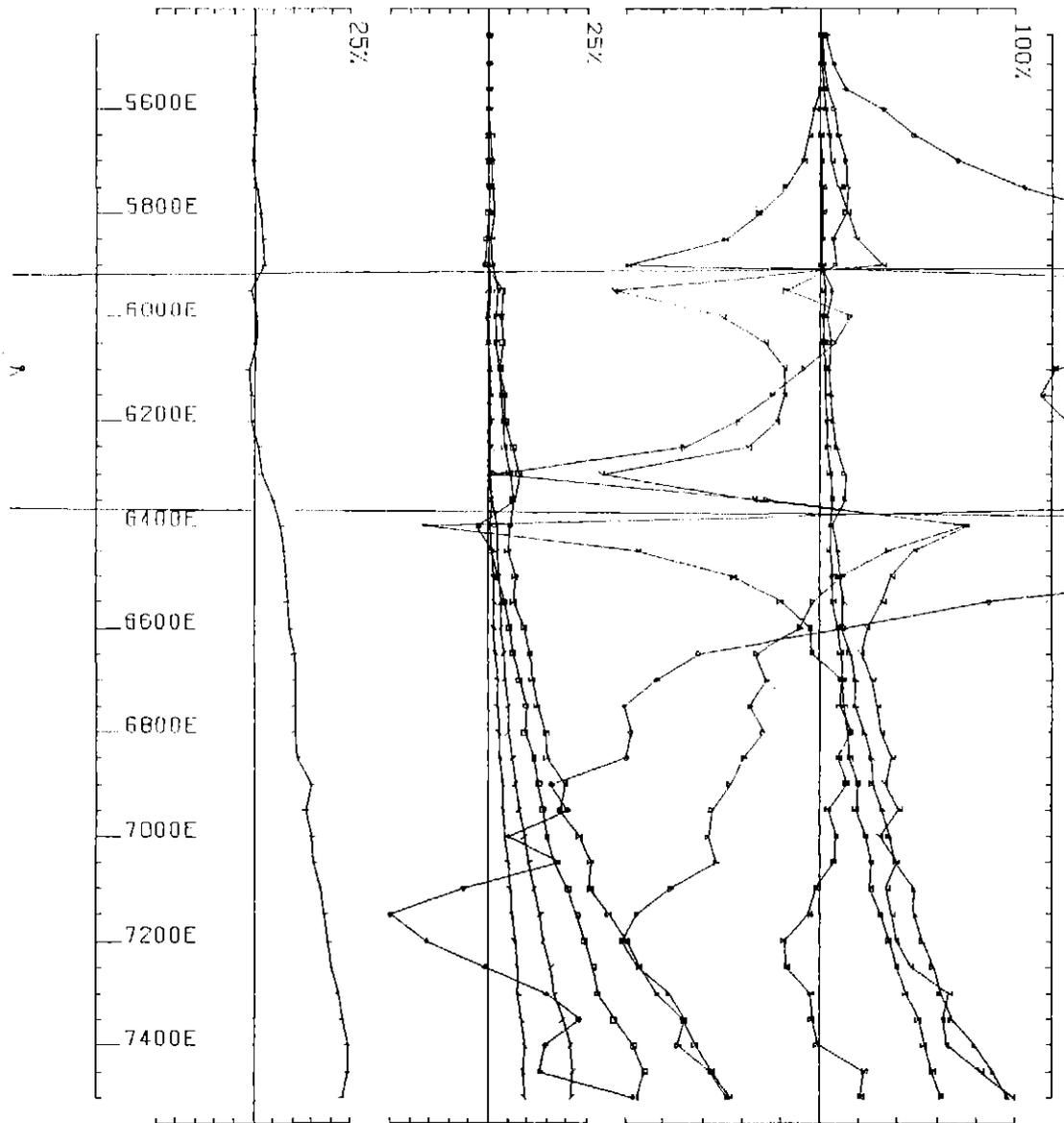
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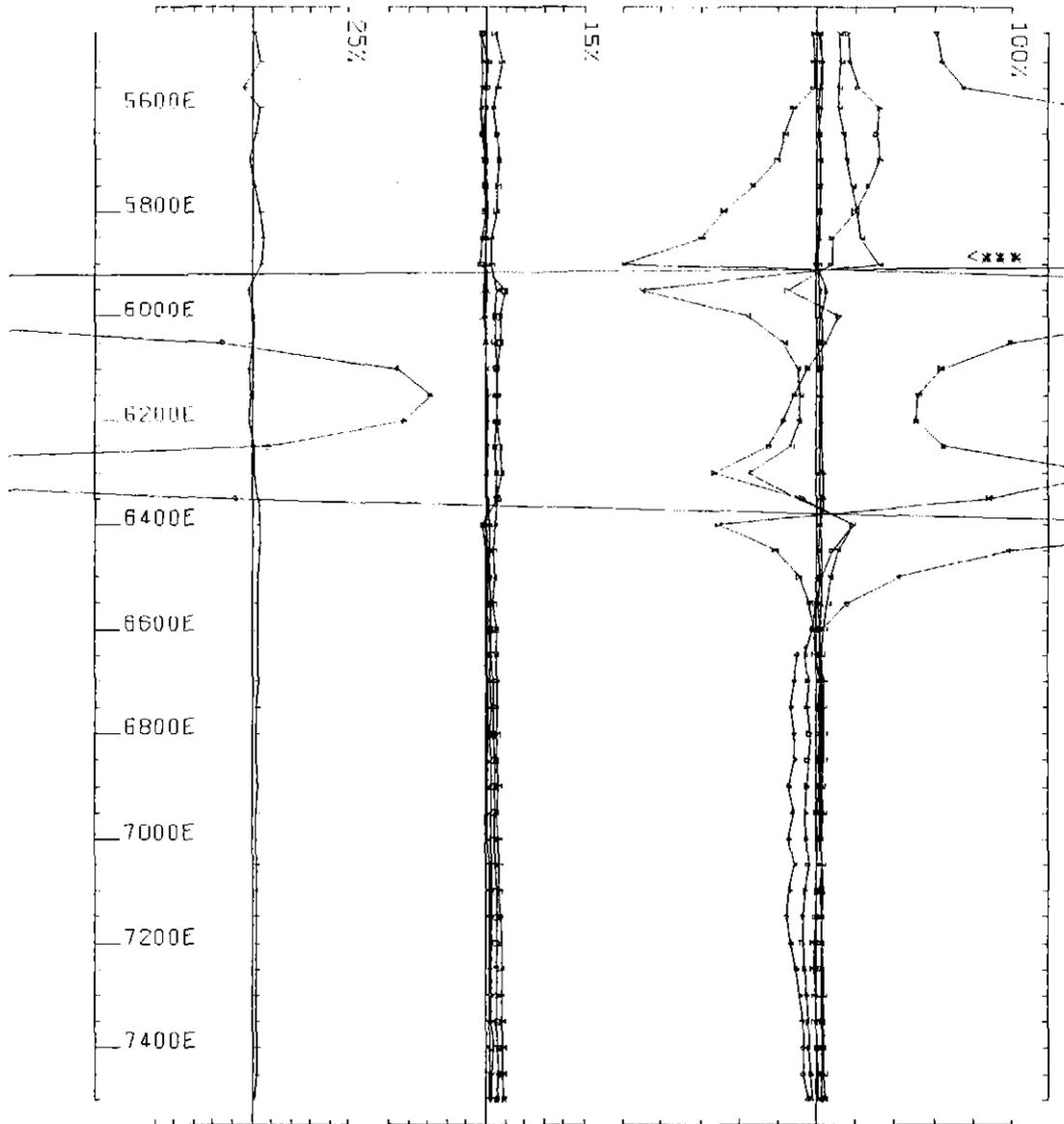
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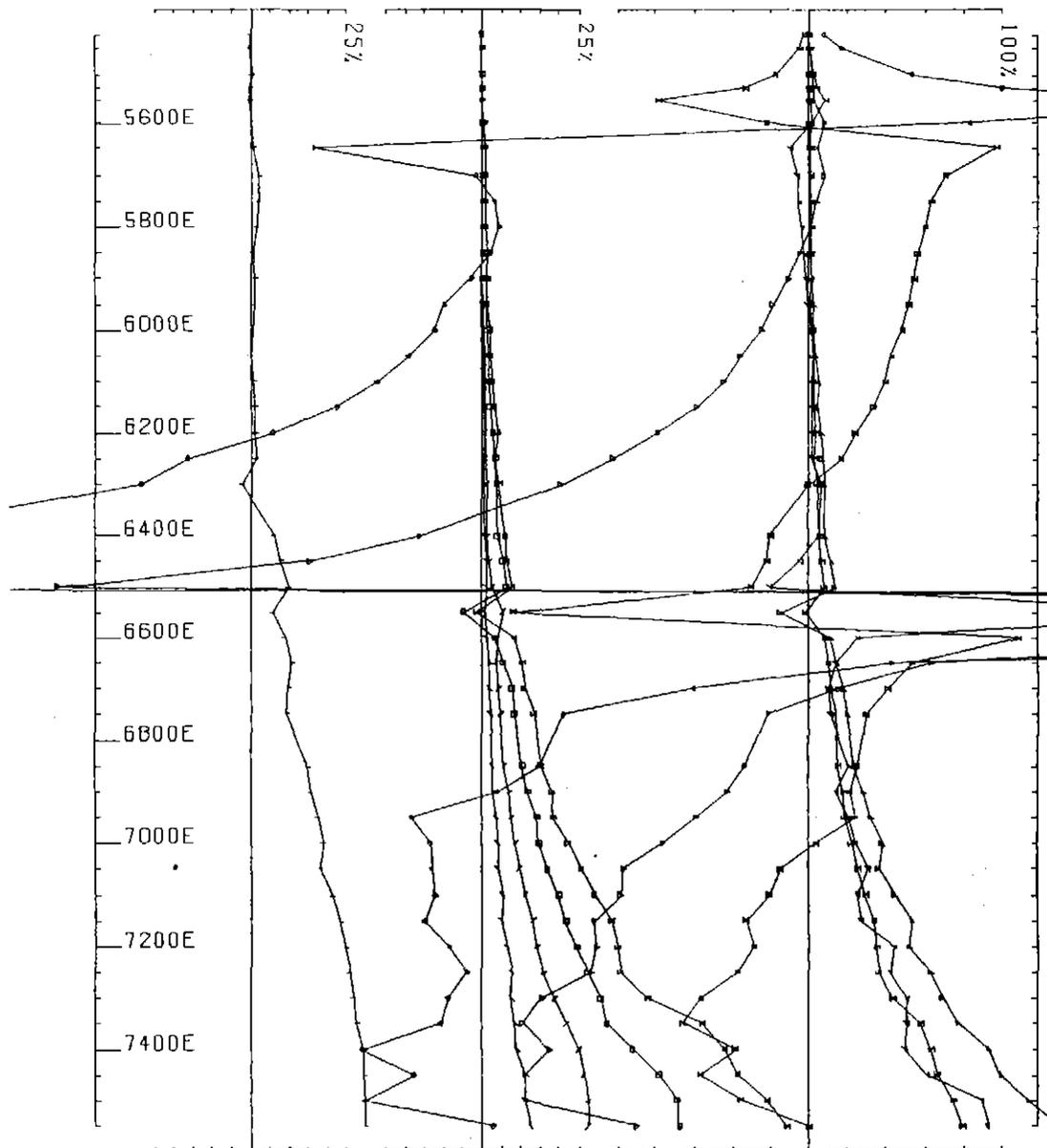
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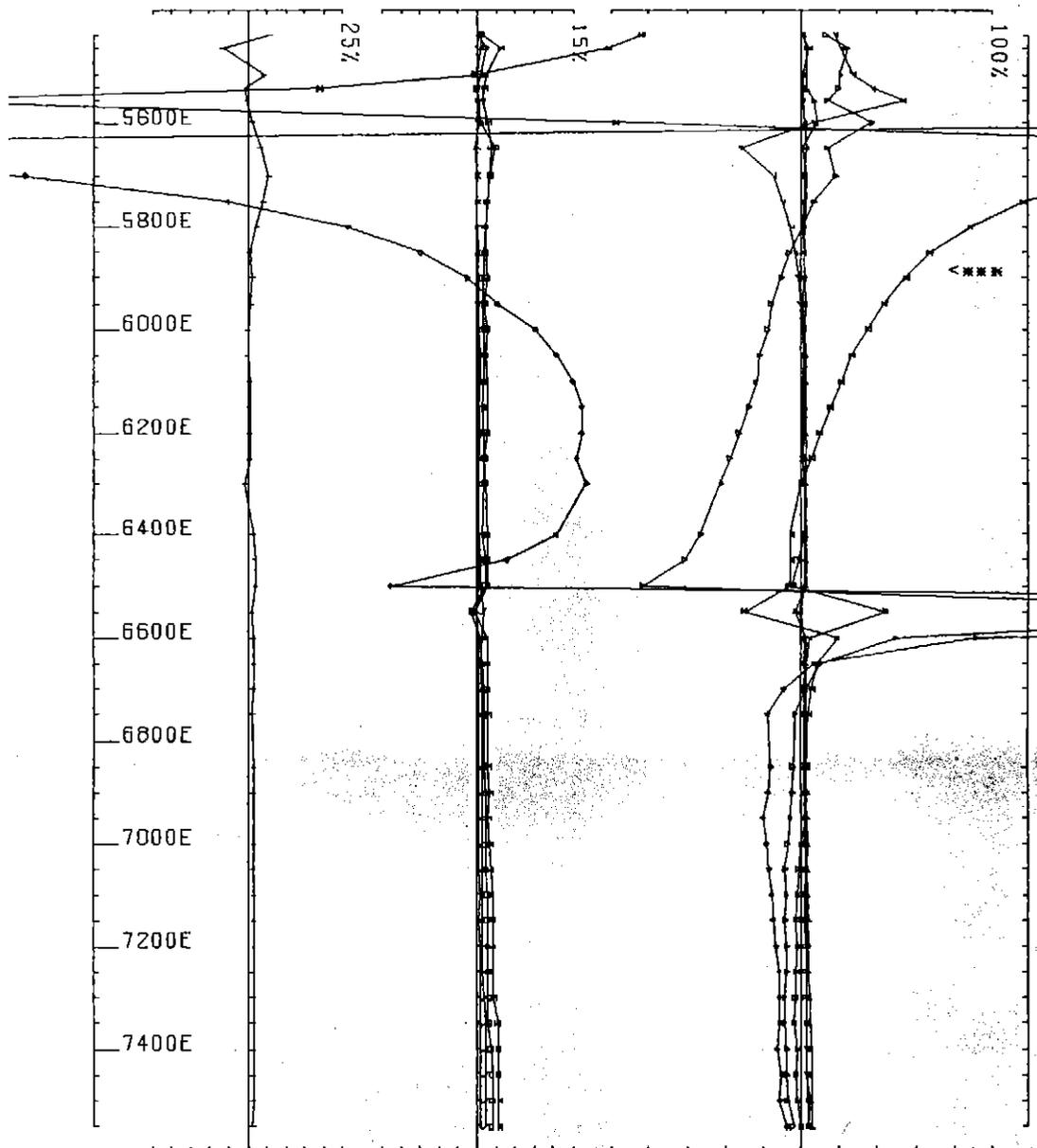
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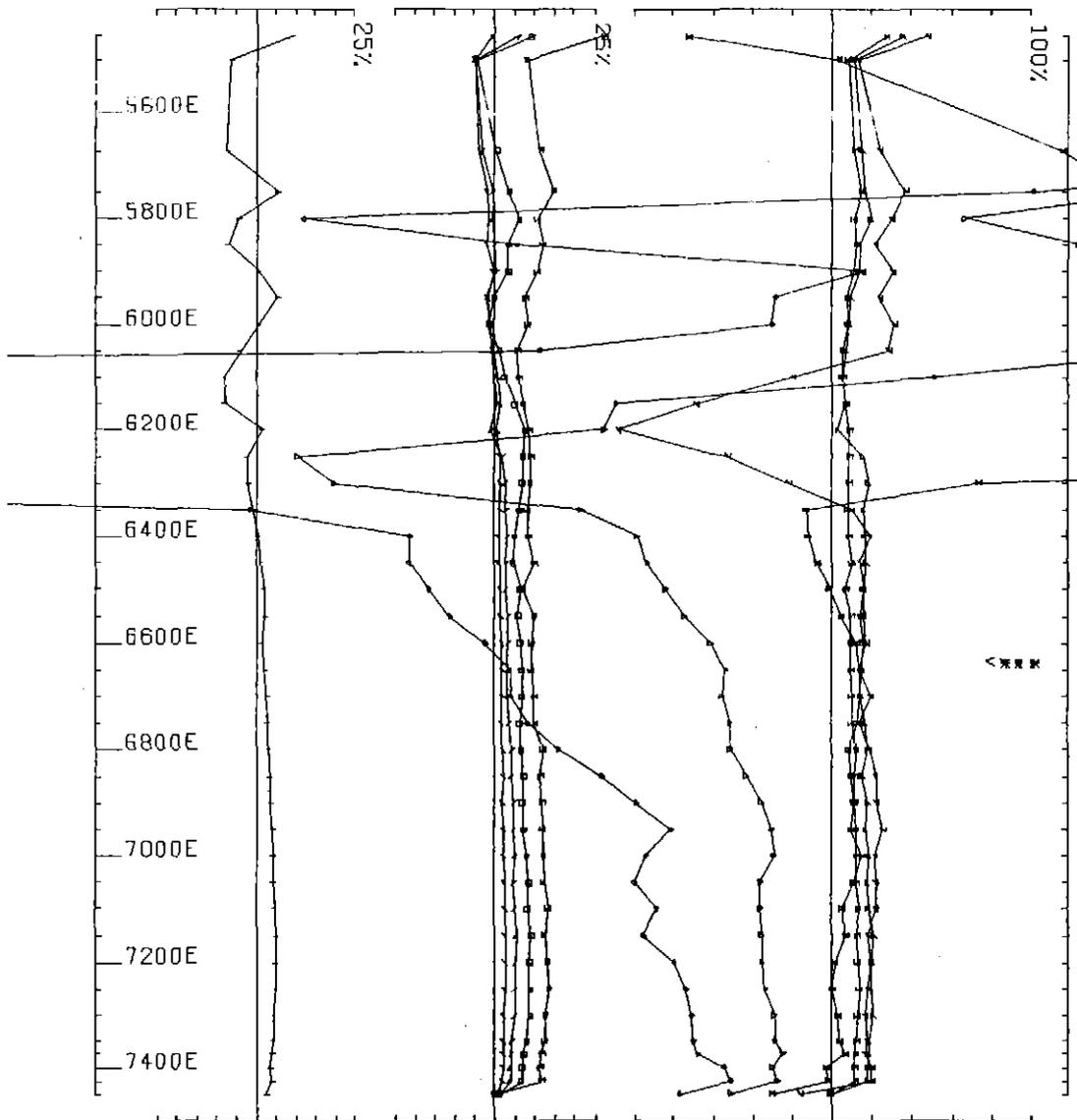
NORTH SELINA

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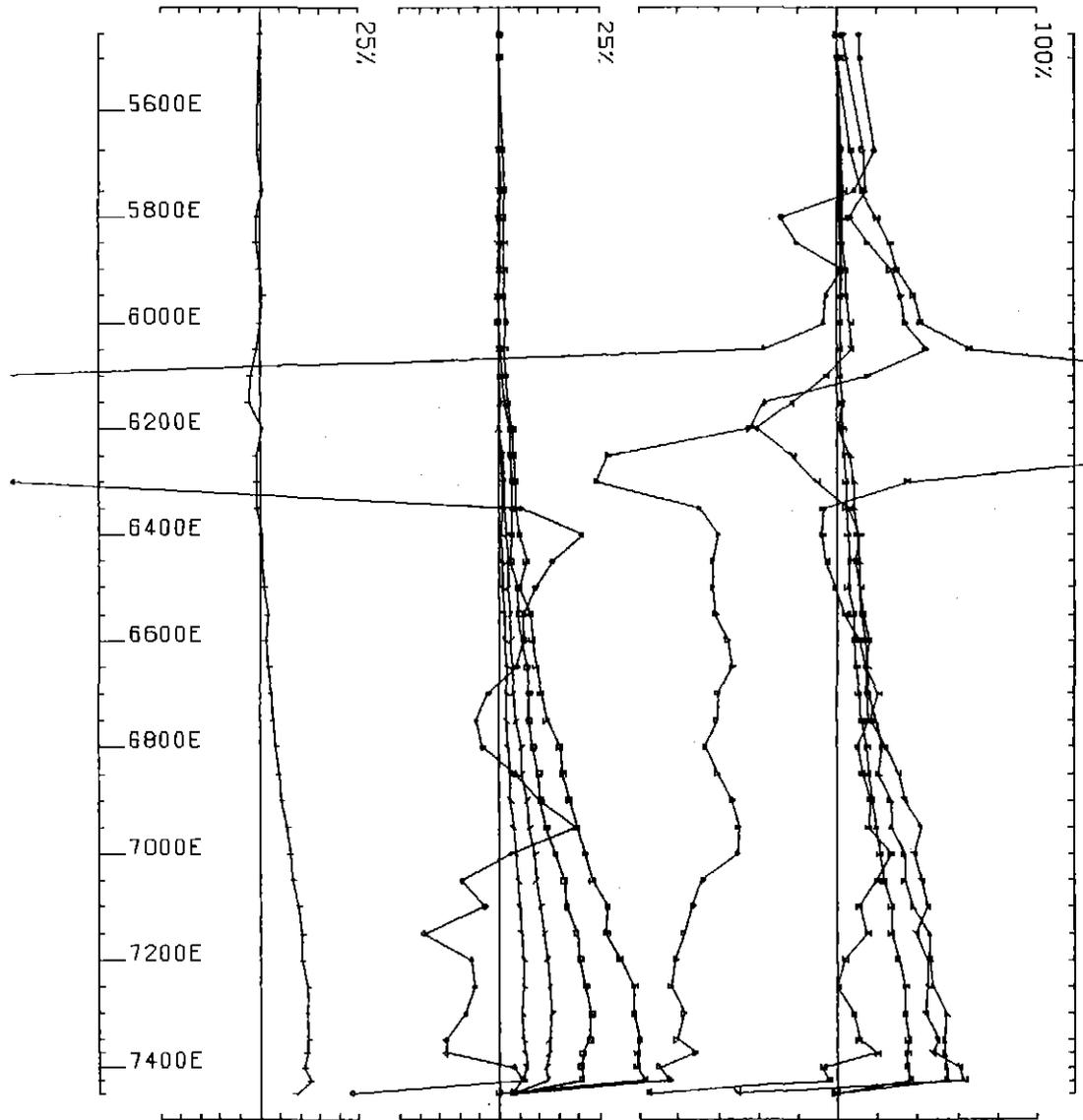
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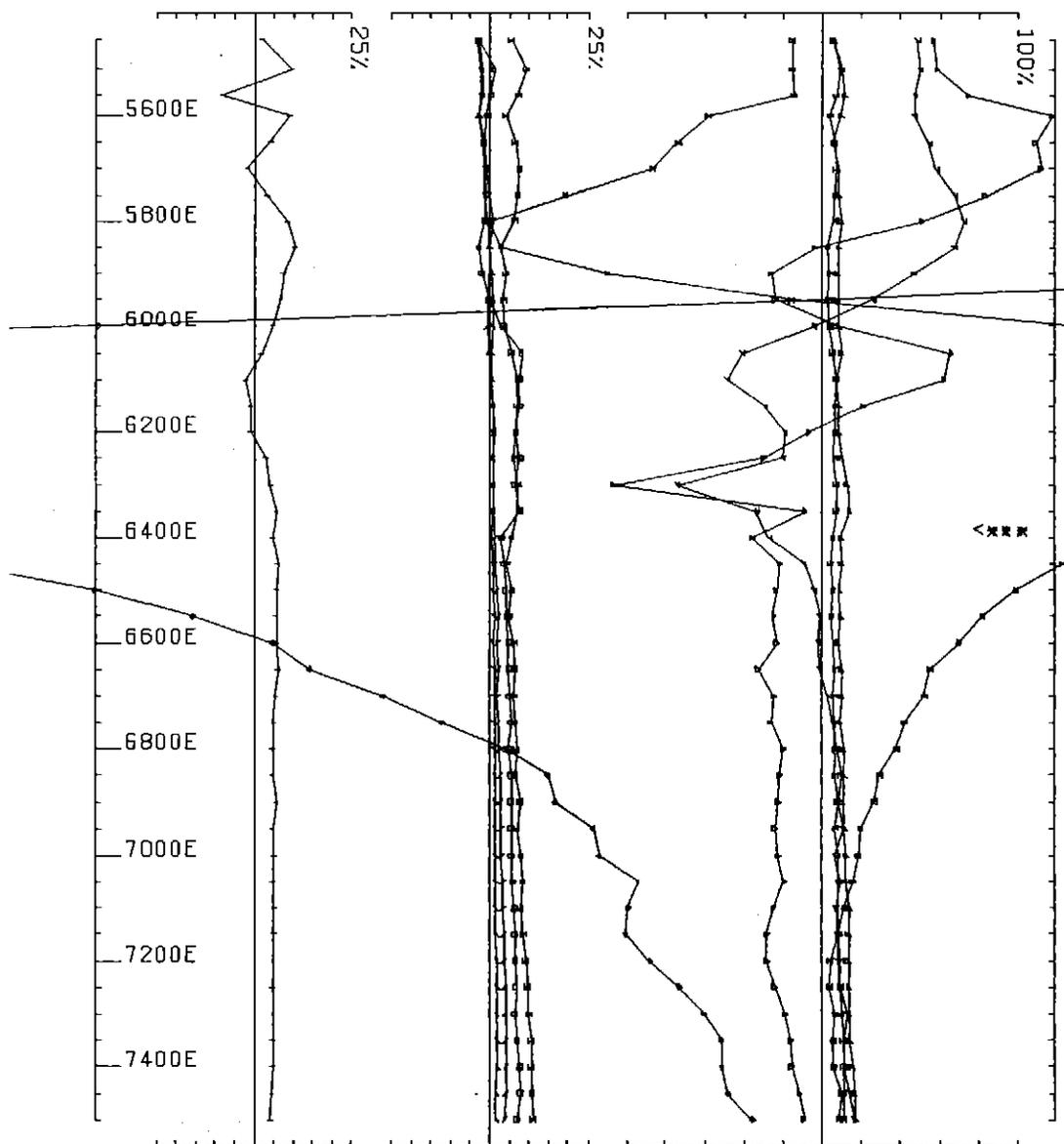
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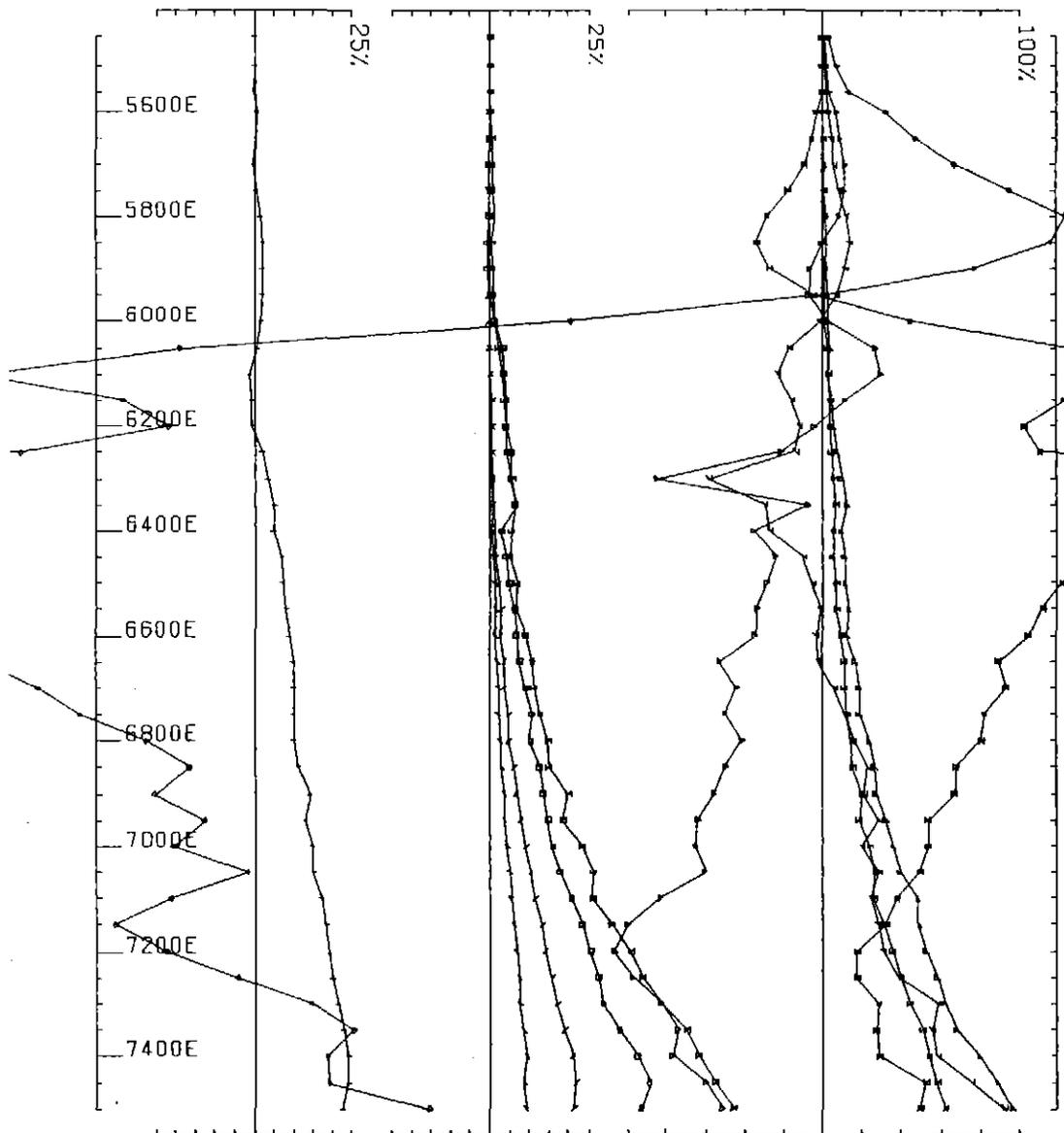
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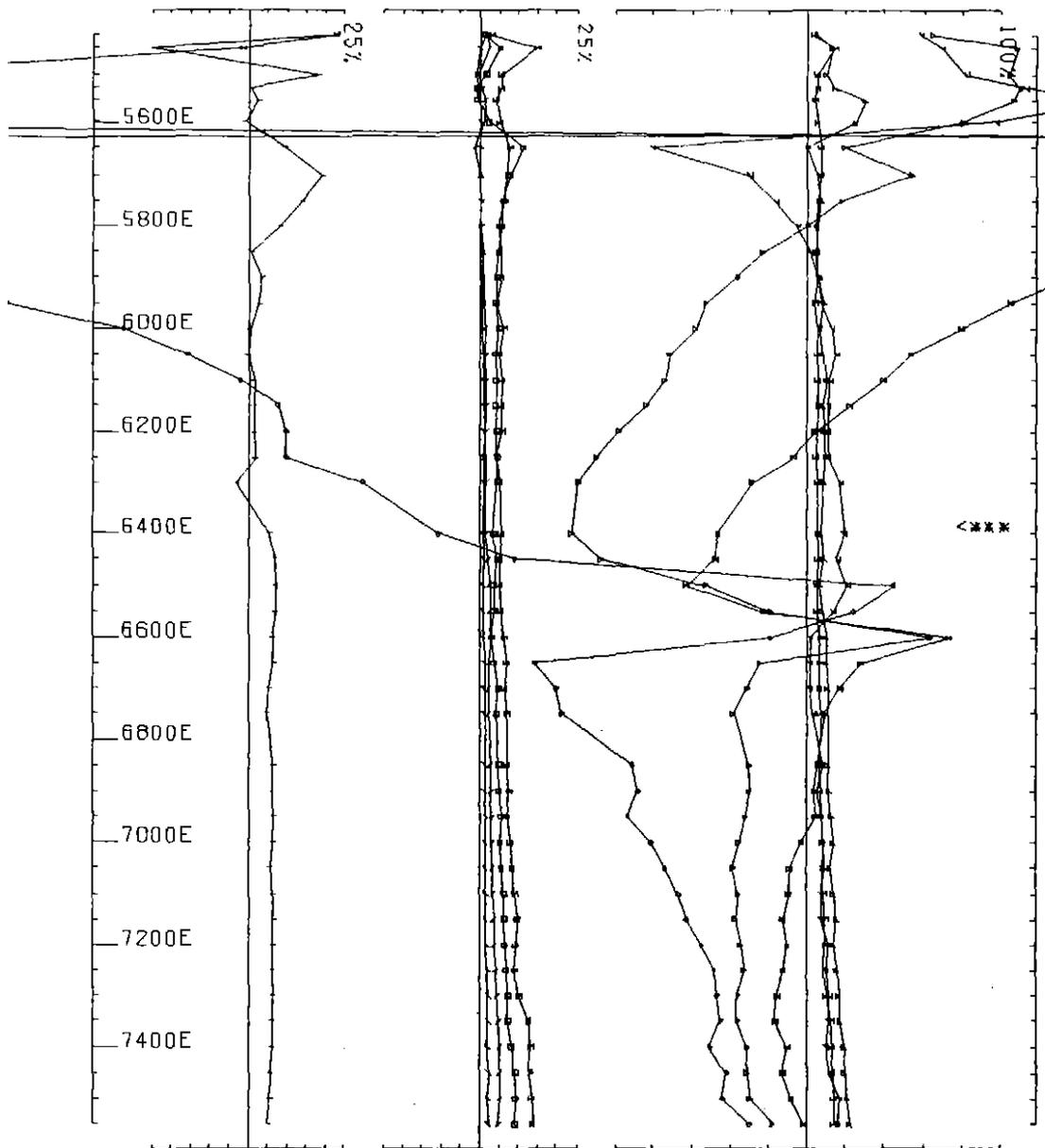
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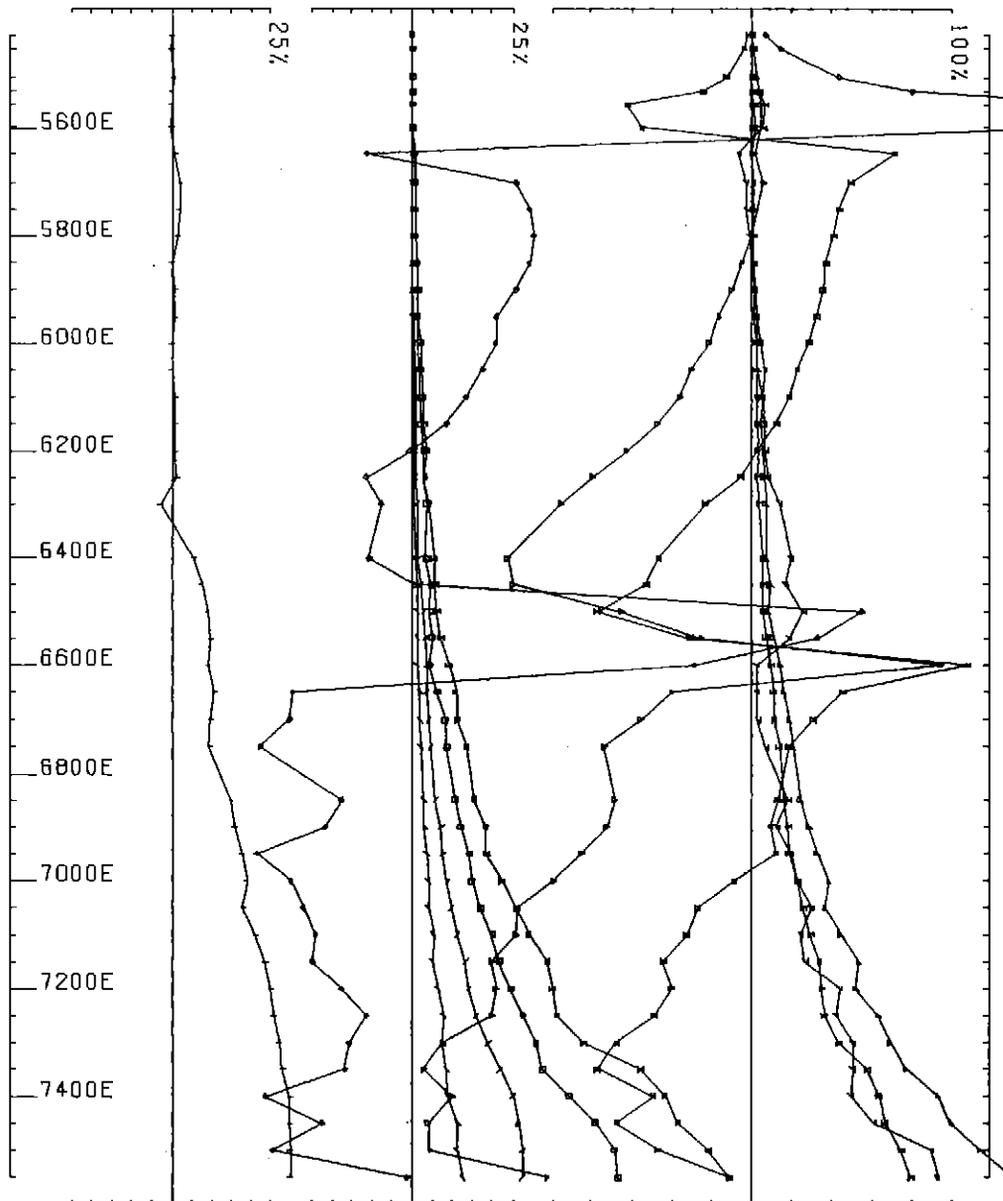
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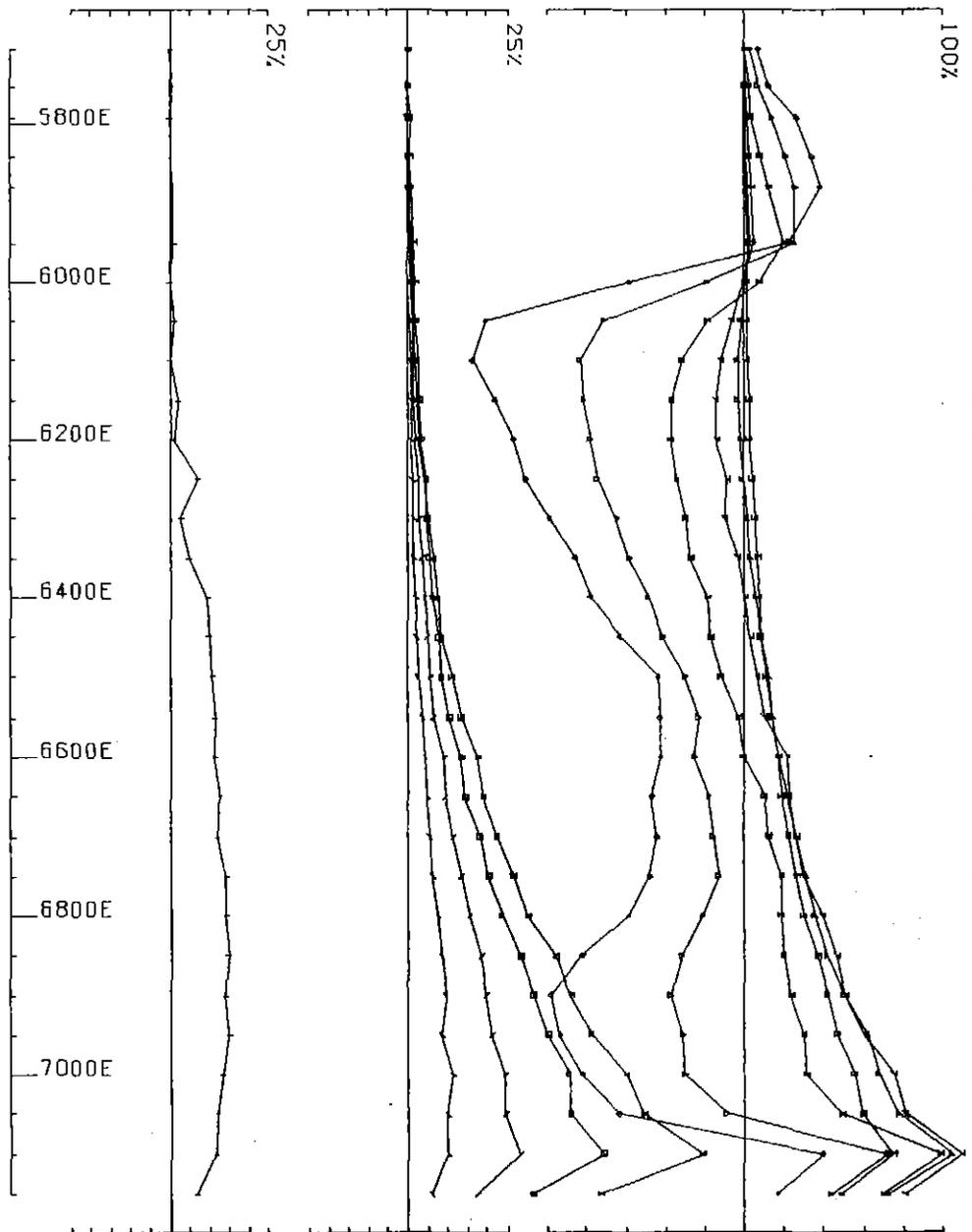
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NORTH SELINA

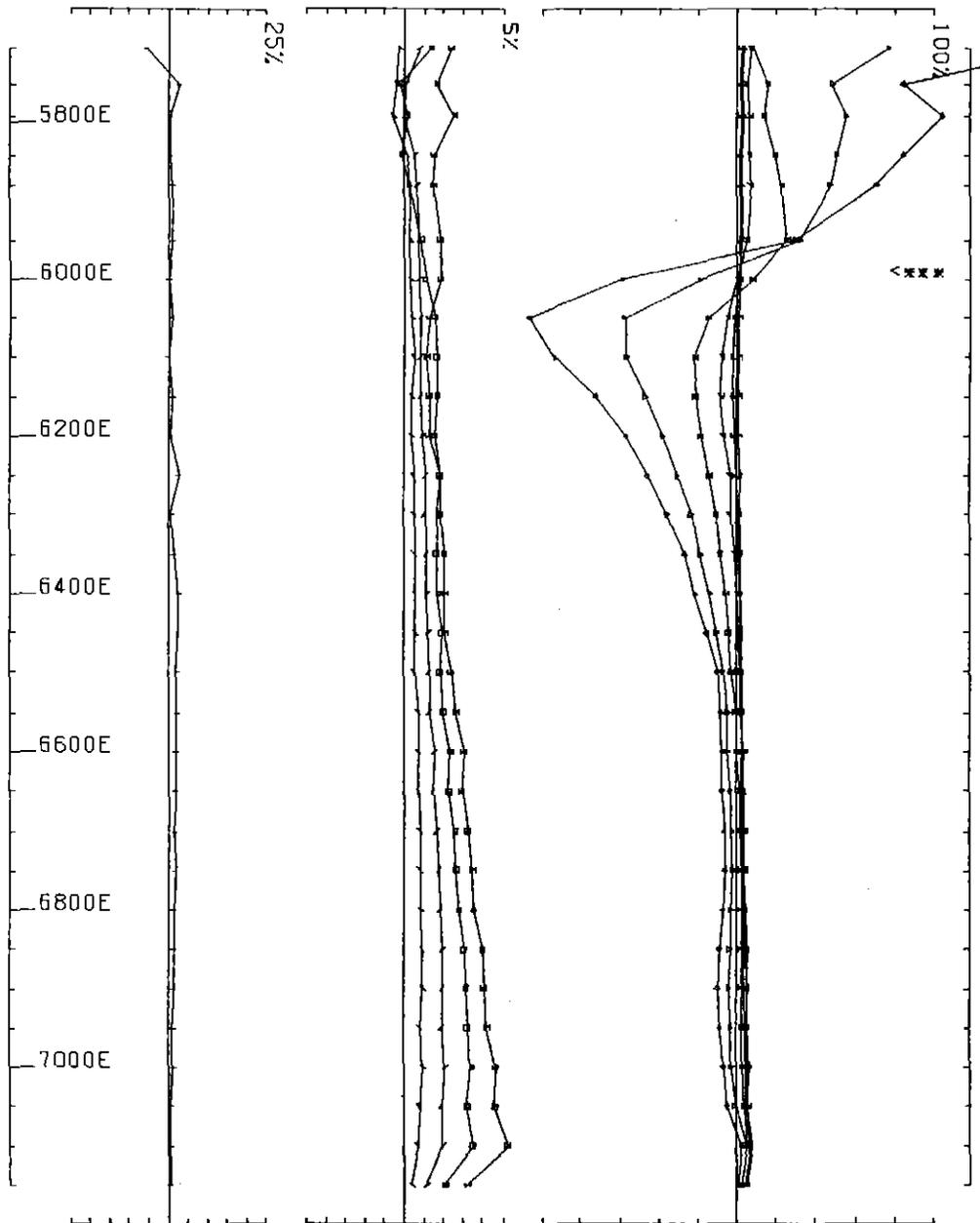
LOOP 2



UTEM SURVEY AT SELCNA FOR ABERFOYLE RESOURCES
CONDUCTED BY LANDFABNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.29
LOOP NO 2 LINE 5200 N COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

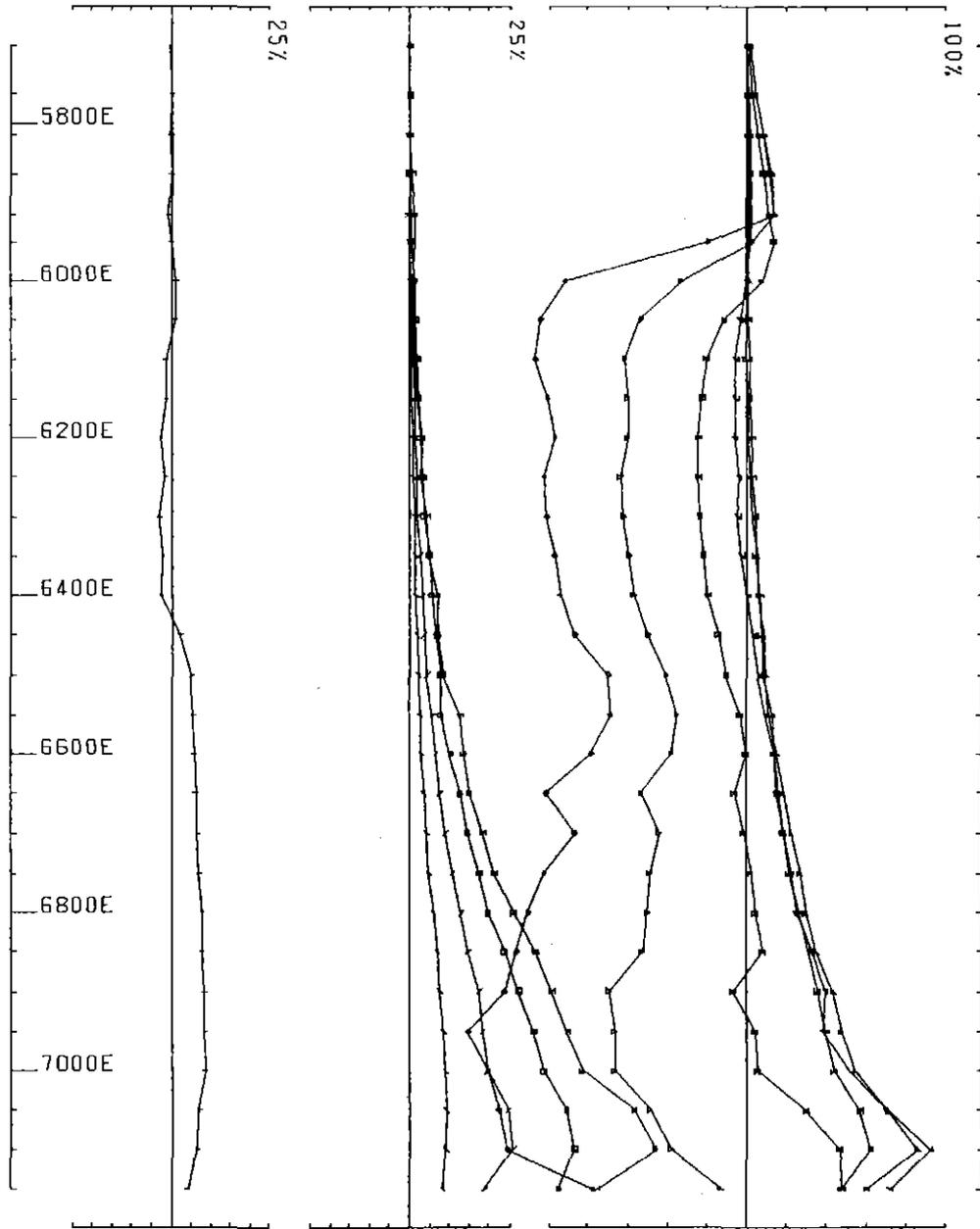
0039

131040



UTEM SURVEY AT SELINA FOR ABERFOYLE RESOURCES JANUARY 1991
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 2 LINE 5200 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

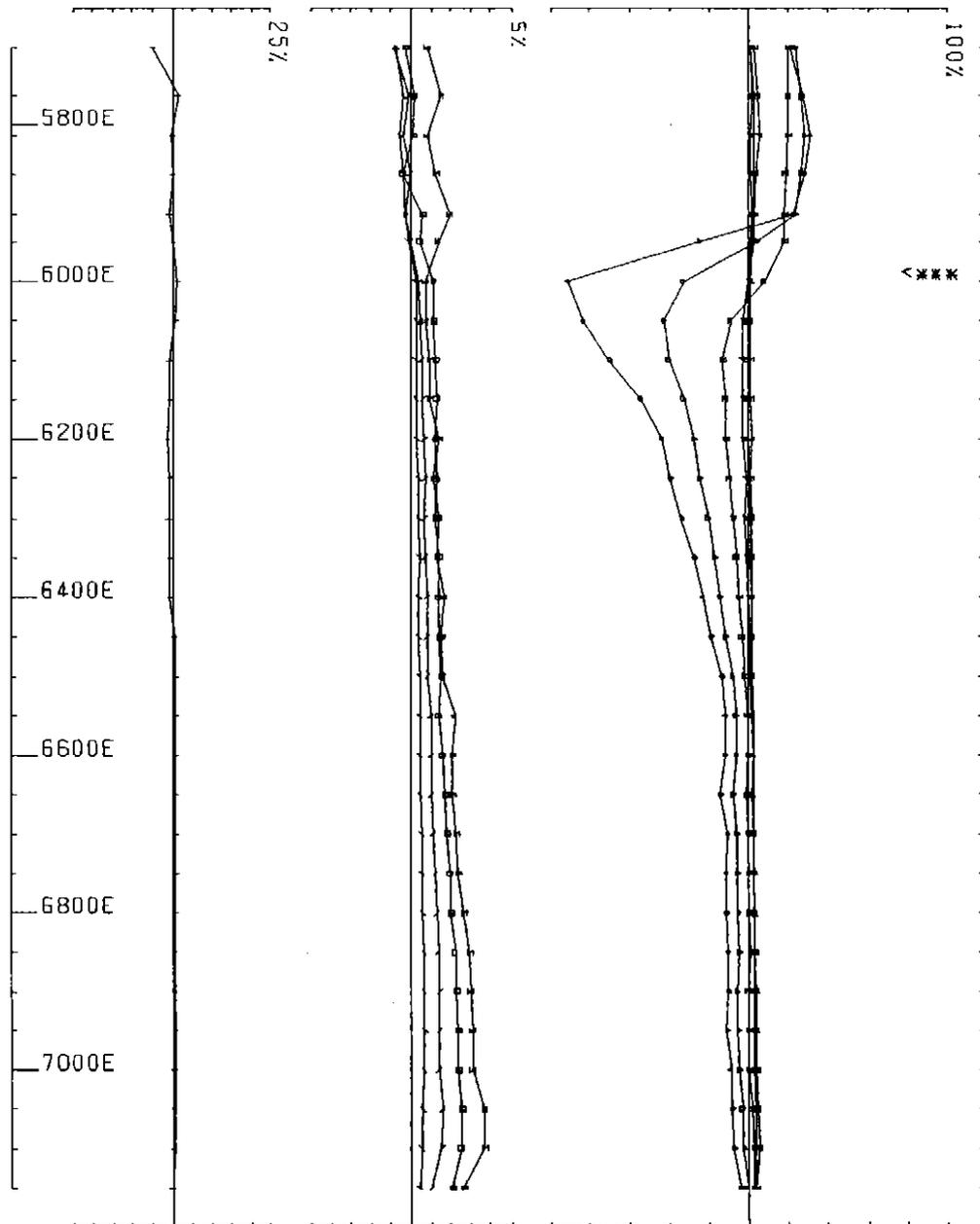
0040



UTEM SURVEY AT SELINA FOR ABERFOYLE RESOURCES
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB BJ02 BASE FREQ (HZ) 26.23
LOOP NO 2 LINE 5400 N COMPONENT HZ SECONDARY FIELD CH) CONTIN. NORM.

0041

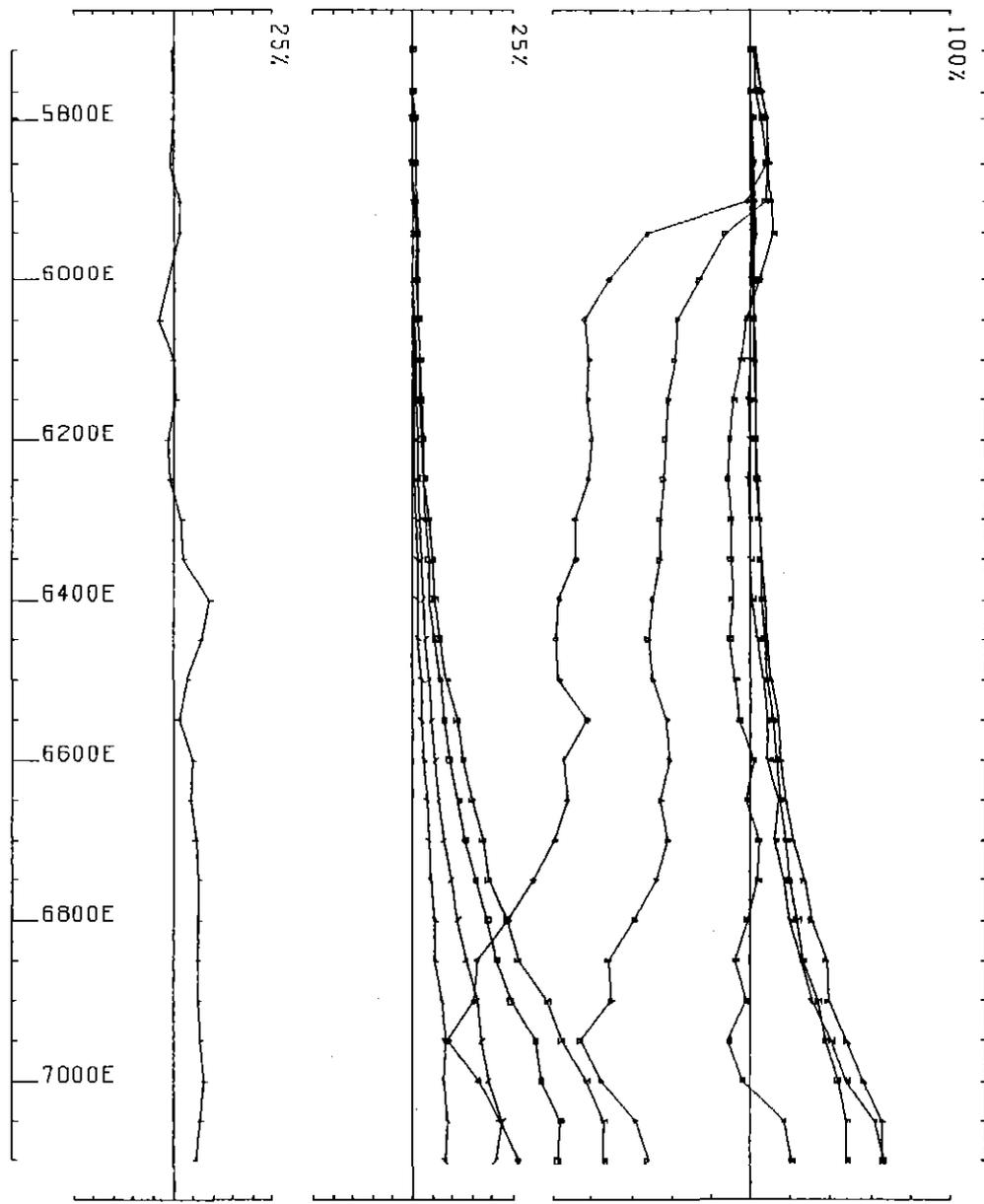
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0042

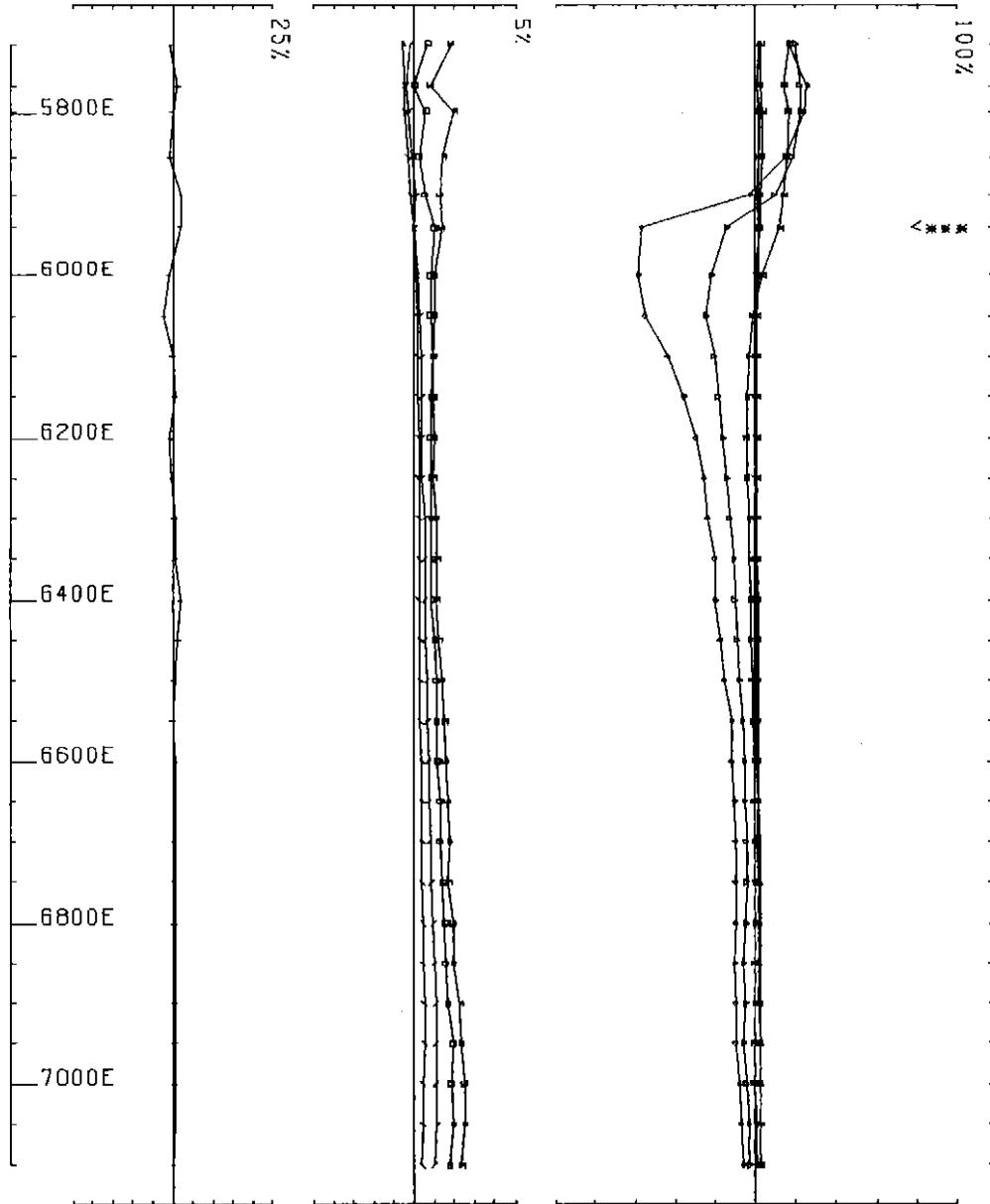
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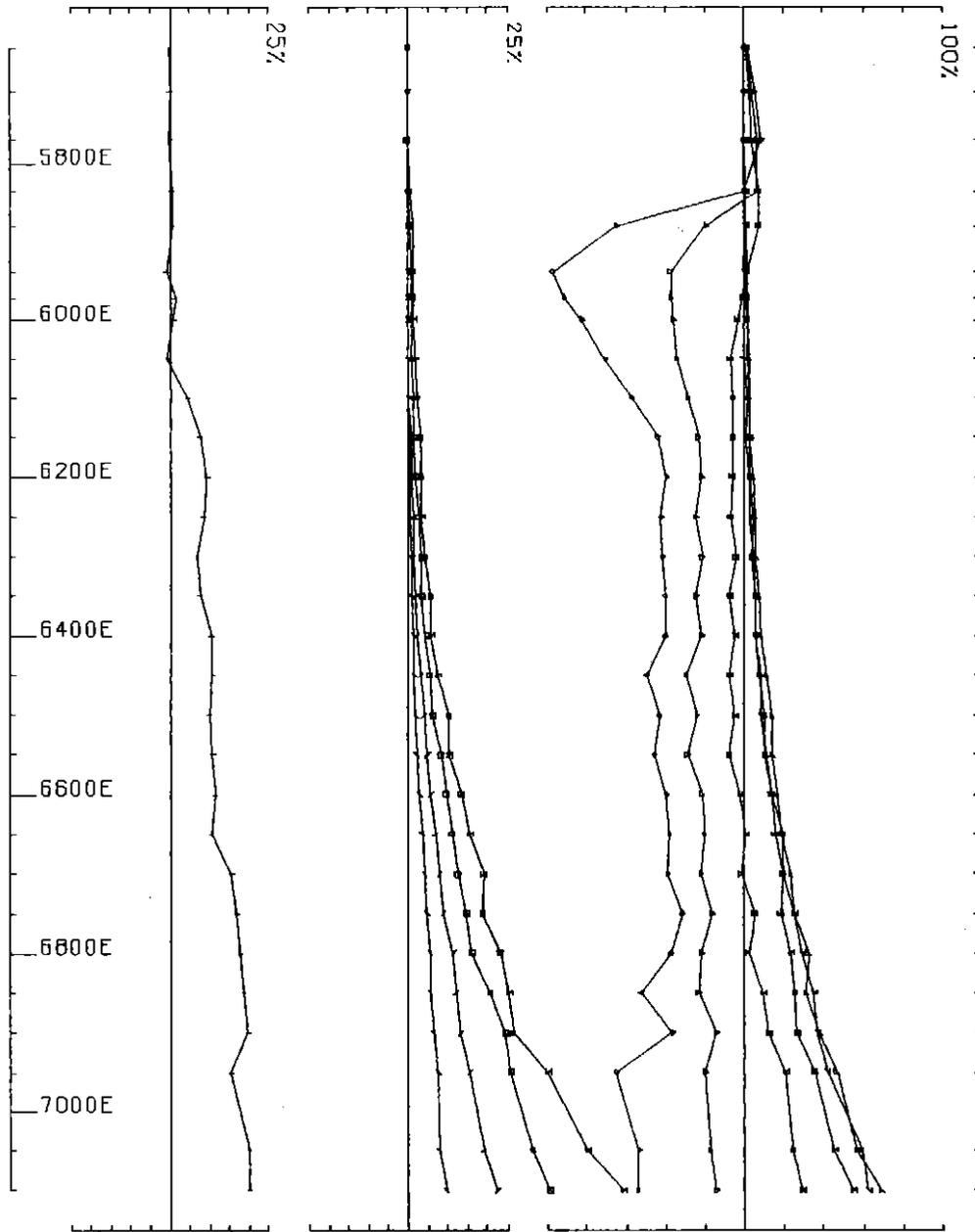
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CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 2 LINE 5600 N COMPONENT HZ SECONDARY FIELD CH) CONTIN. NDRM.

0043

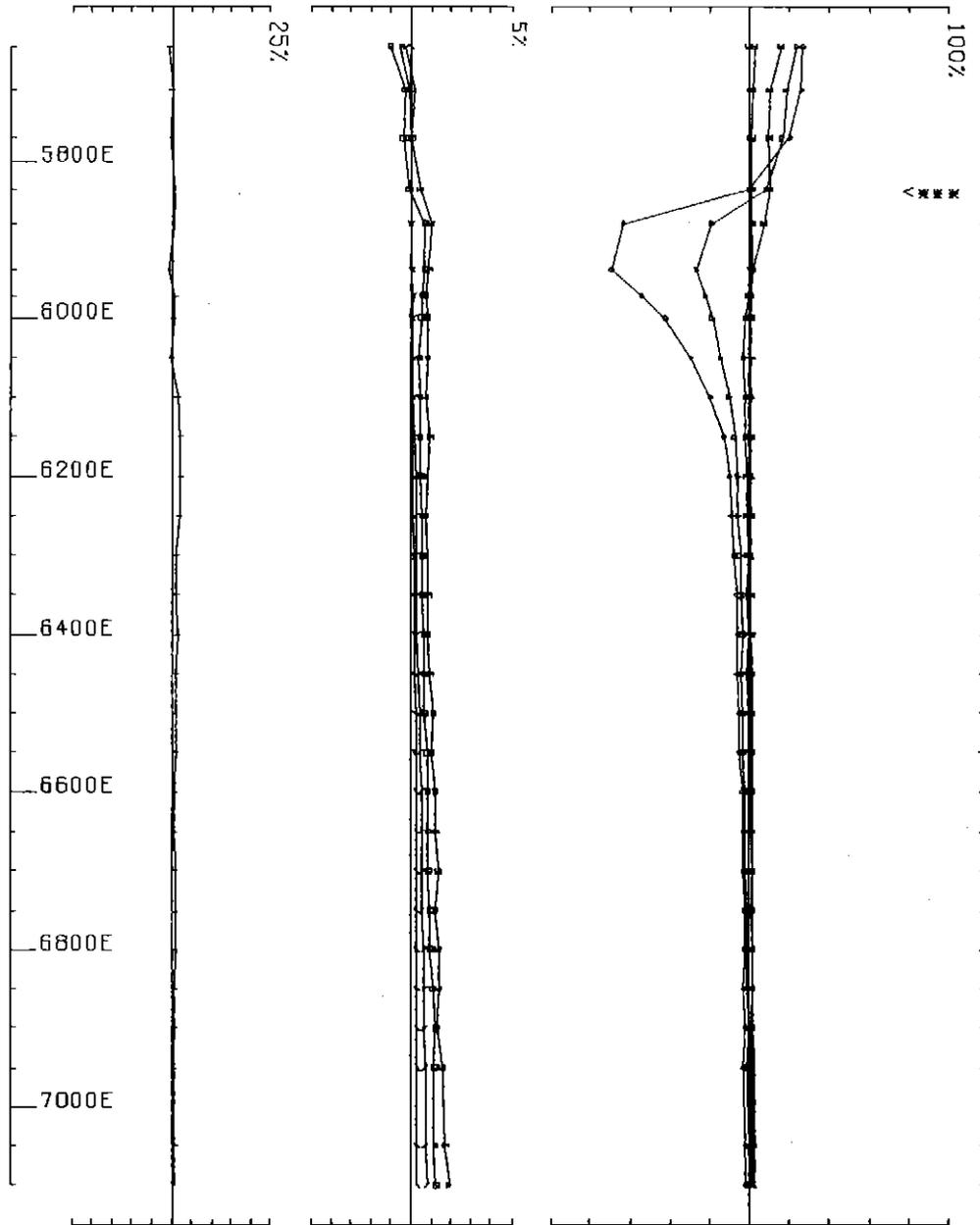
131044



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LOOP NO 2 LINE 5600 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.



UTEM SURVEY AT SELINA FOR ABERFOYLE RESOURCES
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 2 LINE 5800 N COMPONENT HZ SECONDARY FIELD CHI CONTIN. NORM.



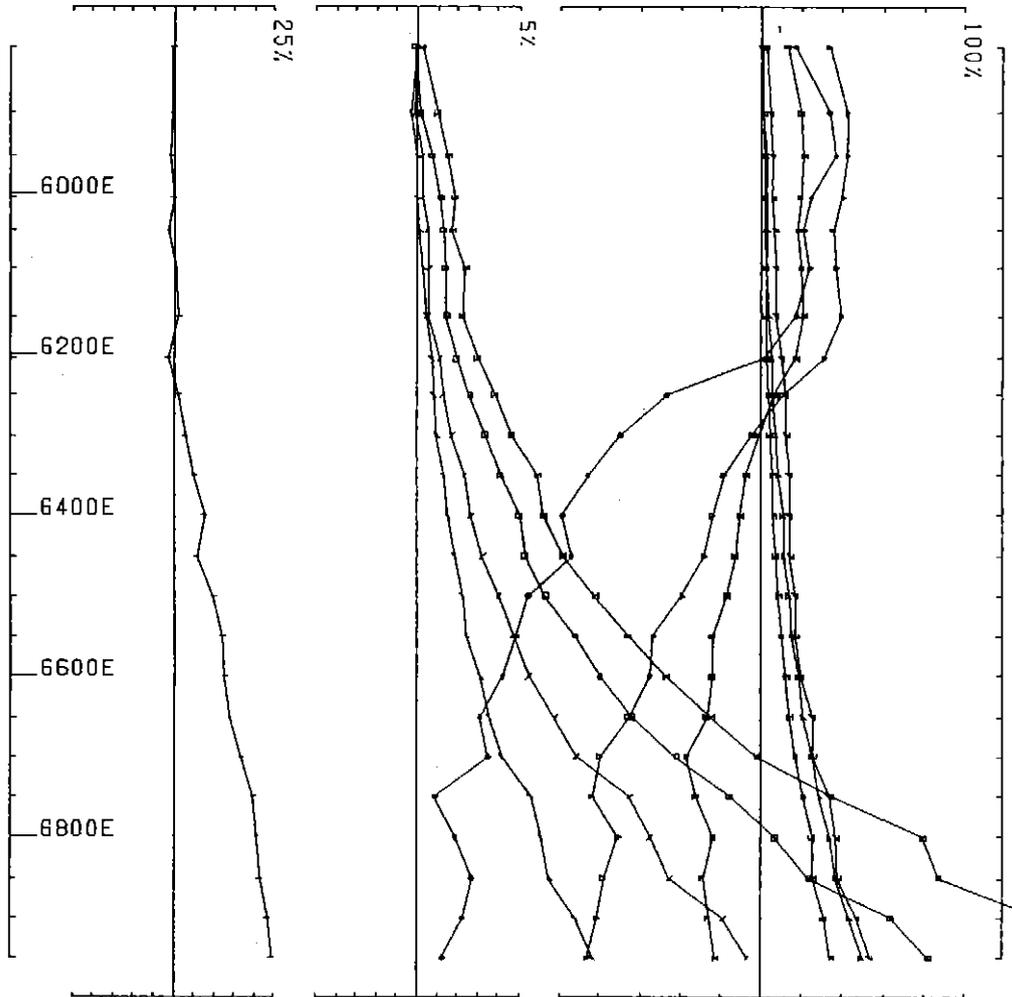
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0046

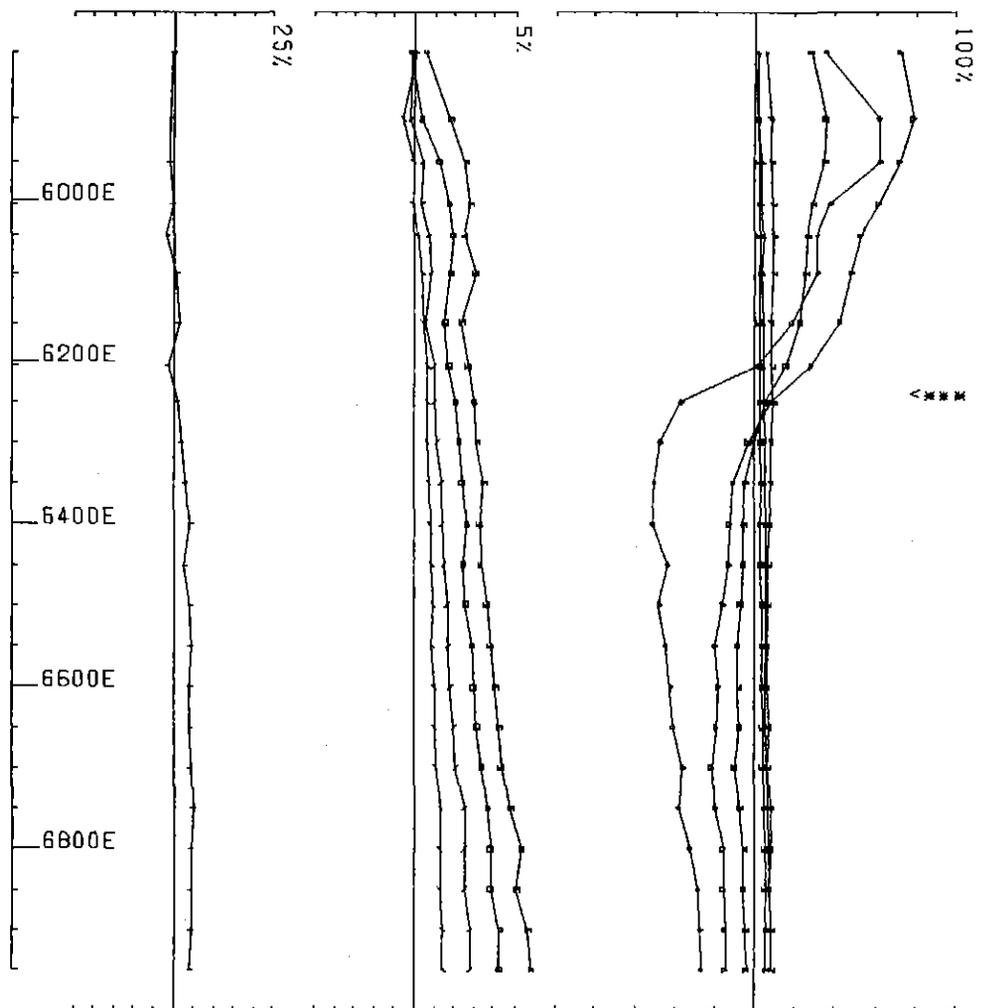
131047

NORTH SELINA

LOOP 3



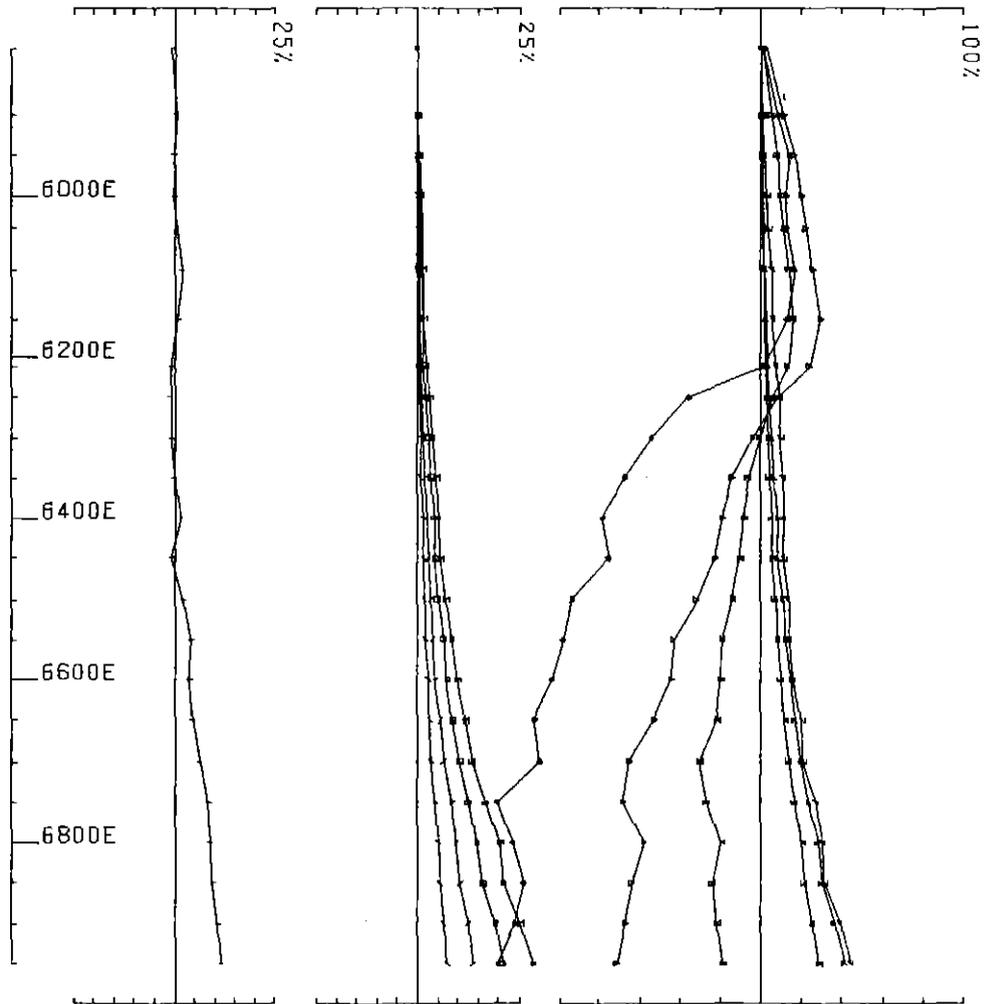
UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE REBURSES JANUARY 1991
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 4000 N COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.



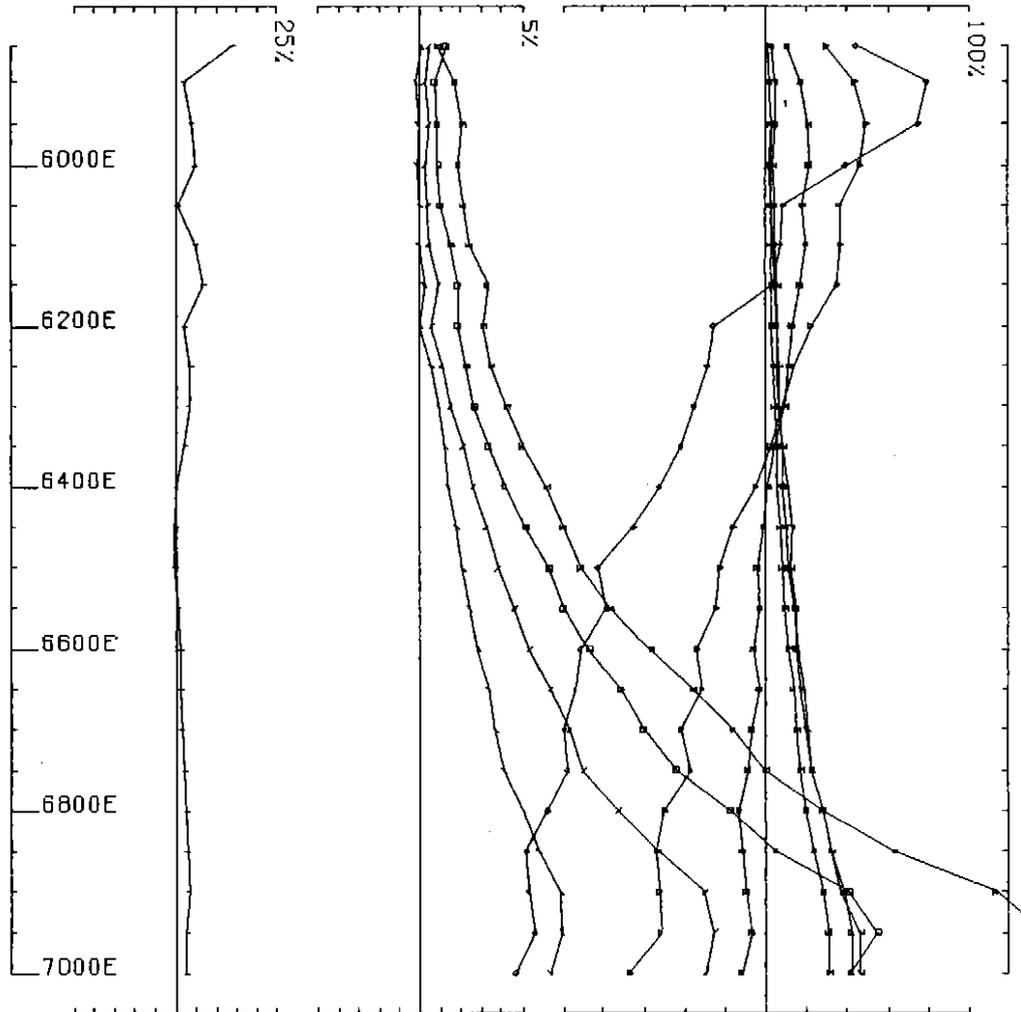
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CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 4000 N COMPONENT HZ SECONDARY FIELD CH) POINT NORN.

0049

131050



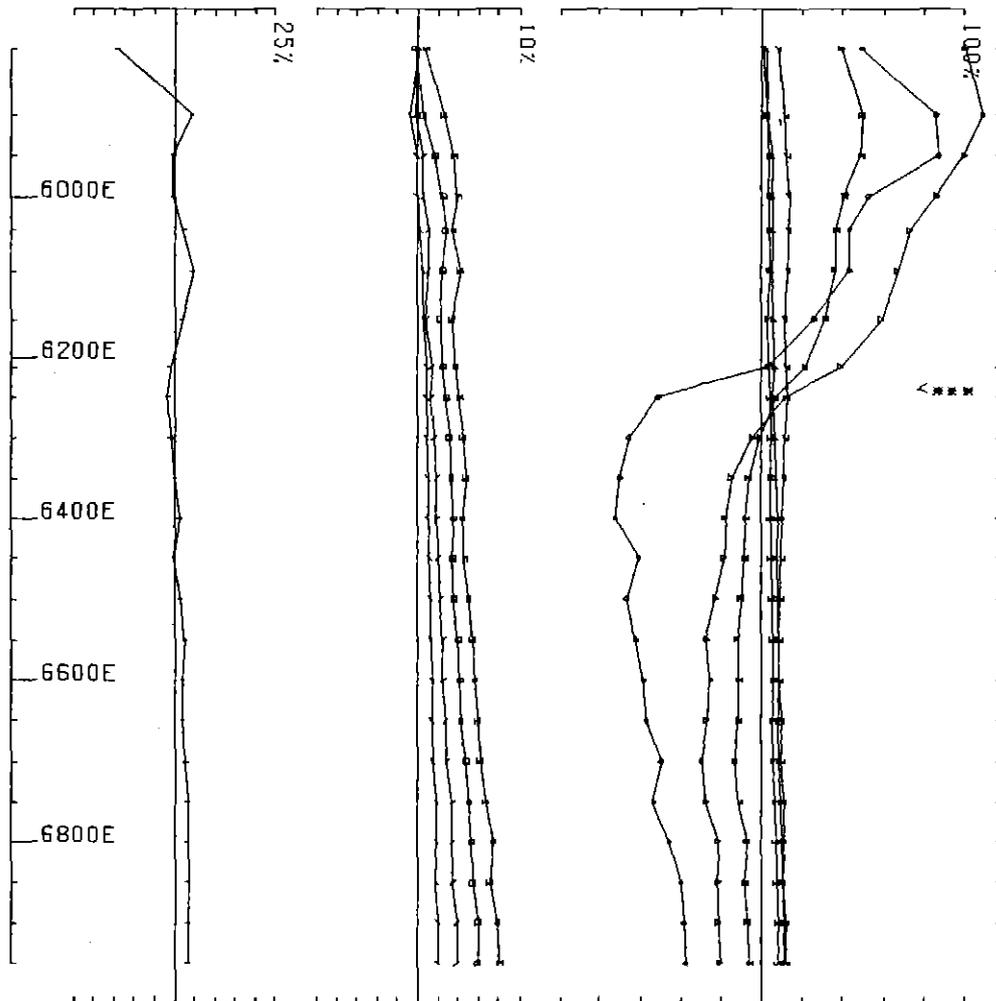
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CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 4000 N COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE REBURSES JANUARY 1991
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.29
LOOP NO 3 LINE 4200 N COMPONENT HZ SECONDARY FIELD CHI CONTIN. NORM.

0051

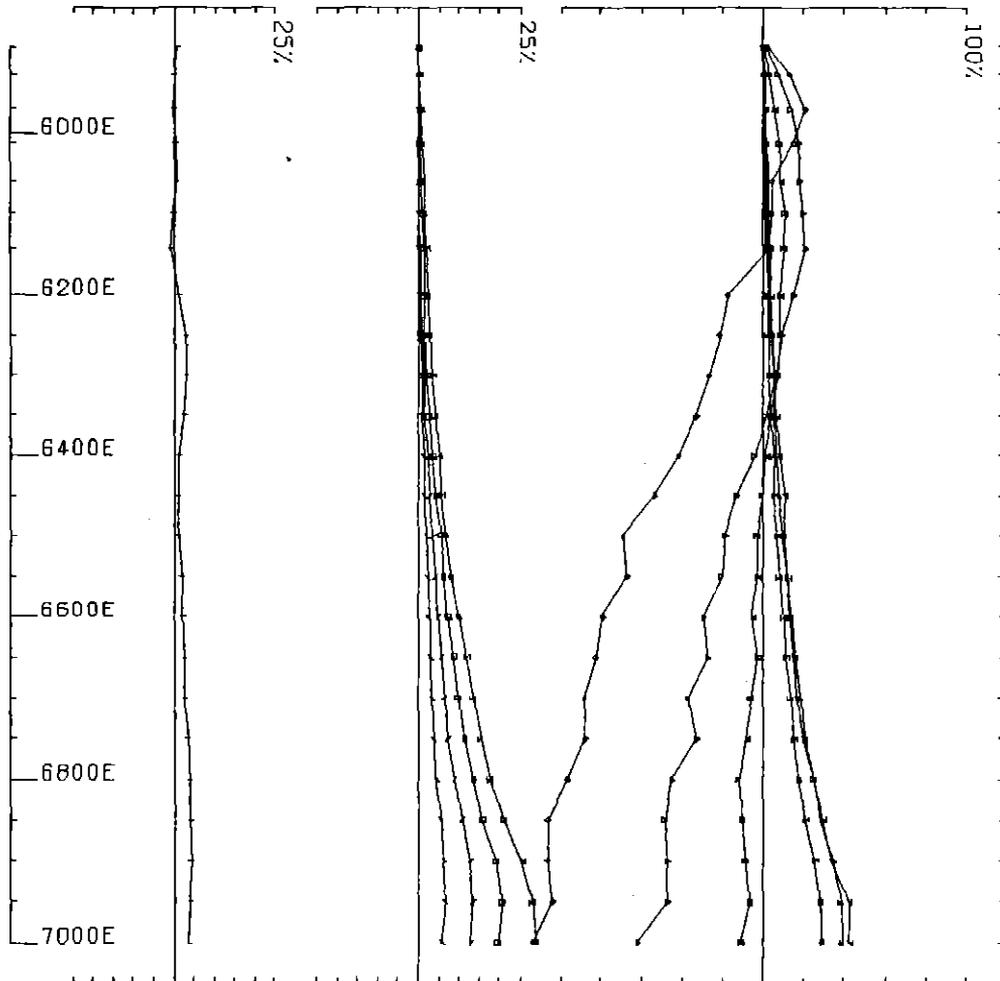
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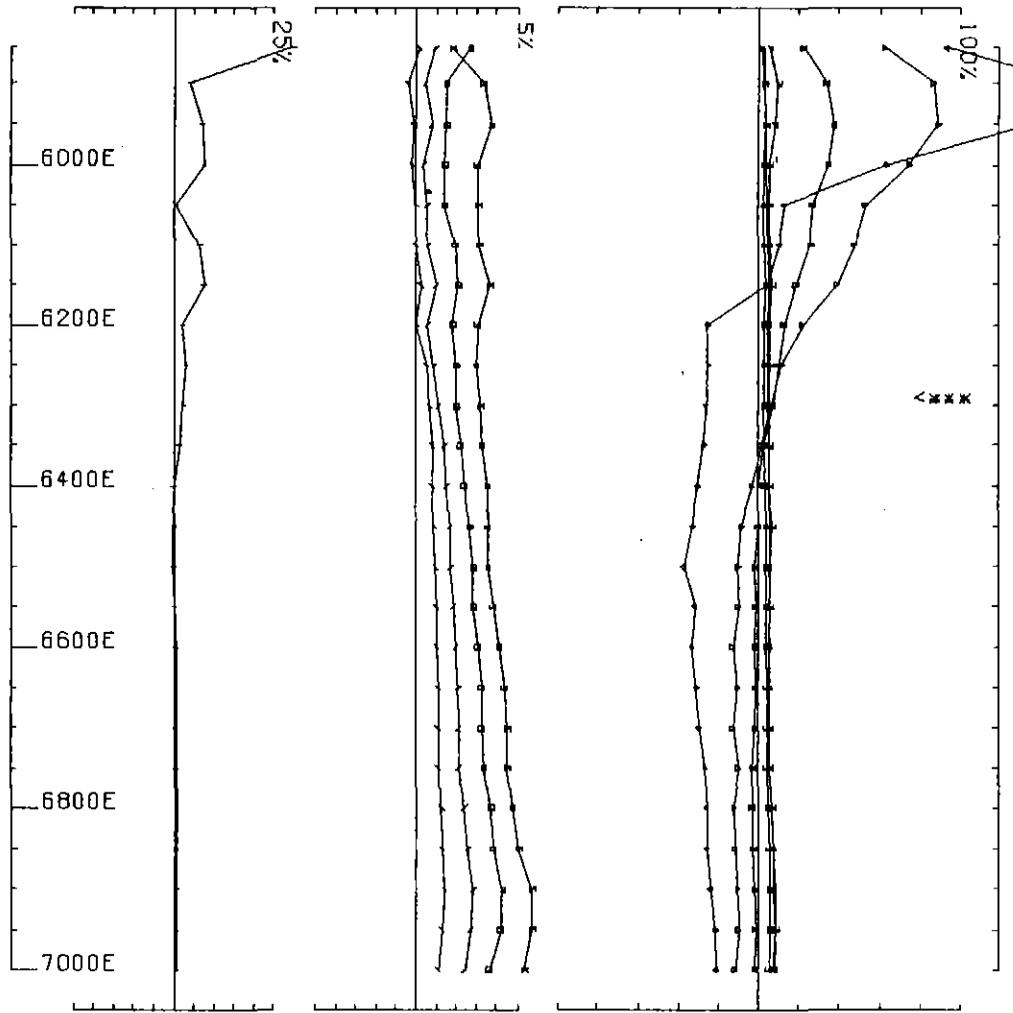
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0052

131053



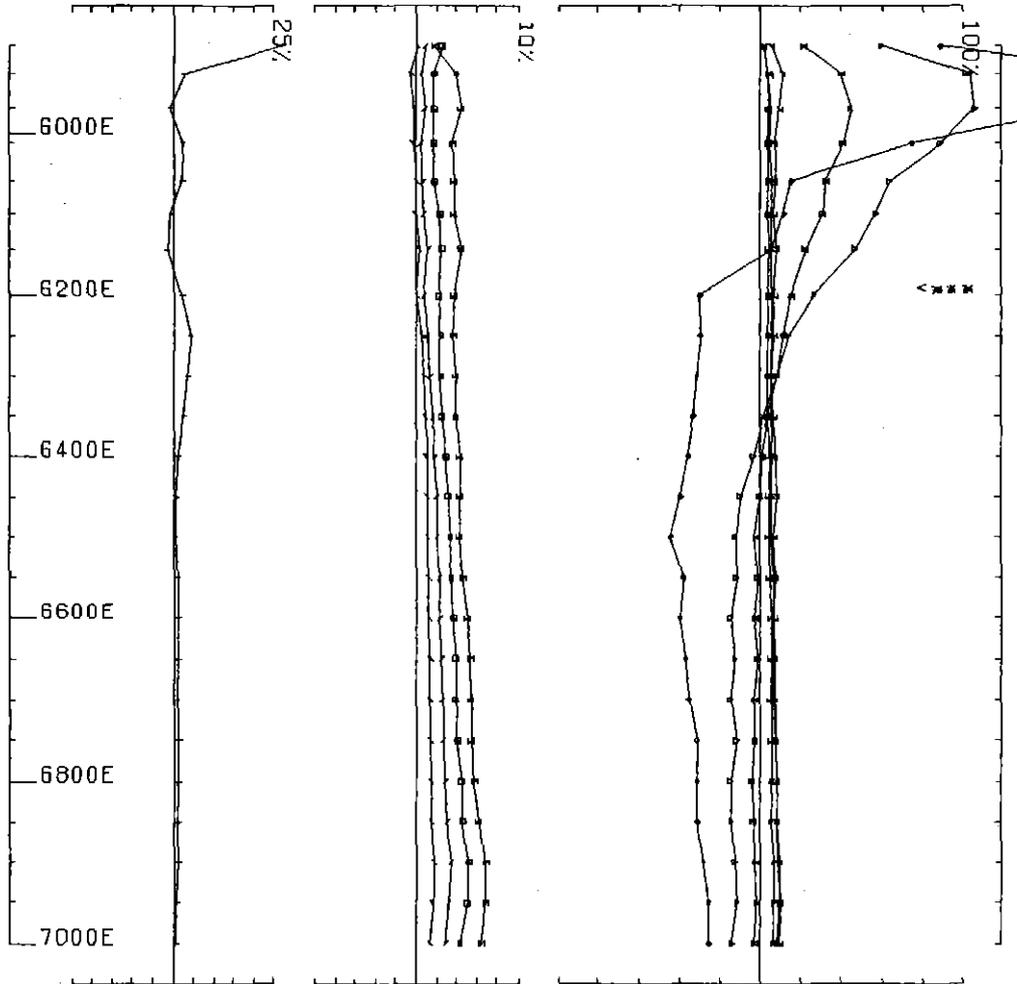
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CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 4200 N COMPONENT HZ SECONDARY FIELD CHI CONTIN. NORM.



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE RESOURCES JANUARY 1991
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (KHZ) 26.29
LOOP NO 3 LINE 4200 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORR.

0054

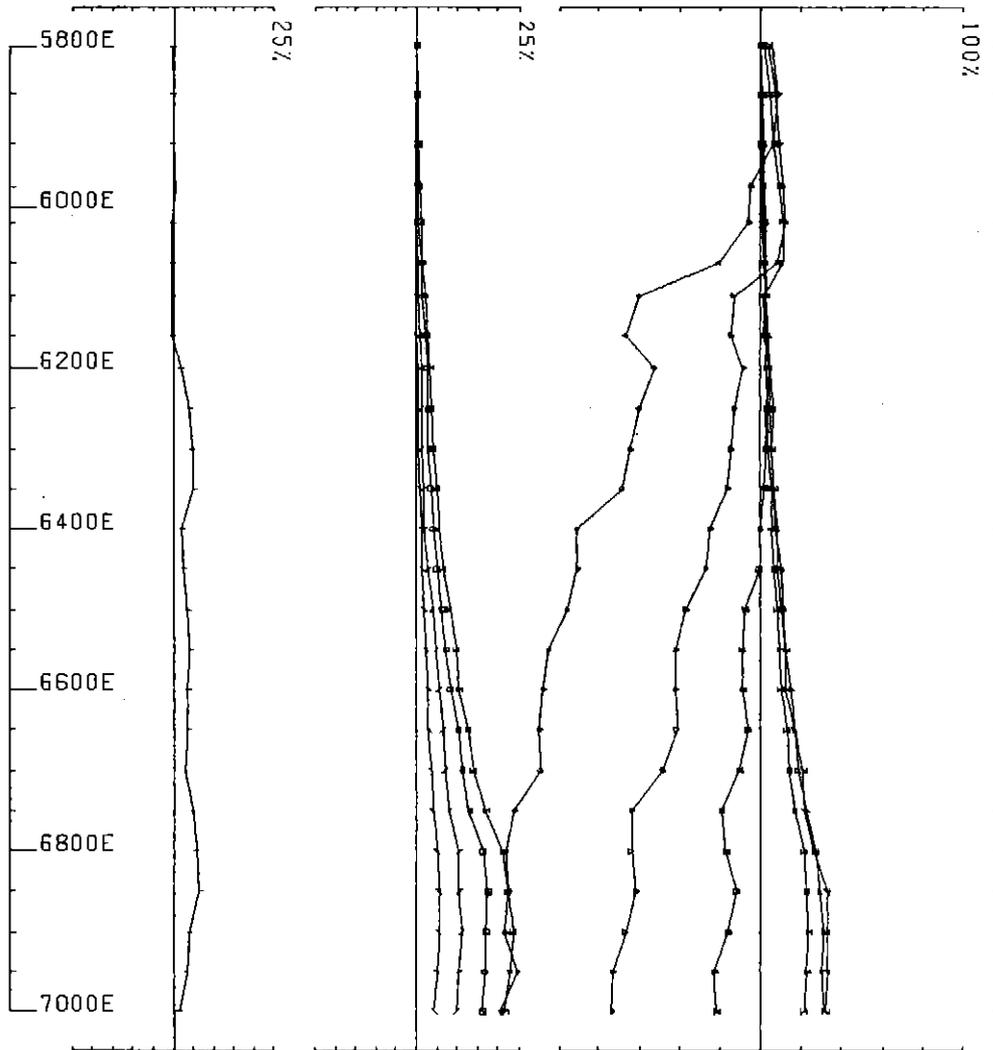
131055



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE RESOURCES JANUARY 1991
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LOOP NO 3 LINE 4200 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

0055

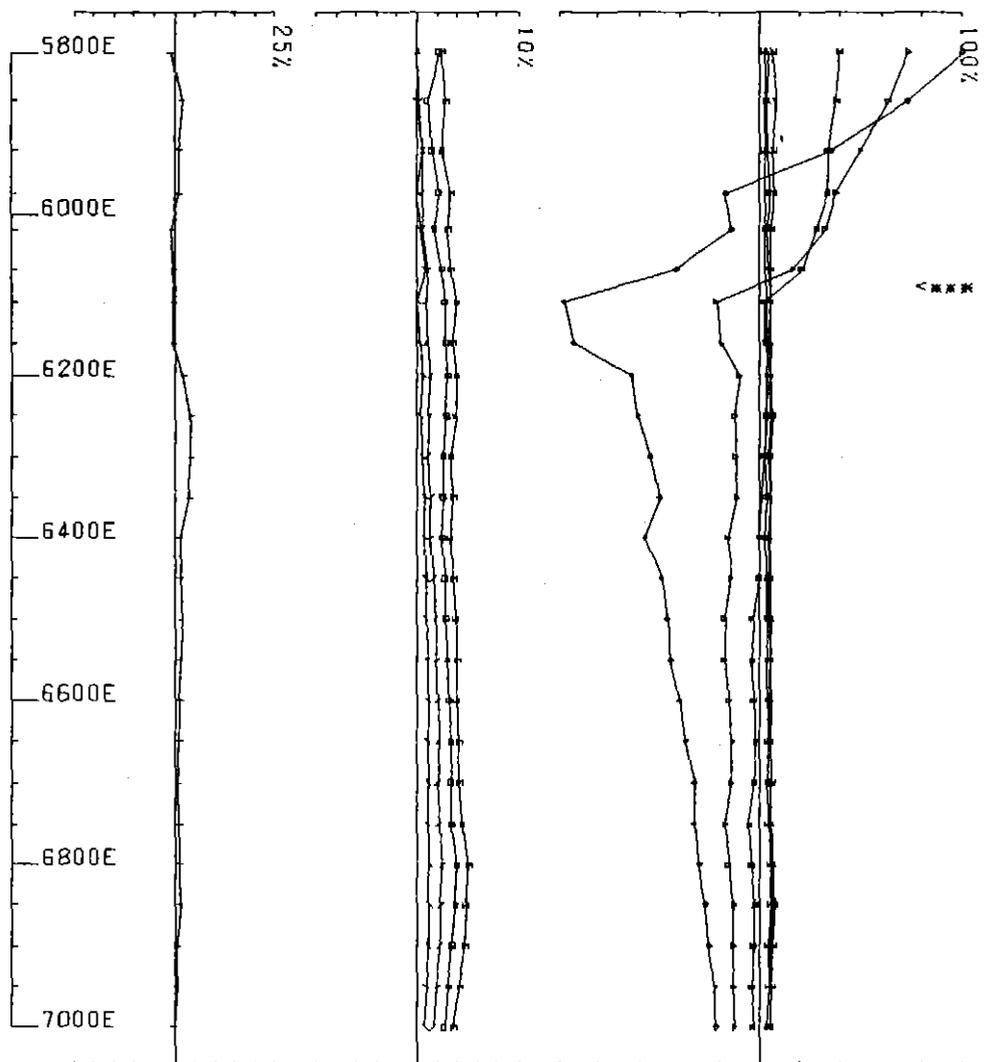
131056



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE REGBURCES JANUARY 1991
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
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0056

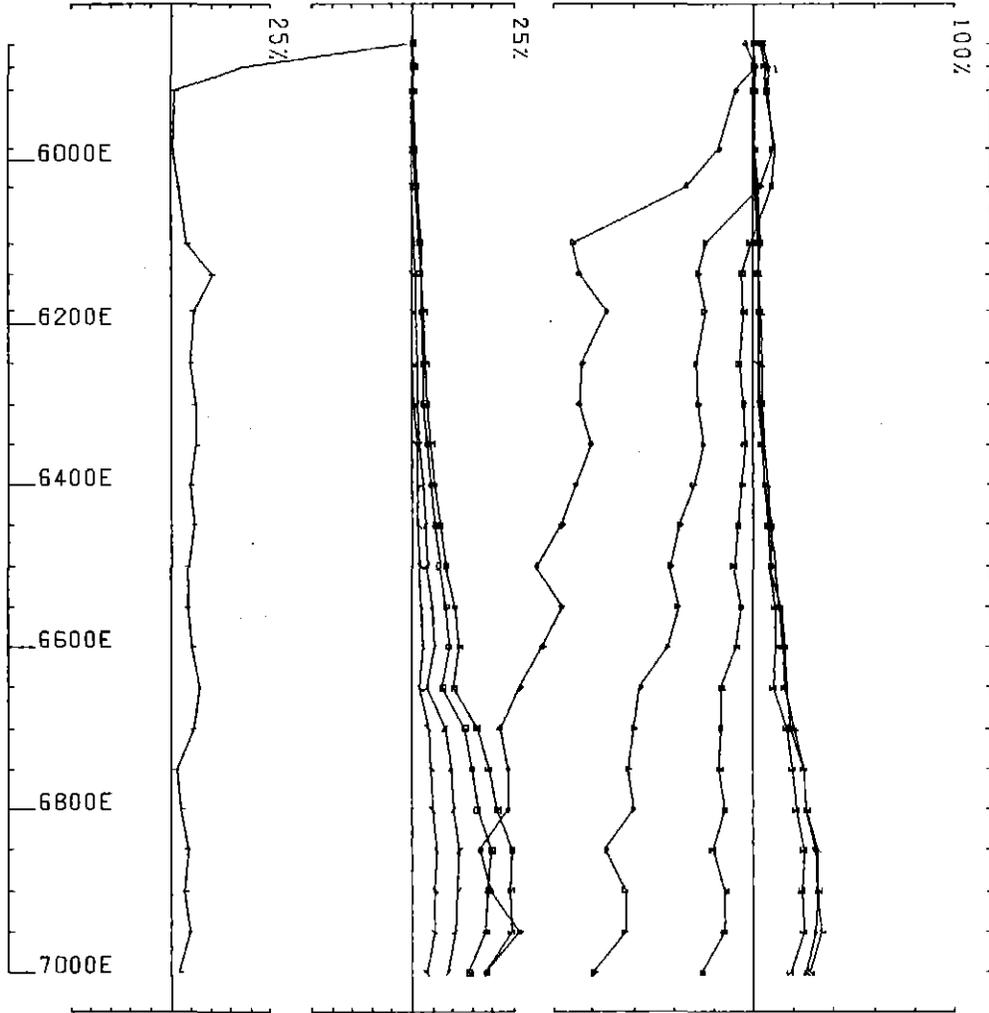
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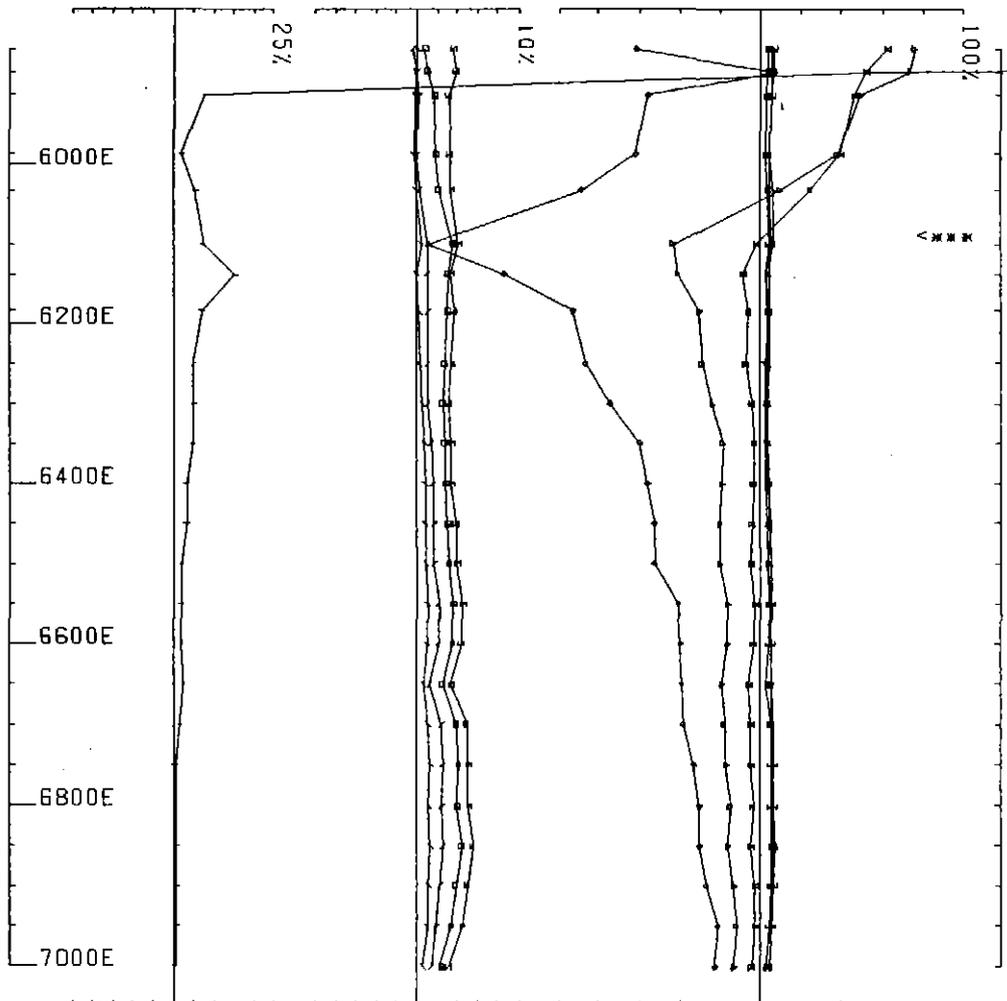
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131058



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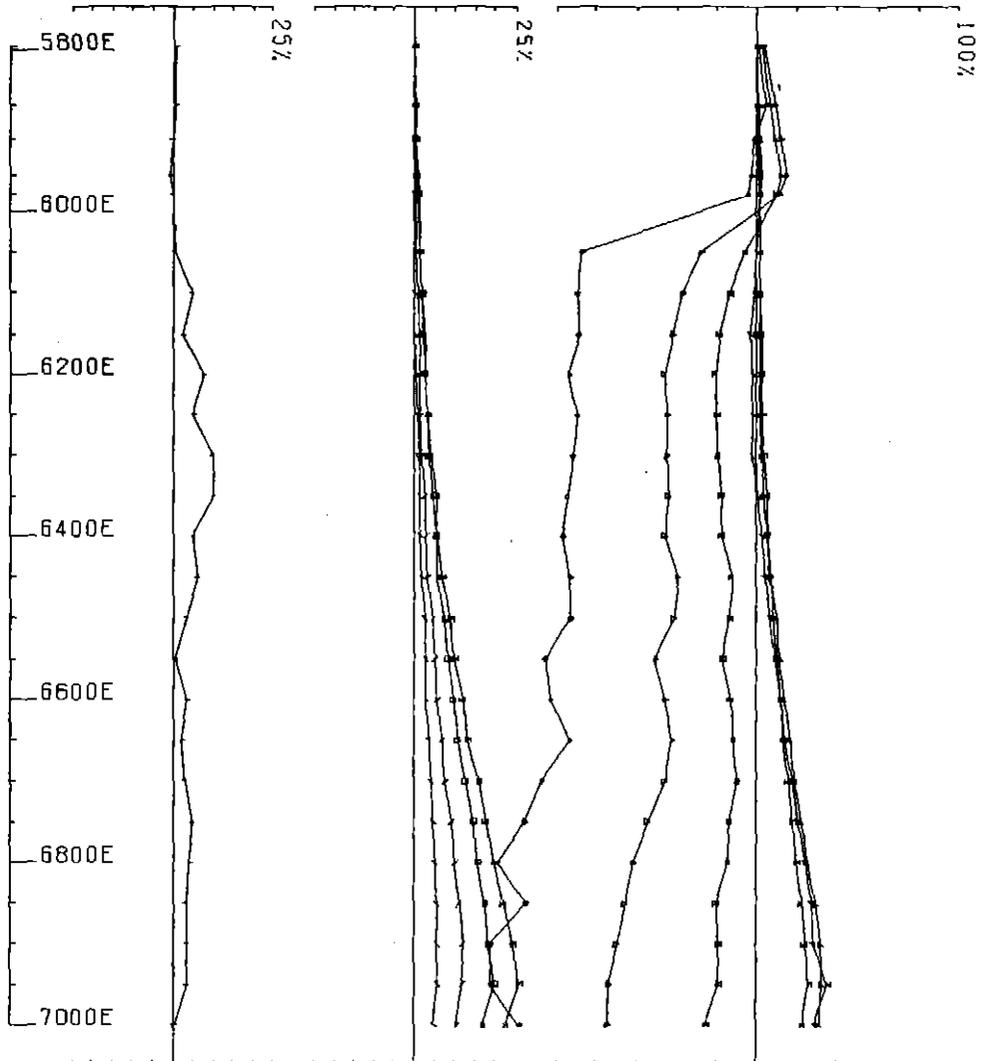
0058



UTEM SURVEY AT SELCNA LAKE FOR ABERFOYLE RESOURCES JANUARY 1991
 CONDUCTED BY LANDMAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.29
 LOOP NO 3 LINE 4600 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

0059

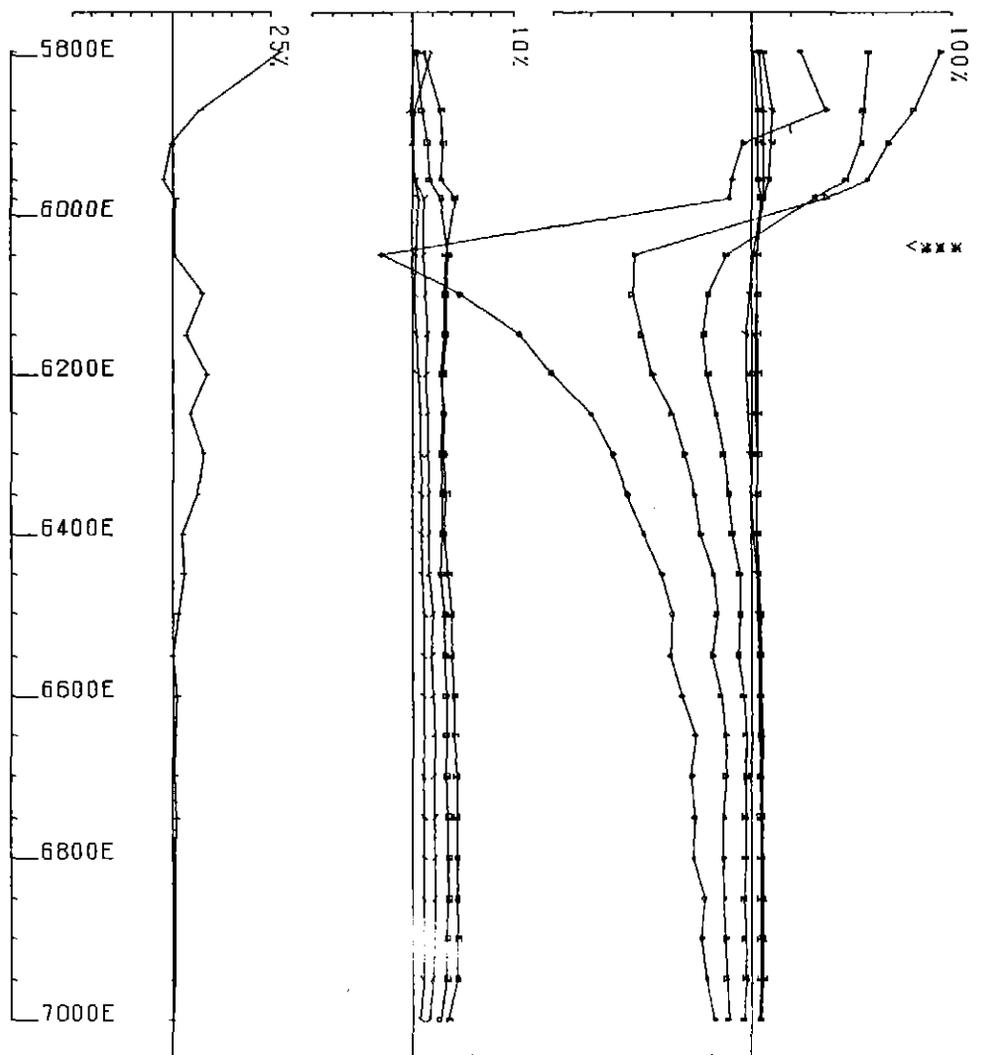
131000



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CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 4800 N COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NDRN.

0060

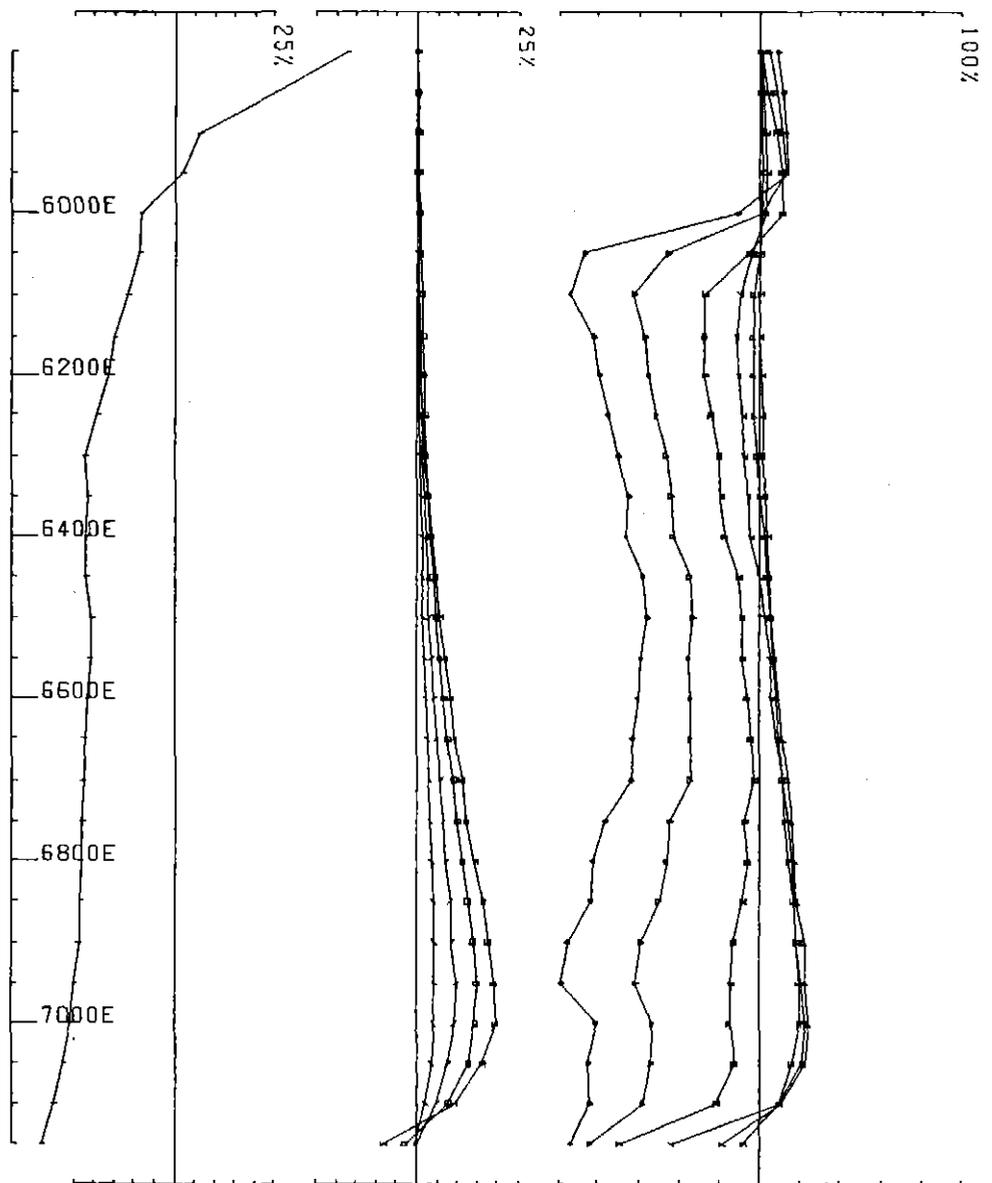
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LOOP NO 3 LINE 4800 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

0061

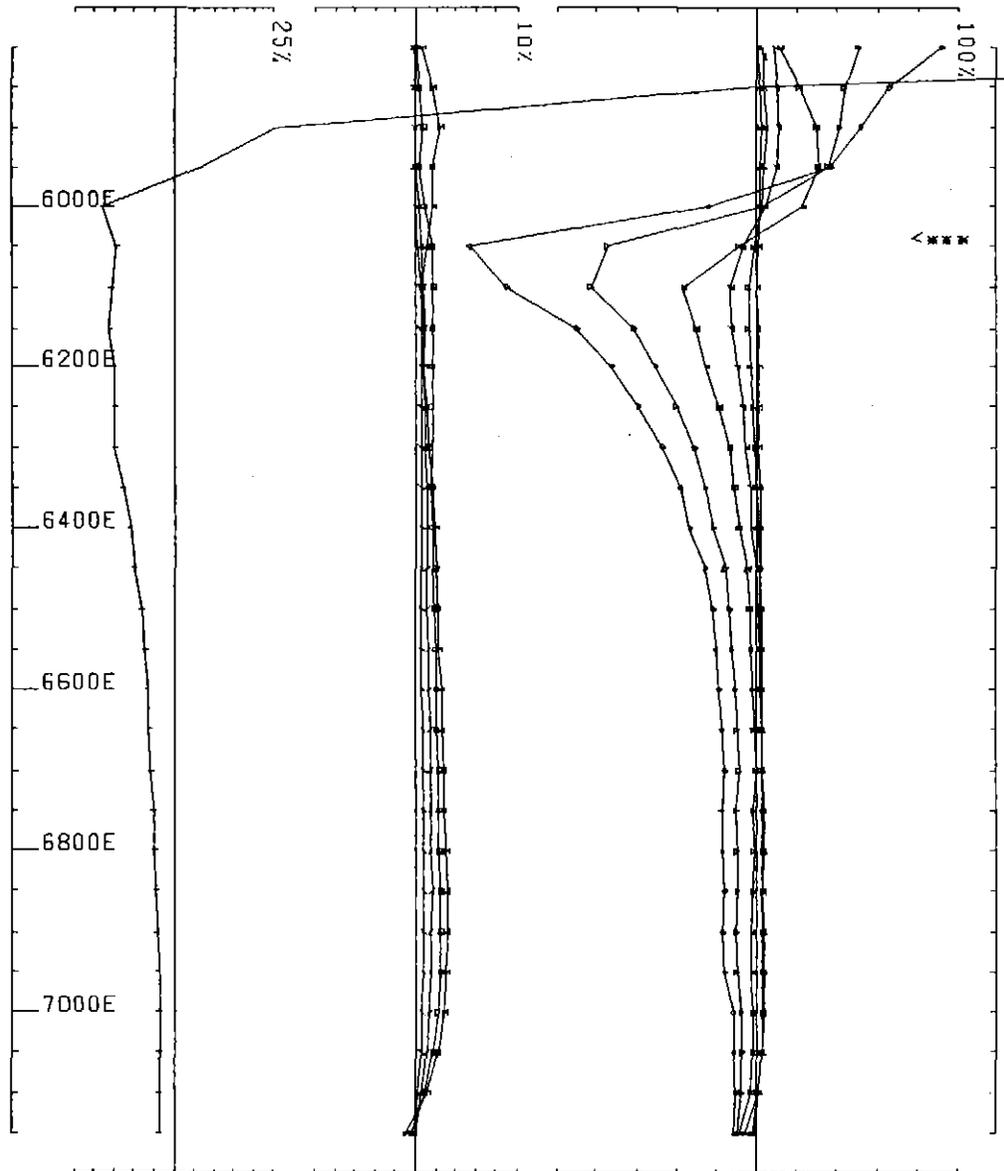
131062



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE RESOURCES JANUARY 1993
CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 5000 N COMPONENT HZ SECONDARY FIELD CH1 CONTIN. NORM.

0062

131063



UTEM SURVEY AT SELINA LAKE FOR ABERFOYLE RESOURCES JANUARY 1991
CONDUCTED BY LANONTAGNE GEOPHYSICS LTD JOB 0102 BASE FREQ (HZ) 26.23
LOOP NO 3 LINE 5000 N COMPONENT HZ SECONDARY FIELD CH1 POINT NORM.

0063

131064

APPENDIX 3

0064

131065

ABERFOYLE

MEMORANDUM

Date 16 October, 1991

Ref

To Steve Richardson

From Jovan Silic

At Burnie

At Hawthorn

Copies to

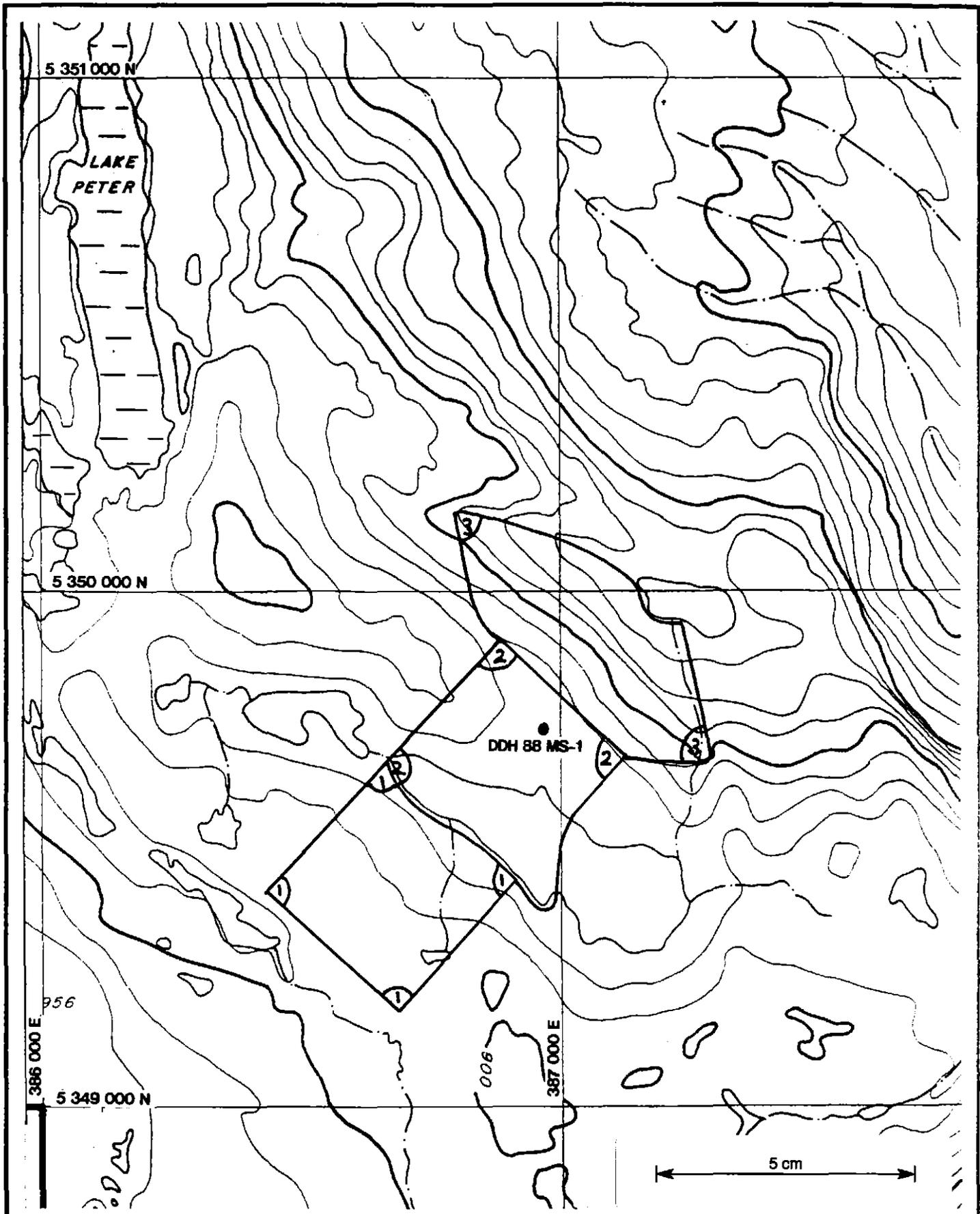
Keep

Subject

A three loop DHEM survey was conducted in DDH 88 MS-1 using the Zonge GDP-16 system operating at 32 HZ. Loop locations are shown on Plate L.MARG. 44.

Apart from outlining some surface conductivity, no other effects which could be attributed to conductors are evident in the data.

J. Silic.



Aberfoyle Resources Limited
EXPLORATION DIVISION

WESTERN TASMANIA

LAKE MARGARET EL5/85 C.R.A. JV
DDH 88 MS-1 DHEM LOOP LOCATIONS

Compiled : **SMR**

Drawn :

Traced : **SMR**

Checked :

Plate No. : **LMARG 44**

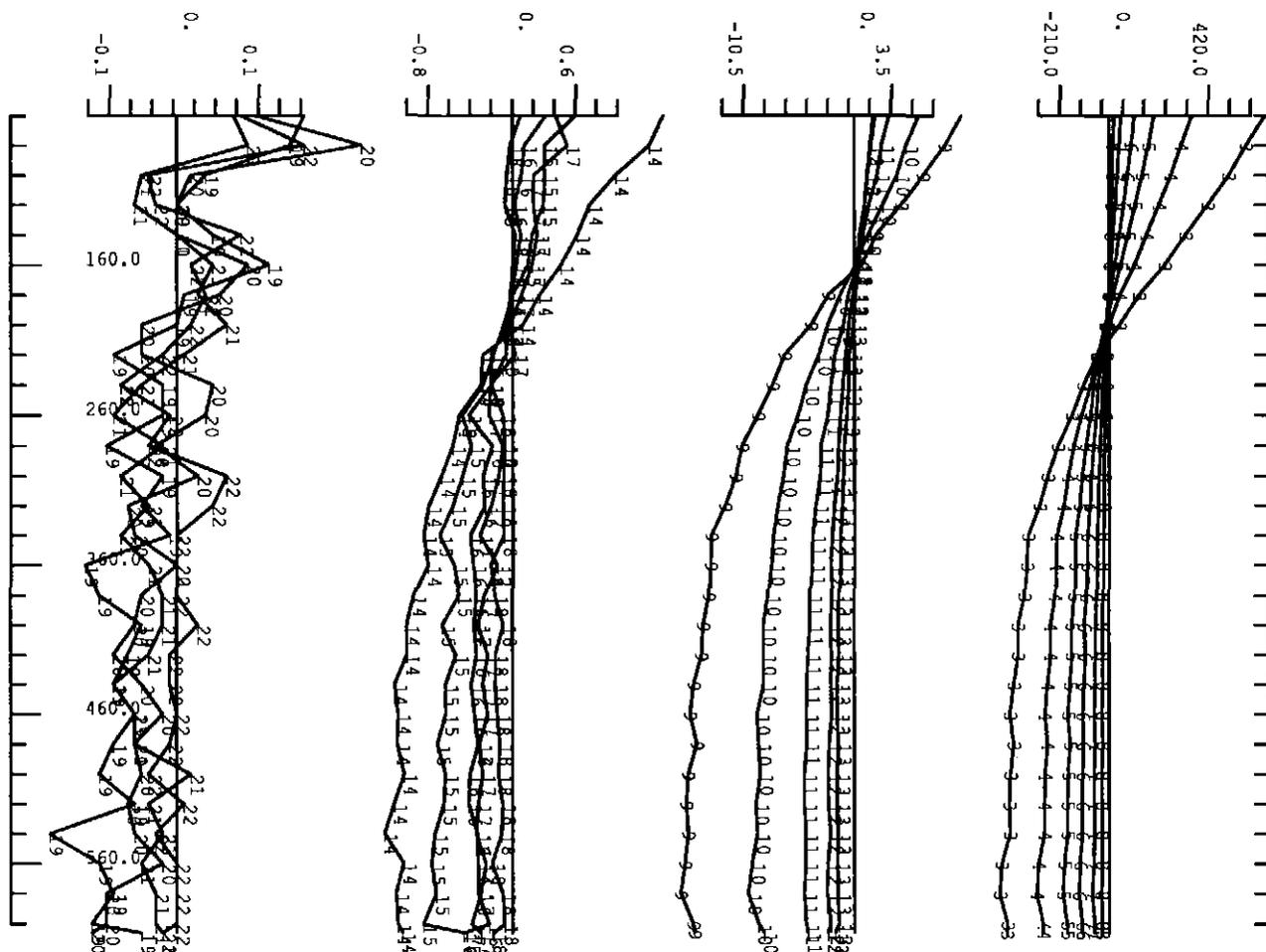
REVISIONS			
Init.	Date	Init.	Date

Location Code :

Scale : 1 : 10 000

Date : **OCTOBER 91**

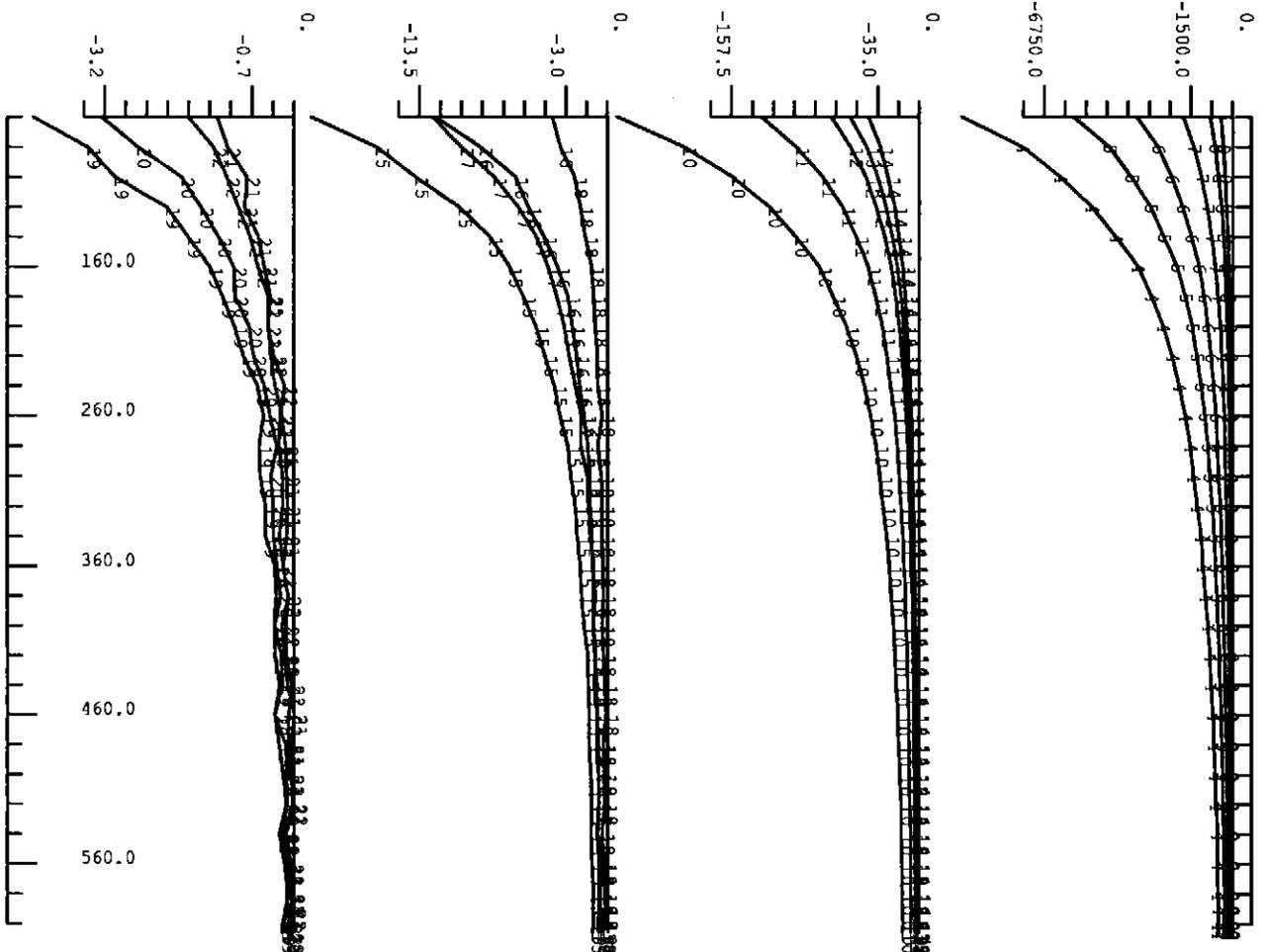
0066



MT SEDGWICK
 DOWN HOLE EM
 ZONGE GDP_16
 LOOP 1
 32 HZ
 Aberfoyle Resources Limited
 Horiz scale 1: 5000.0 Plot number : 9

5 cm

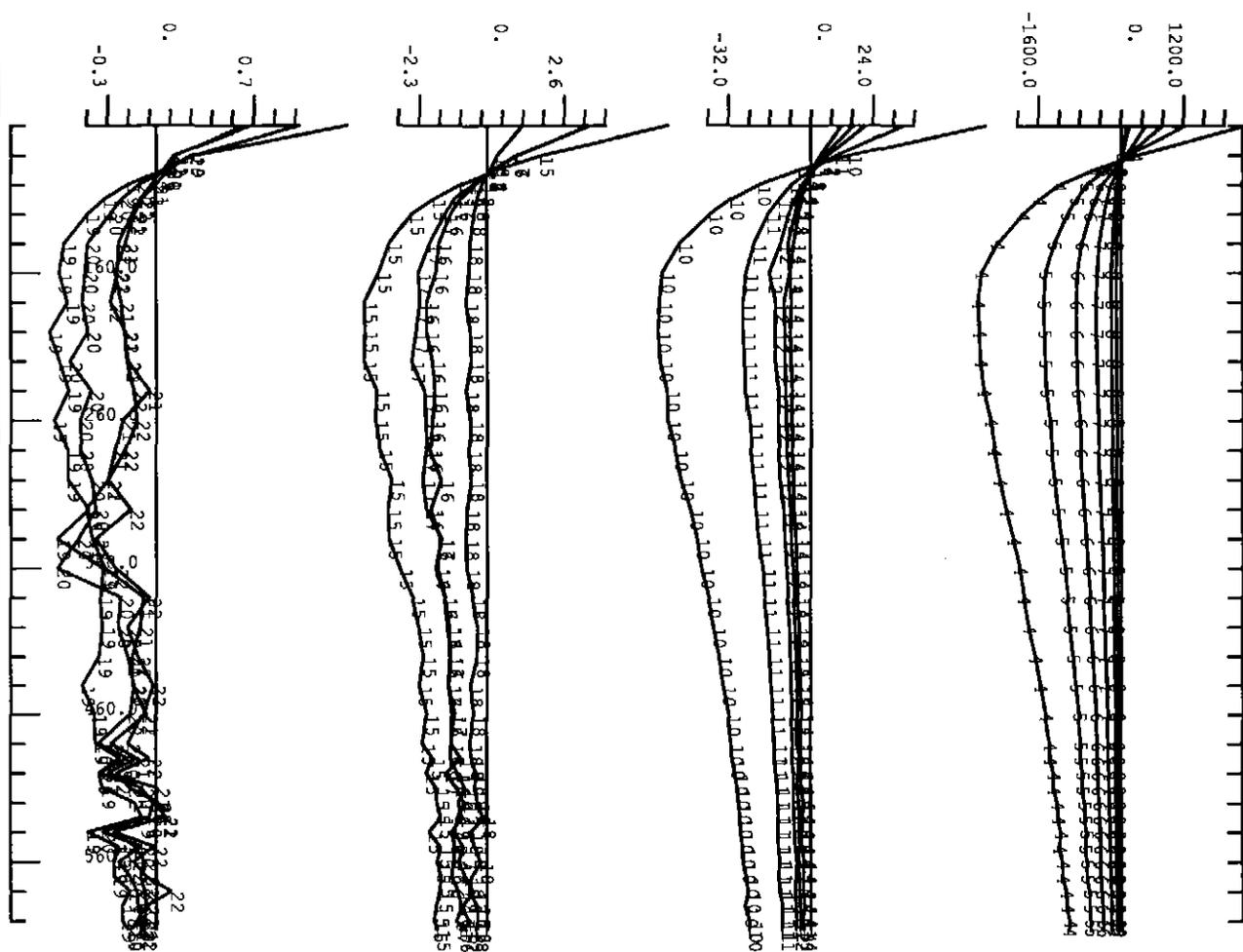
0067



MT SEDGWICK
 DOWN HOLE EM
 ZONGE GDP _16
 LOOP 2
 32 HZ
 Aberfoyle Resources Limited
 Horiz scale 1: 5000.0 Plot number : 11

5 cm

0068



MT SEDGWICK
 DOWN HOLE EM
 ZONGE GDP_16
 LOOP 3
 32 HZ
 Aberfoyle Resources Limited
 Horiz scale 1: 5000.0 Plot number : 12

5 cm

0069

131070

APPENDIX 4

0071

ANALABS

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

131072

Phone (004) 316837

14 Thirkell St. CODEE TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No.

100560.60.08079

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

INVOICE TO:

Exploration Division
Aberfoyle Resources Limited
PO Box 952
BURNIE TAS 7320

ORDER No.

PROJECT

13203

DATE RECEIVED

RESULTS REQUIRED

20/06/91

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

15/07/91

1

15

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

55870/884

RC Prep : GP018

Cu,Pb,Zn,Ag/6A101

565870/884

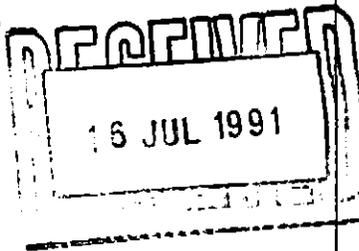
RC Prep :

Ba,As,Cr,Zr,Ti,Ti:Zr/6X401

565875/76,565878

RC Prep :

Au:1,Au:5/66309



RESULTS

TO

Mr R de Bonford
Aberfoyle Resources Limited
PO Box 952
BURNIE TAS 7320

REMARKS

LAKE MARGARET
NEWTON CRACK PROSPECT
Rock CHIPS

RESULTS

TO

RESULTS

TO

AUTHORISED OFFICER

0072

ANALABS

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

131073

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.08079

15/07/91

13203

1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au:1	Au:5	Ba	As	Cr
1	565870	11	<5	82	<0.5	-	-	570	<2	<5
2	565871	80	10	71	<0.5	-	-	670	9	20
3	565872	81	10	65	<0.5	-	-	800	5	5
4	565873	54	<5	100	<0.5	-	-	560	6	6
5	565874	44	<5	153	<0.5	-	-	230	8	<5
6	565875	31	90	170	1.0	<0.008	-	1200	60	15
7	565876	17	17	16	<0.5	<0.008	-	520	3	<5
8	565877	23	8	17	<0.5	-	-	420	2	<5
9	565878	33	141	123	1.5	0.015	0.014	870	15	6
10	565879	47	64	17	<0.5	-	-	5000	8	<5
11	565880	54	<5	28	<0.5	-	-	1600	3	8
12	565881	39	6	44	<0.5	-	-	1250	2	50
13	565882	17	16	13	<0.5	-	-	450	<2	<5
14	565883	183	342	89	<0.5	-	-	270	970	620
15	565884	221	123	79	<0.5	-	-	330	1300	510
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	0.008	0.008	10	2	5
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
25	METHOD	GA101	GA101	GA101	GA101	GG309	GG309	GX401	GX401	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

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131974

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.08079

15/07/91

13203

2 OF 2

TUBE No.	SAMPLE No.	Zr	Ti	Ti:Zr					
1	565870	250	3650	14.60					
2	565871	170	3150	18.53					
3	565872	210	3100	14.76					
4	565873	250	3800	15.20					
5	565874	240	3350	13.96					
6	565875	270	2100	7.78					
7	565876	170	1800	10.59					
8	565877	190	2300	12.10					
9	565878	190	2650	13.95					
10	565879	260	2050	7.88					
11	565880	260	1750	6.73					
12	565881	150	2850	19.00					
13	565882	240	2550	10.62					
14	565883	<5	480	-					
15	565884	60	930	15.50					
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	5	50	0.01					
24	UNITS	ppm	ppm	%					
25	METHOD	GX401	GX401	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



ANALABS

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

131075

Analabs - A Division of Incharge Inspection & Testing Services

Phone (004) 31 6837

14 Thirkell St. Copee Tas 7320

Fax No. (004) 31 8890

ANALYTICAL REPORT No. 100560.60.07859

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

INVOICE TO:

Aberfoyle Resources Limited
Exploration Division
P.O. Box 952
Burnie Tasmania 7320

ORDER No.

PROJECT

11524

DATE RECEIVED

RESULTS REQUIRED

26/03/91

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

04/04/91

1

1

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

562358

RD Prep: 6P009,6P011,6P018

Cu,Pb,Zn,Ag,Bi,Cd,Co,Ni,As,Cr,Fe,Mn,Mo/GA101

562358

RD Prep: 6P009,6P011,6P018

Au/66309,Au/RAW

562358

RD Prep: 6P009,6P011,6P018

Cu,Pb,Zn,Ag,Cd/GA104

REMARKS

RESULTS

Mr R. de Bomford
Aberfoyle Resources Limited
Exploration Division
P.O. Box 952
Burnie Tasmania 7320

TO

MASSIVE SULPHIDE BOULDER
HOSTED BY ANDESITIC MASS
FLOW BRECCIA
NEWTON CREEK SPILLWAY

RESULTS

TO

380026 E
5358316 N

1:25000 'OCEANA'

RESULTS

TO

AUTHORISED OFFICER

0070

ANALABS

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

131076

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

1.00560.60.07859

04/04/91

11524

1 OF 2

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Bi
1	562358	440	500	>5000	31.60	>10000	23.00	>20.0	264.0	<10
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	25	5	0.01	5	0.01	0.5	2.5	10
24	UNITS	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm
25	METHOD	GA101	GA104	GA101	GA104	GA101	GA104	GA101	GA104	GA101

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

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0076

ANALABS

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

13107

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.07859

04/04/91

11524

2 OF 2

TUBE No.	SAMPLE No.	Cd	Cd	Au					
1	562358	>1000	1439.0	1.020					
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	1	2.5	0.008					
24	UNITS	ppm	ppm	ppm					
25	METHOD	GA101	GA104	GG309					

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

AUTHORISED OFFICER



0077

131078

APPENDIX 5

0078



EXPLORATION GEOSCIENCE

27 8

131079

51 Delhi Rd.
North Ryde, NSW
Australia

PO Box 136
North Ryde
Australia 2113

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To: Robert Gibson

From: Graham Cow / Judy Dan

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Uni. of Tasmania

Date: 27/8/91
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Dear Robert

Following are results of the galena analyses from the Anthony Rd - Spellicore. A report will follow later.

Briefly the data plot in two populations (note check (R) analyses) - one between Hellyer / Que River and Rosebery & one with the Hellyer signature. I will comment on the significance of these results in ~~our~~ report. In the interim if you have any queries please contact either Judy or myself.

Cheers.

Graham Cow

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TABLE 1. LEAD ISOTOPE DATA FOR ANTHONY ROAD SPILLWAY GALENAS AND GALENA FROM VOLCANIC MASS FLOW BRECCIA IN CYC

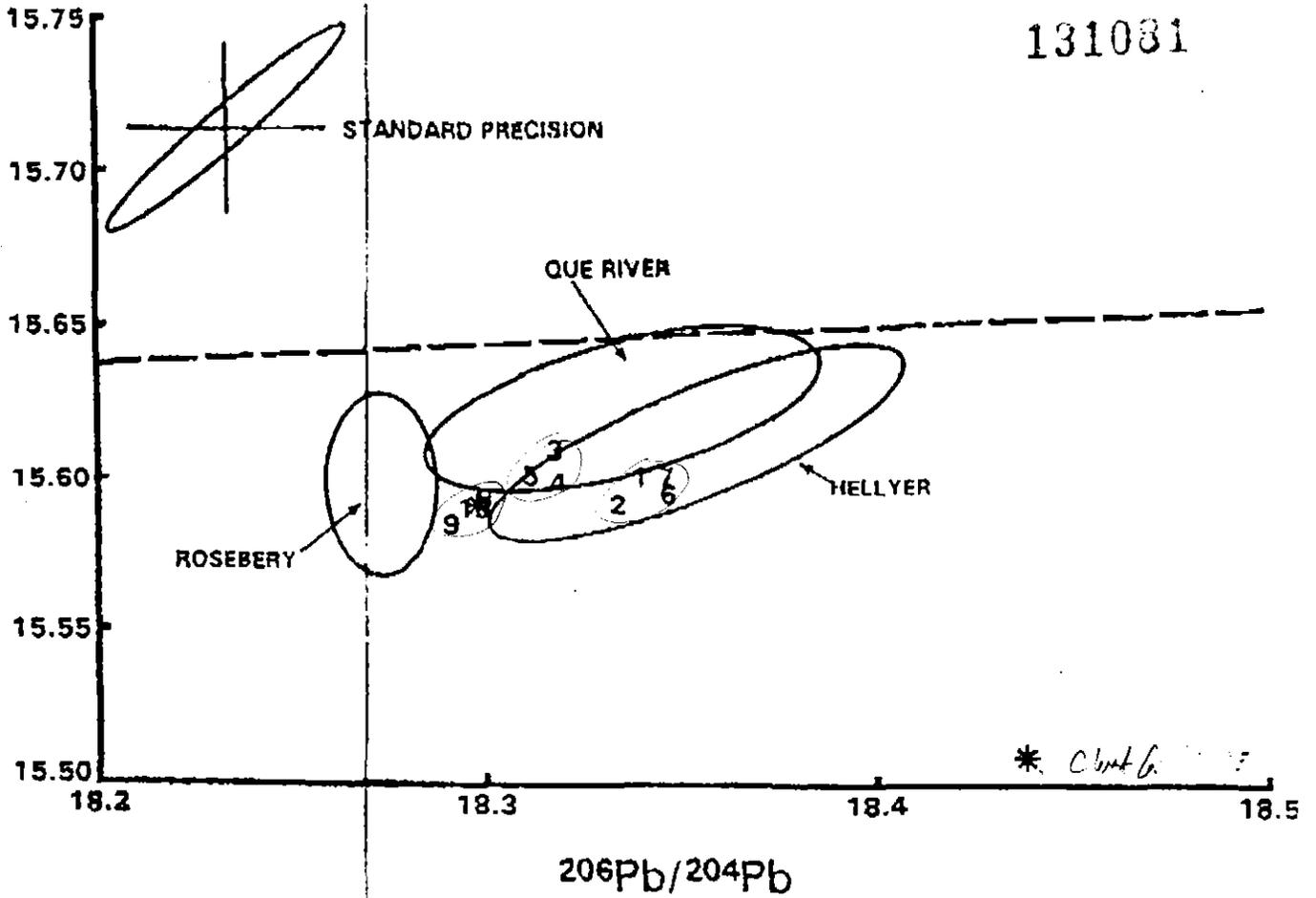
131080

Sample	$\frac{206Pb}{208Pb}$	$\frac{207Pb}{208Pb}$	$\frac{206Pb}{204Pb}$	$\frac{207Pb}{204Pb}$	$\frac{208Pb}{206Pb}$	Pb(ppm)
ANTHONY ROAD SPILLWAY BRECCIA						
1 M.S. CLAST 1	2.0769	0.8507	18.338	15.601	38.128	
2 M.S. CLAST 1R	2.0779	0.8504	18.334	15.592	38.087	
3 M.S. CLAST 2	2.0809	0.8522	18.318	15.510	38.118	
4 M.S. CLAST 3	2.0798	0.8515	18.319	15.599	38.100	
5 M.S. CLAST 4	2.0809	0.8520	18.312	15.601	38.104	
6 M.S. CLAST 5	2.0772	0.8500	18.347	15.595	38.110	
7 M.S. CLAST 5R	2.0782	0.8504	18.348	15.601	38.127	
8 M.S. CLAST 6	2.0800	0.8521	18.300	15.594	38.084	
9 M.S. CLAST 7	2.0802	0.8521	18.291	15.588	38.048	
10 M.S. CLAST 7R	2.0803	0.8521	18.297	15.590	38.063	
	2.0802	0.8521	18.298	15.591	38.062	<i>dis regard</i>
	<i>0.002</i>		<i>0.002</i>	<i>0.002</i>	<i>0.01</i>	

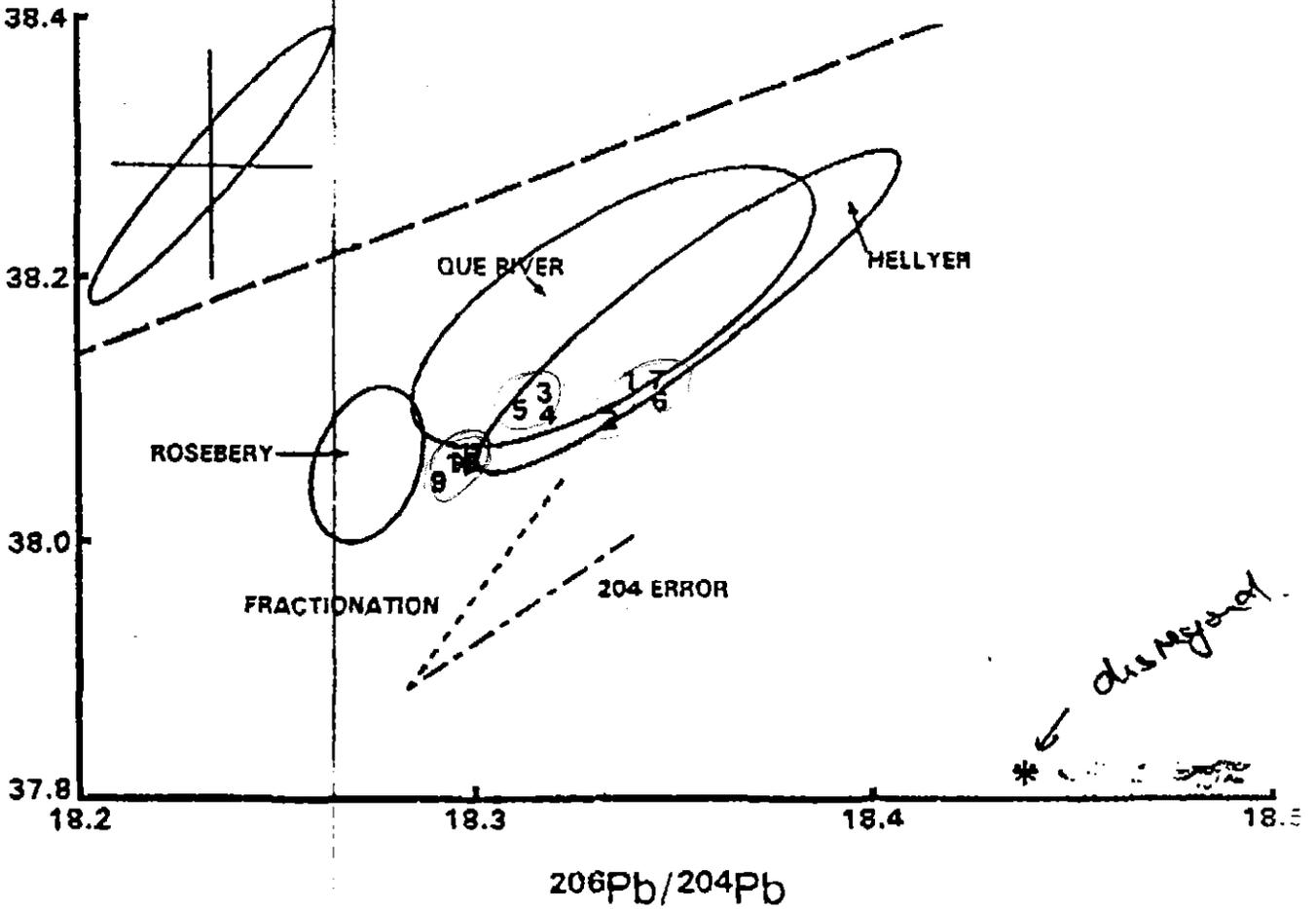
ALL SAMPLES ARE GALENAS
 SAMPLE NUMBER PREFIXES REFER TO PLOTTED POINTS IN FIGURES

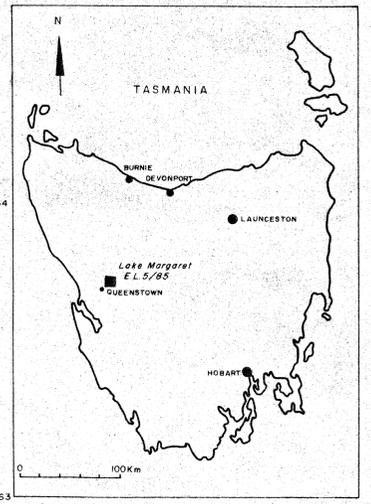
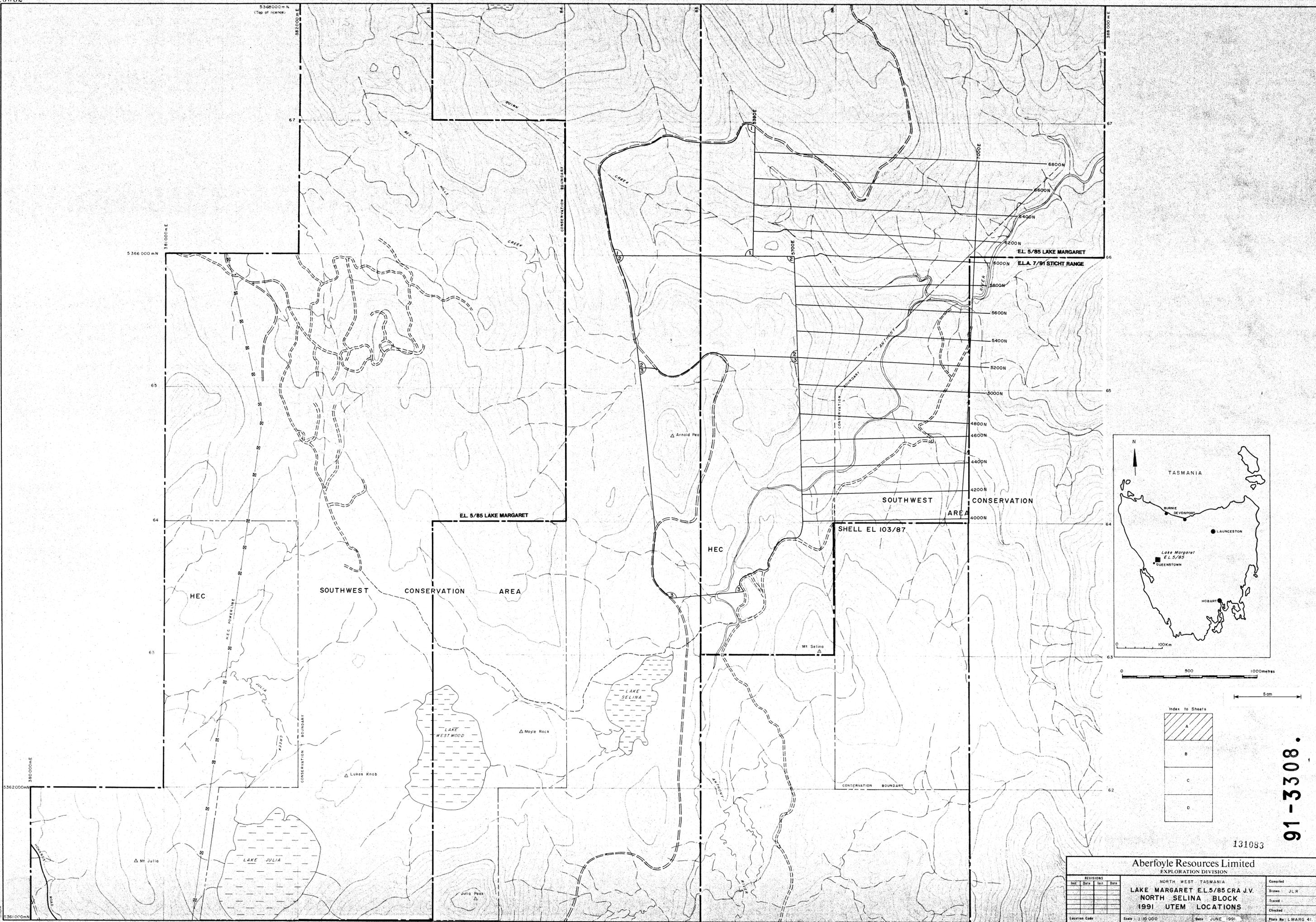
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131031



208Pb/204Pb





0 500 1000metres

5 cm

Index to Sheets

A
B
C
D

131083

91-3308.

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EXPLORATION DIVISION

NORTH WEST TASMANIA
LAKE MARGARET EL 5/85 CRA J.V.
NORTH SELINA BLOCK
1991 UTEM LOCATIONS

REVISIONS			
Ind.	Date	Init.	Date

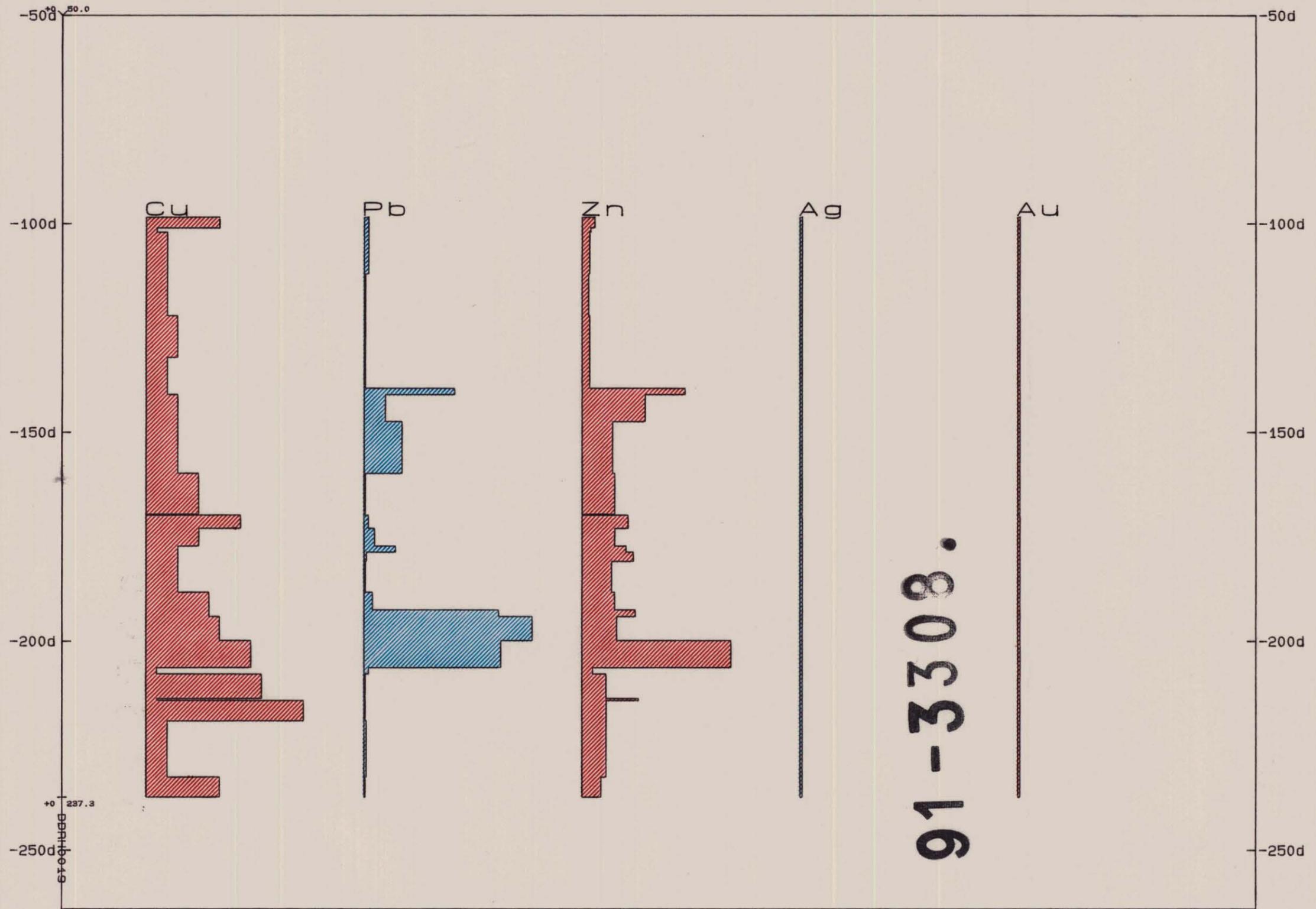
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Drawn: JLR
Traced: _____
Checked: _____

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 N: .0
 RL: -264.0 -50.0
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 Backward extent: 10.0
 Section Strike: 90.0
 Section Length: 285.0
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 PCF file: sh1000rh19.pcf
 PLOTfile: 002.plt

DRILL HOLE LEGEND - RHS:
 * HISTOGRAM *
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 Units per mm: 2.000
 Max dist in mm: 50
 gch Pb (ppm)
 Base in mm: .000
 Units per mm: 10.000
 Max dist in mm: 50
 gch Zn (ppm)
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 Base in mm: .000
 Units per mm: .008
 Max dist in mm: 50

DRILL HOLE LEGEND - LHS:



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Init. Date	Init. Date

TASMANIA
 LAKE MARGARET E.L.5/85
 DDH RH-19
 GEOCHEMICAL PROFILES

Compiled: RdeB
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 Traced:
 Checked: SMR
 Plate No.: LMARG 43

Location Code: Scale: 1 : 1000 Date: 01/10/91

