Aberfoyle Resources Limited

Exploration Division

ACN 004 664 108

Exploration Licence 3/95

Hatfield River

Tasmania

Final Report

Volume 1 of 1

Prepared by:

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Geologist

Endorsed by:

for **A.M. Hespe**

Manager Base Metals

tribution

erfoyle - Burnie (1/3)

erfoyle - Melbourne (2/3)

neral Resources Tas. (3/3)

700002

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Appendix 1	Block 1: surface EM - survey results
Appendix 2	Block 1: soil geochemistry
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1.0 Summary

The potential for economic VHMS mineralisation in prospective Mt. Charter Group volcanics beneath post-Ordovician cover rocks on EL 3/95, north and northeast of the Hellyer Mine, has been investigated by surface TDEM surveys and limited soil geochemistry.

No targets worthy of follow-up were located, and no further work is proposed on this E.L. It is therefore recommended that EL 3/95, Hatfield River be relinquished.

2.0 Introduction

Exploration Licence 3/95, Hatfield River, comprises three separate blocks with a total area of 26 Sq. km, and is located north and northeast of the Hellyer Mine, adjoining Aberfoyle's E.L. 106/87 (Fig. 1). The licence was granted to Aberfoyle Resources Ltd. on 23rd June 1995.

The area was considered to be prospective for volcanic hosted massive sulfide (VHMS) mineralisation in felsic volcaniclastic sequences of the Southwell Subgroup, Mt. Cripps Subgroup, and possibly the Que-Hellyer Volcanics which are largely covered by Tertiary basalt (Blocks 1 and 2) and/or Cambro-Ordovician siliclastic conglomerates (Block 3).

This report describes exploration completed by Aberfoyle Resources on the Hatfield River licence for the period June 1995 to May 1996.

700606

SOPHIA

LAND TENURE INDEX SERIES

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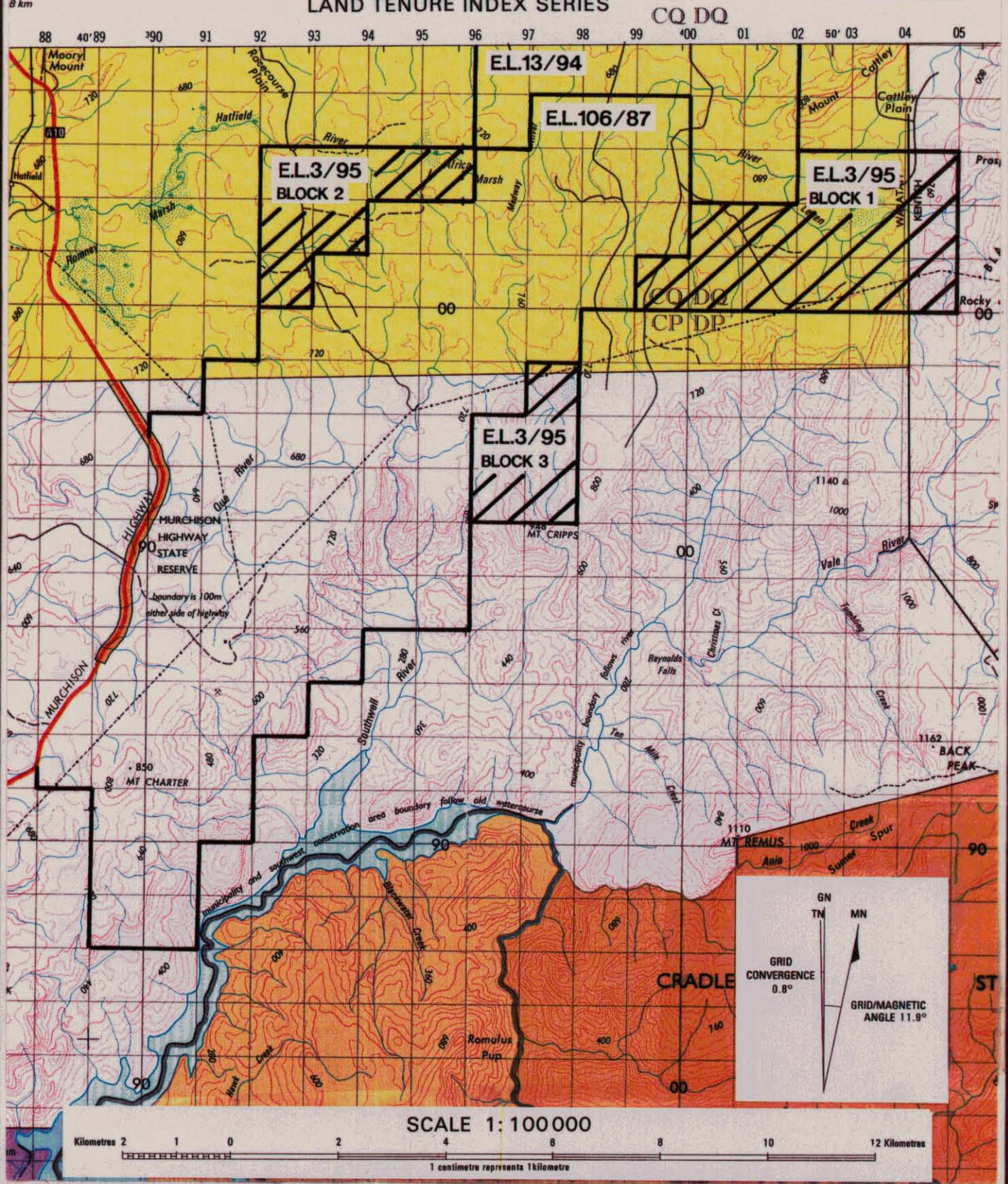


Aberfoyle Resources Limited

EXPLORATION DIVISION

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA

HATFIELD RIVER E.L.3/95

AREA FOR RELINQUISHMENT MAY 1996

Compiled :	RdeB
Drawn :	RdeB
Traced :	
Checked :	AMcN
Plate No. :	HR1

Location Code :

Scale : 1 : 100000

Date : MAY 1996

1511

3.0 Previous exploration

Blocks 2 and 3 (Fig. 1), and the western part of Block 1, initially formed parts of E.L. 2/70 and 15/73, granted to Aberfoyle Resources, and amalgamated into E.L. 106/87 under the Hellyer Mine Agreement Ratification Act , 1987, in February 1988. These areas were then dropped as part of statutory relinquishments in 1990, and 1993. The results of modern exploration of these areas, restricted to regional scale mapping and rock-chip sampling, have been summarised by McNeill (1990) and Wallace (1992).

A single Diamond Drill Hole (SBDP-6) was collared on Racecourse Road, in the northwest corner of Block 2, as part of the Tasmania Department of Mines Mount Read Volcanics Project, sub-basalt drilling programme. This hole intersected Devonian Bell shale correlate beneath 226 m of Tertiary Basalt (Baillie and Green, 1988).

The eastern part of Block 1 previously formed part of Billitons E.L. 39/83, and was relinquished in 1988 following mapping that indicated the area is underlain by Tertiary basalt and Cambro-Ordovician to Devonian sediments (Randell, 1988).

700008

4.0 Work completed.

4.1 Block 1.

4.1.1 Introduction

Correlates of the VHMS prospective Southwell and Mt. Cripps Subgroups are interpreted to underlie Tertiary basalt in the southwest corner of this block. These lithologies are thought to be faulted against Ordovician to Devonian sediments, to the east, by the Cattley Fault, a possible northern extension of the Henty Fault Zone. Also, given that tertiary basalt cover is generally <300 m thick in this area, it was considered that conductive VHMS mineralisation of about Hellyer orebody size should be detectable by ground EM at these depths. The Que-Hellyer Corridor EM survey (Richardson, 1996) was therefore extended east onto EL 3/95 to test the prospective volcanics west of the interpreted Cattley Fault.

4.1.2 Surface EM

A total of 4.1 line km of EM data (see Appendix 1 for profiles) was collected on 200m spaced lines, and using three transmitter loops on the adjacent EL 106/87 (see Plates HR2B, and HR2E for loop locations and reading lines).

A Zonge GDP 16 TDEM system, operating at 8 Hz, in reconnaissance mode (vertical component only collected and 50m station spacing) was used for this survey. The resultant data (Appendix 1) was then to be analysed using simple spatial derivative techniques, and if a bedrock conductor (at least a conductor beneath Tertiary basalt cover) was identified then 25 m spaced data using both vertical and horizontal components was to be collected.

This survey resulted in the detection of an anomaly, centred at approximately 9900mE (Hellyer Mine Grid) that was observed on lines 17000, and 17200N, and was inferred to lie off the end of lines 16600-16800N. The anomaly trends north into EL 106/87 with a total estimated strike length of 1.5

km. The anomaly was followed-up by infill EM, and diamond drilling on EL 106/87. No mineralisation was intersected (Richardson, 1996).

4.1.3 Geochemistry

Total and partial digest 'B' horizon soil sampling has been shown to detect blind mineralisation and alteration zones in the Que-Hellyer Volcanics. This technique was therefore considered to have potential to locate mineralisation beneath Tertiary basalt cover. A regional soil sampling programme on adjacent ELs was extended onto the Eastern part of Block 1, and over the central part of the surface EM anomaly (see 4.1.2), as a further test of the volcanics west of the Cattley Fault. Sampling lines are shown on Plate HR2E and results are included as Appendix 2. No anomalies were located on these lines.

4.2 Block 2

4.2.1 Introduction

Correlates of the Southwell Subgroup and possibly the Que-Hellyer Volcanics were interpreted to underlie Tertiary basalt in the southwestern part of this block. Tertiary basalt thicknesses were expected to be <300 m and, as with Block 1, surface EM should be an effective search tool for blind conductive mineralisation of the Hellyer orebody type. The Mackintosh North EM survey (Richardson, 1996) was therefore extended west to cover the interpreted area of subcrop of these volcanics.

4.2.2 Surface EM

A total of 8.2 line km of EM data was collected from three transmitter loops, all situated on E.L. 106/87 (see plates HR2A and HR2B for loop locations and reading lines). Data was collected with the same survey specifications as used for

the Block 1, and profiles are given in Appendix 3. Collection of data with a base frequency of 8 Hz results in a data set with the latest time window at 24.24 mSec, and for this survey is a suitable frequency for penetrating moderately conductive basalt cover. In fact, as the profiles show, there is practically no background signal from the basalt cover at these late times (Appendix 3).

No anomalies attributable to massive sulfide mineralisation were detected, and only variations in basalt cover thickness are affecting the dataset.

4.2.3 Geology

A regional gravity/magnetics interpretation, using the 1993 Helimag survey of E.L. 106/87 and open file data (Richardson, 1994), defined two potential structural targets in the Racecourse Road - African Marsh area, in the northern part of Block 2. However, geological mapping of this area and a sub-basalt geological interpretation (McNeill, 1990) indicate that this area is likely to be underlain by Siluro-Devonian sediments, and that prospective volcanics are likely to be at considerable depth (>1.5 km). These targets are therefore too deep to warrant further exploration.

5.0 Conclusions

Surface EM surveys are now considered to have tested prospective Southwell Subgroup and Mt. Cripps Subgroup volcanics on Blocks 1 and 2 of E.L. 3/95 to a depth of 100-150 m beneath the base of the Tertiary basalt. A single anomaly was located in the western part of Block 1. This anomaly continued north onto E.L. 106/87 and was tested on this E.L. with negative results. No other anomalies worthy of follow-up were detected.

A regional soil geochemical survey over the western part of Block 1 also failed to locate any anomalies.

No work was undertaken on Block 3, however a recent revision of the structural interpretation part of E.L. 106/87, to the north, has downgraded the prospectivity of this area.

The results of this work have provided no encouragement for the deep (>300-450 m) 'pattern' drilling that would be required to fully test these areas. Therefore no further work is proposed and the areas should be relinquished.

References:

Baillie, P.W., and Green, G.R., 1988. Completion report, sub-basalt drilling project hole 6. Unpubl. Rept. Dept. Mines, Tasmania 1988/06.

McNeill, A.W., 1990. Lake Mackintosh, EL 106/87, Tasmania. Report on exploration of areas to be relinquished, February, 1990. Aberfoyle Resources Ltd. Exploration Division, Unpubl. Rept.

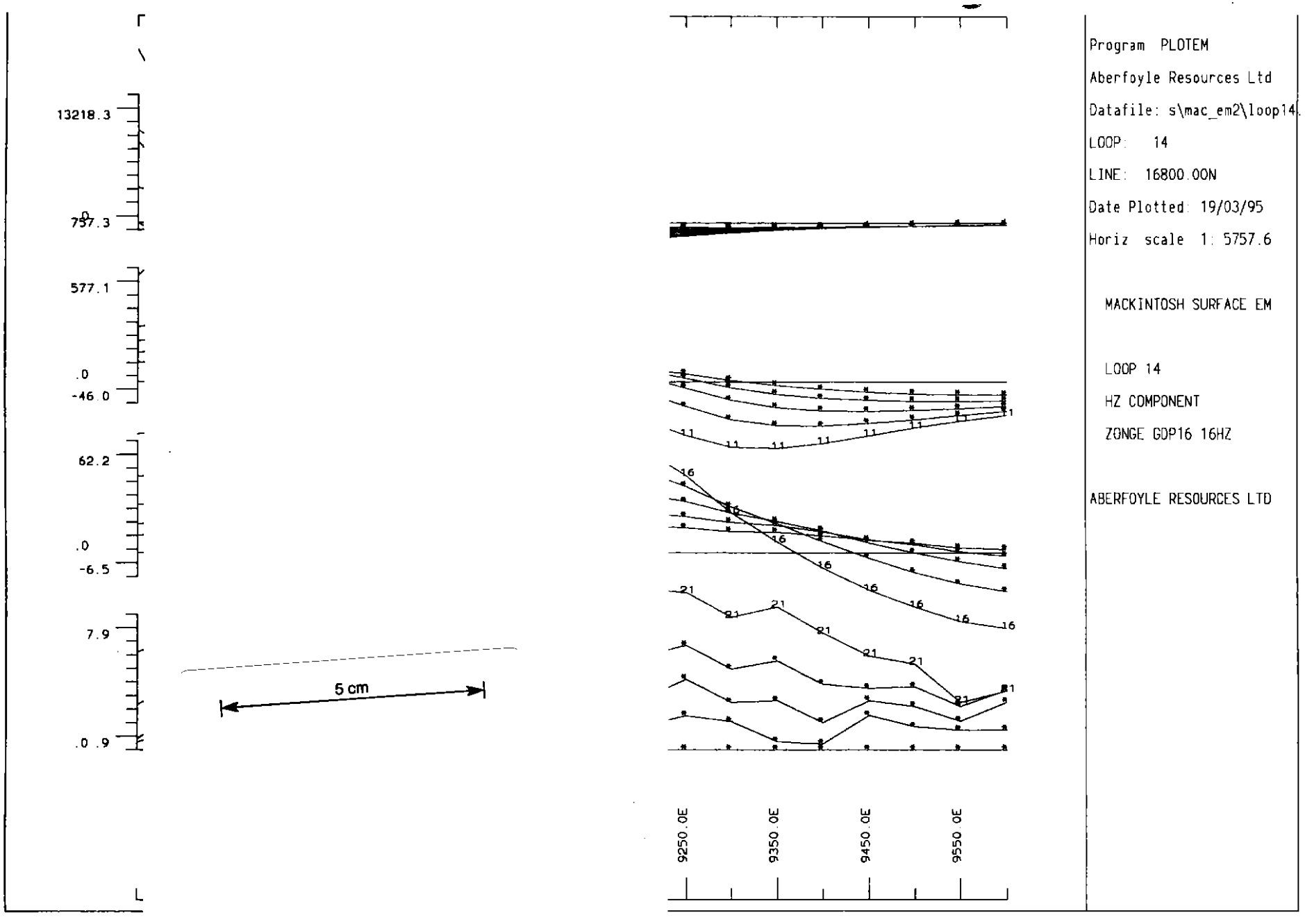
Randell, J.P., 1988. E.L. 39/83, Cattley Range. Partial relinquishment report, Billiton Australia Report No. 08.4107.

Richardson, S., 1994. Exploration Licence 106/87, Lake Mackintosh, Tasmania. Progress report for the period April 1993 - February 1994. Aberfoyle Resources Ltd., Exploration Division, Unpubl. Rept.

Richardson, S., 1996. EL 106/87, Lake Mackintosh, Tasmania. Progress report for the period February 1995 - February 1996. Aberfoyle Resources Ltd., Exploration Division, Unpubl. Rept.

Wallace, D.B., 1992. Tasmania, EL 106/87, Lake Mackintosh. Partial relinquishment report for second statutory relinquishment, February 1993. Aberfoyle Resources Ltd, Exploration Division, Unpubl. Rept.

APPENDIX I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ABERFOYLE RESOURCES LTD

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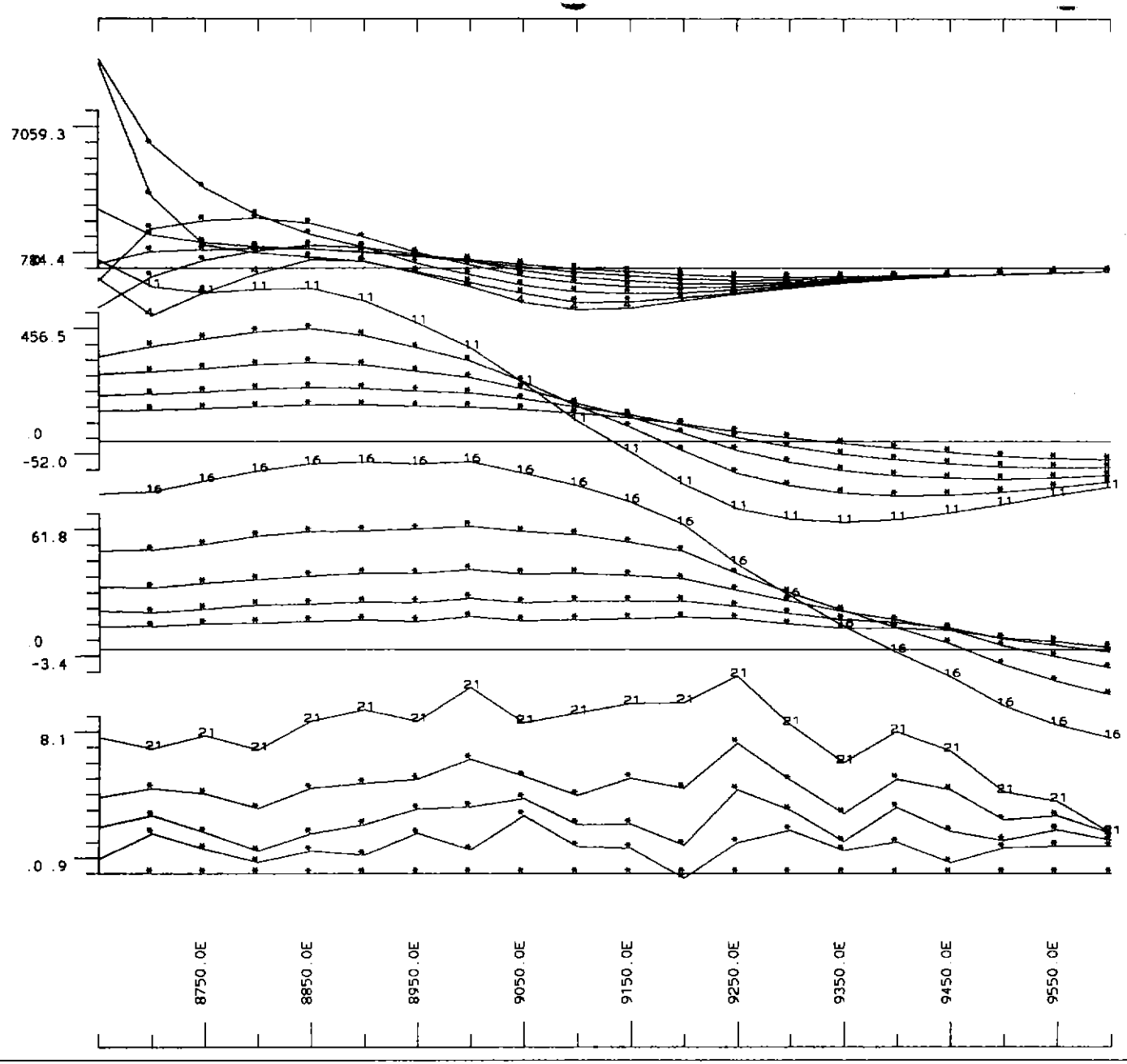

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MACKINTOSH SURFACE EM

LOOP 14

HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

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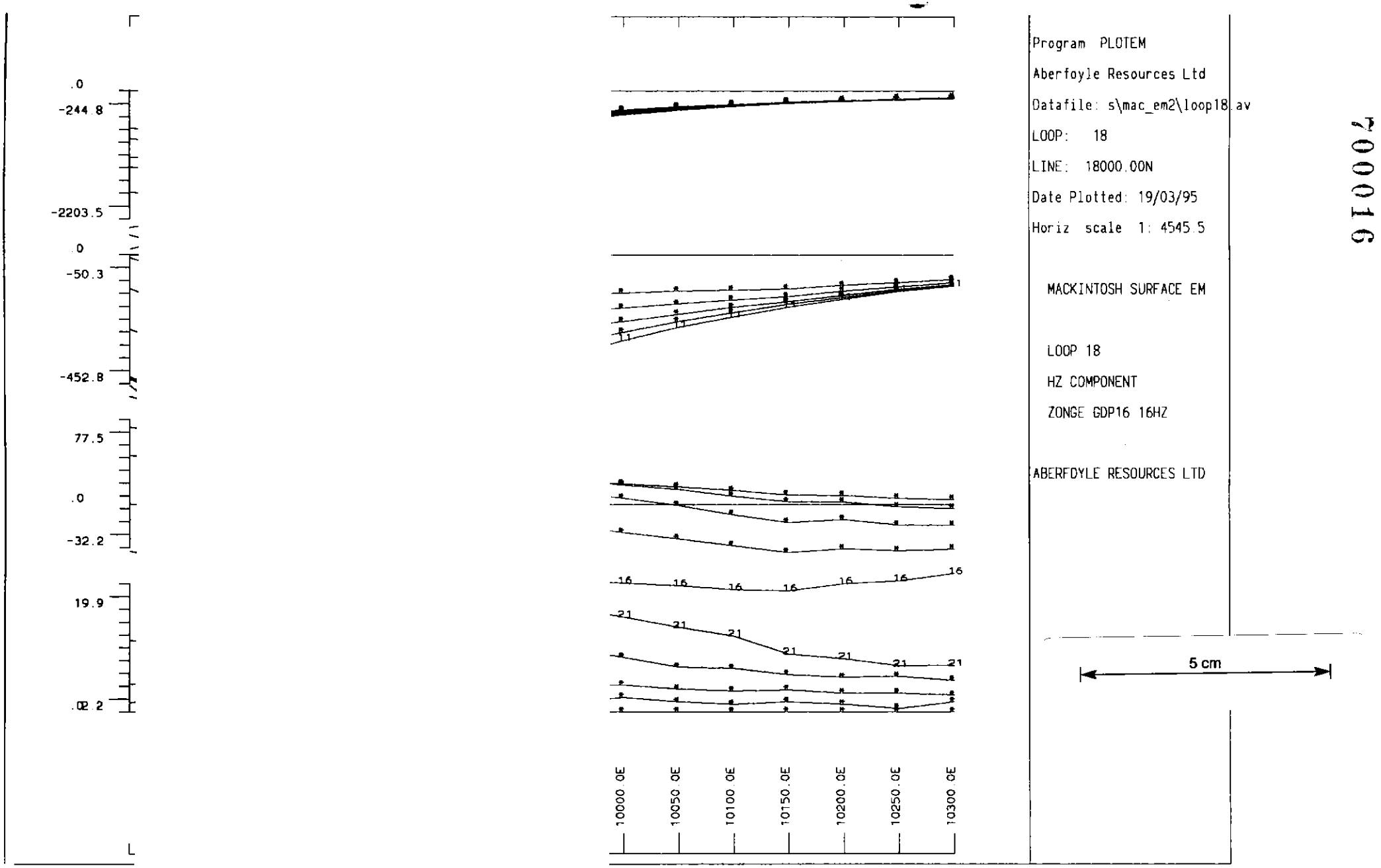
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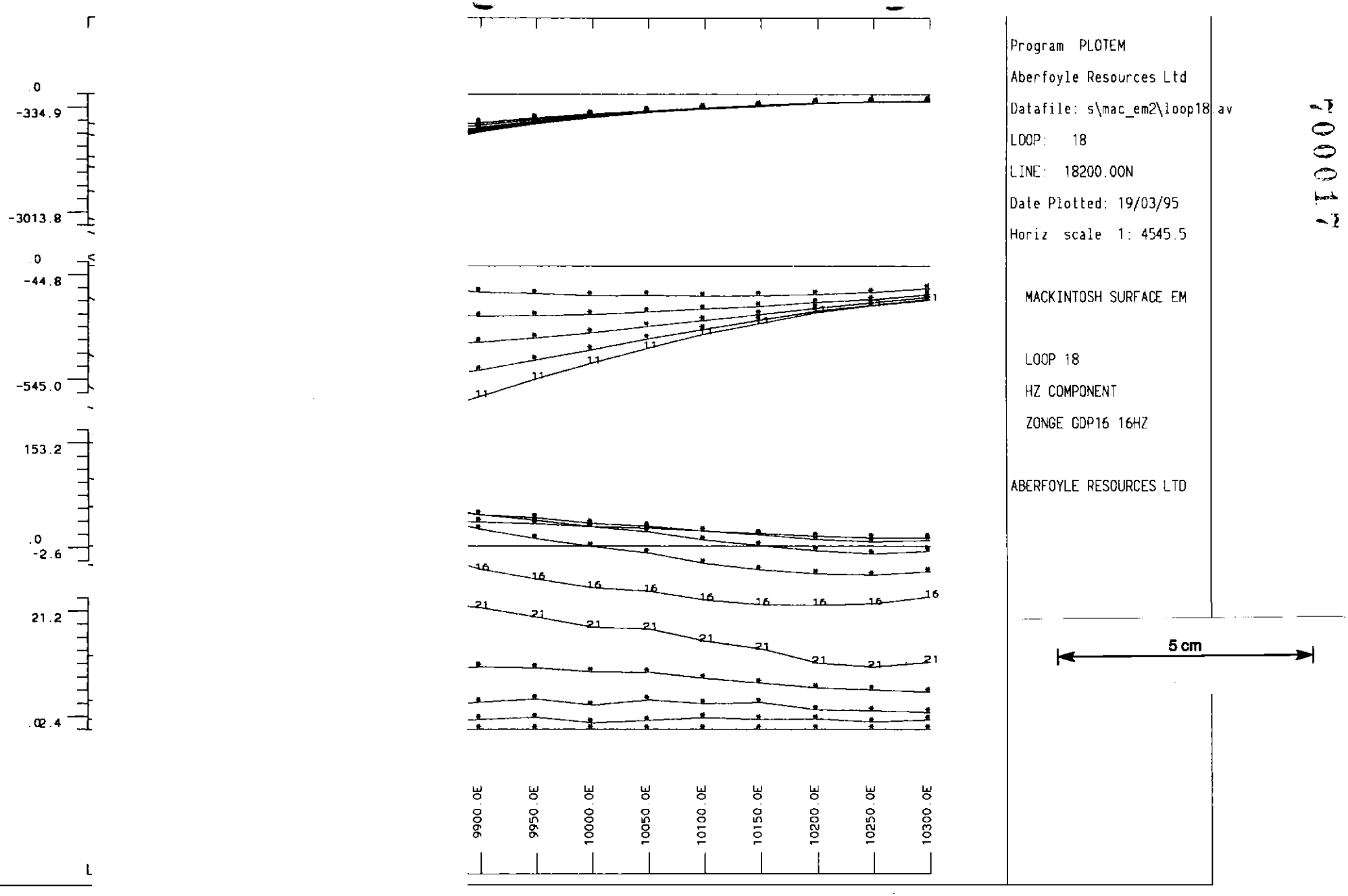
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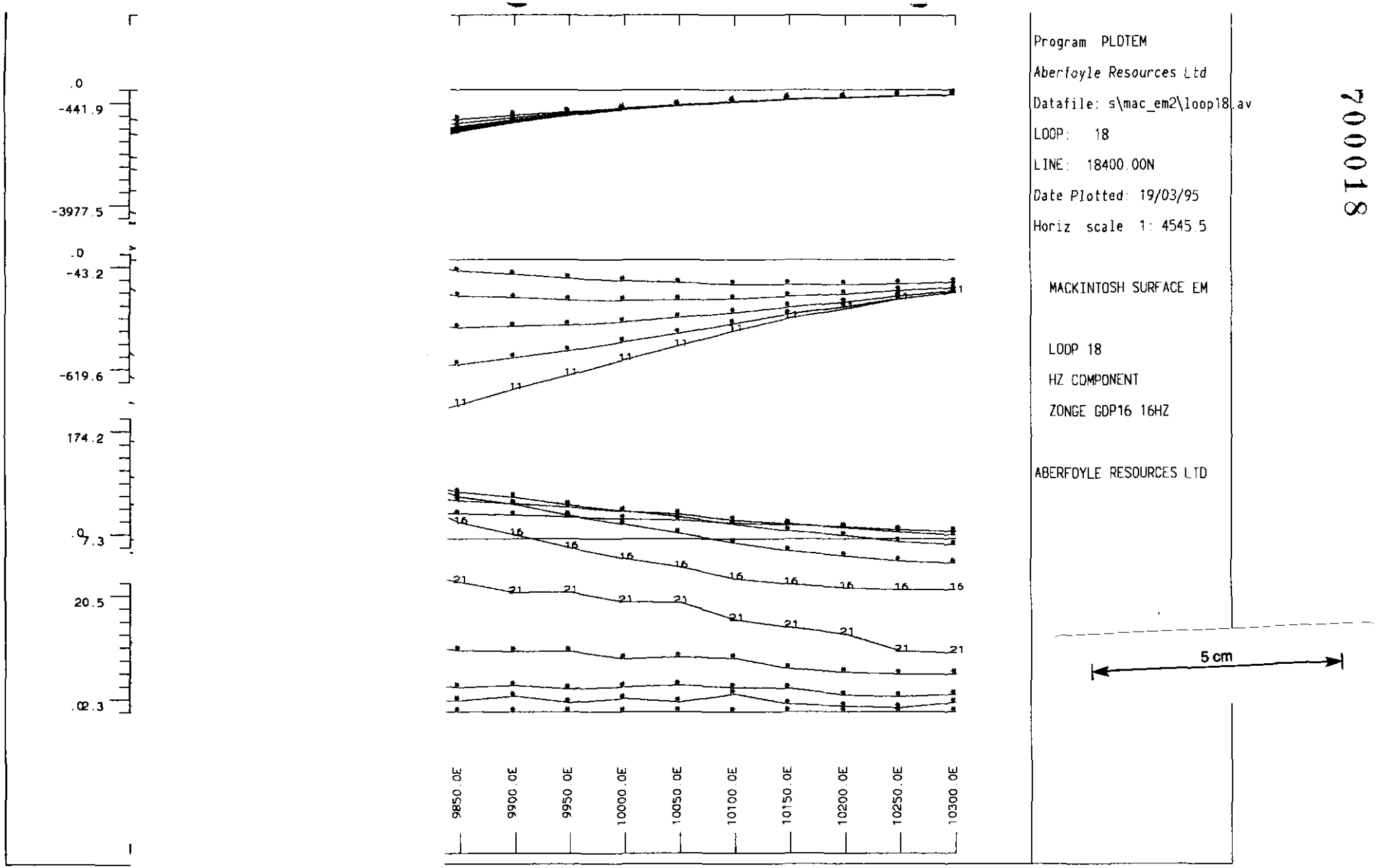
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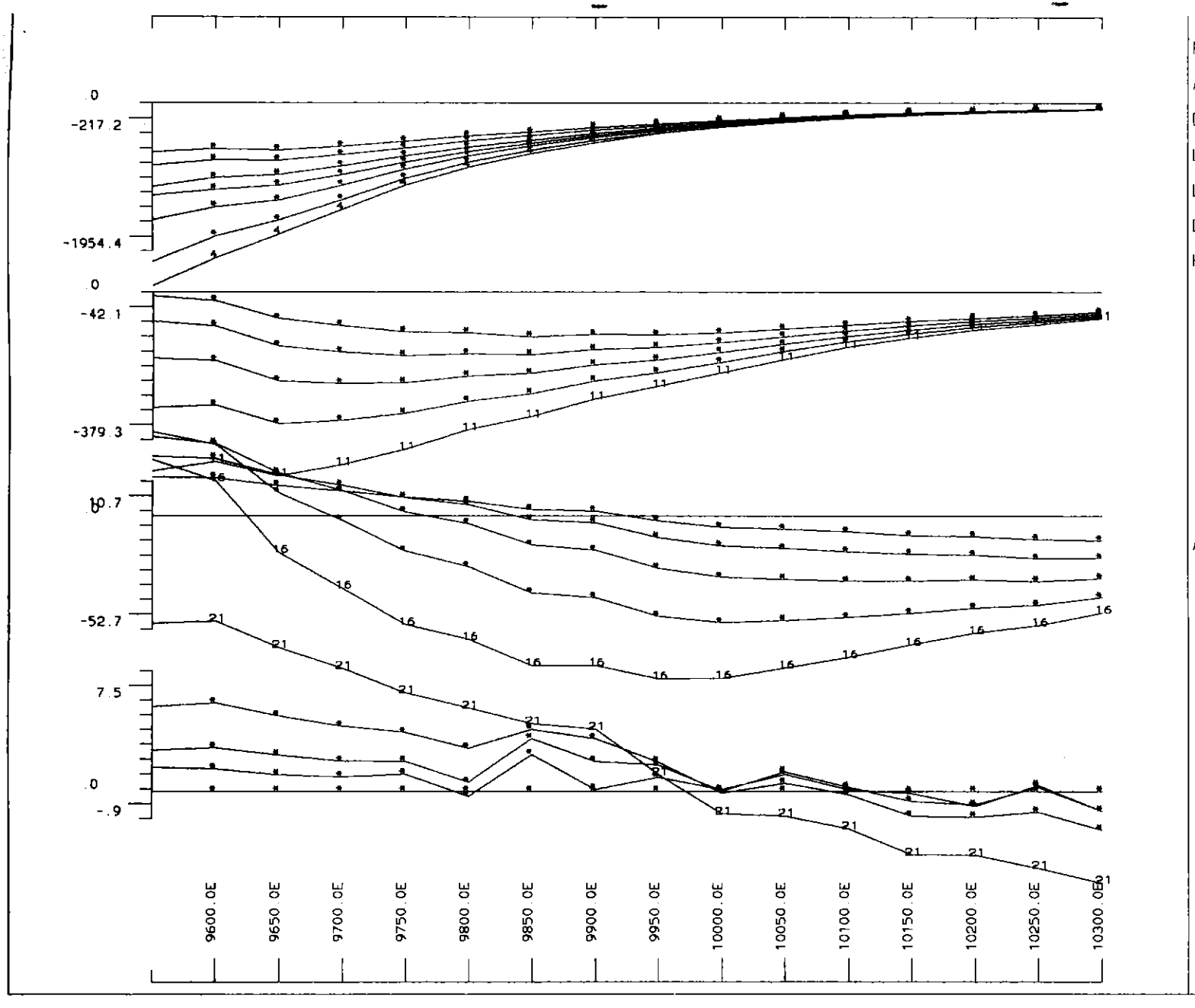

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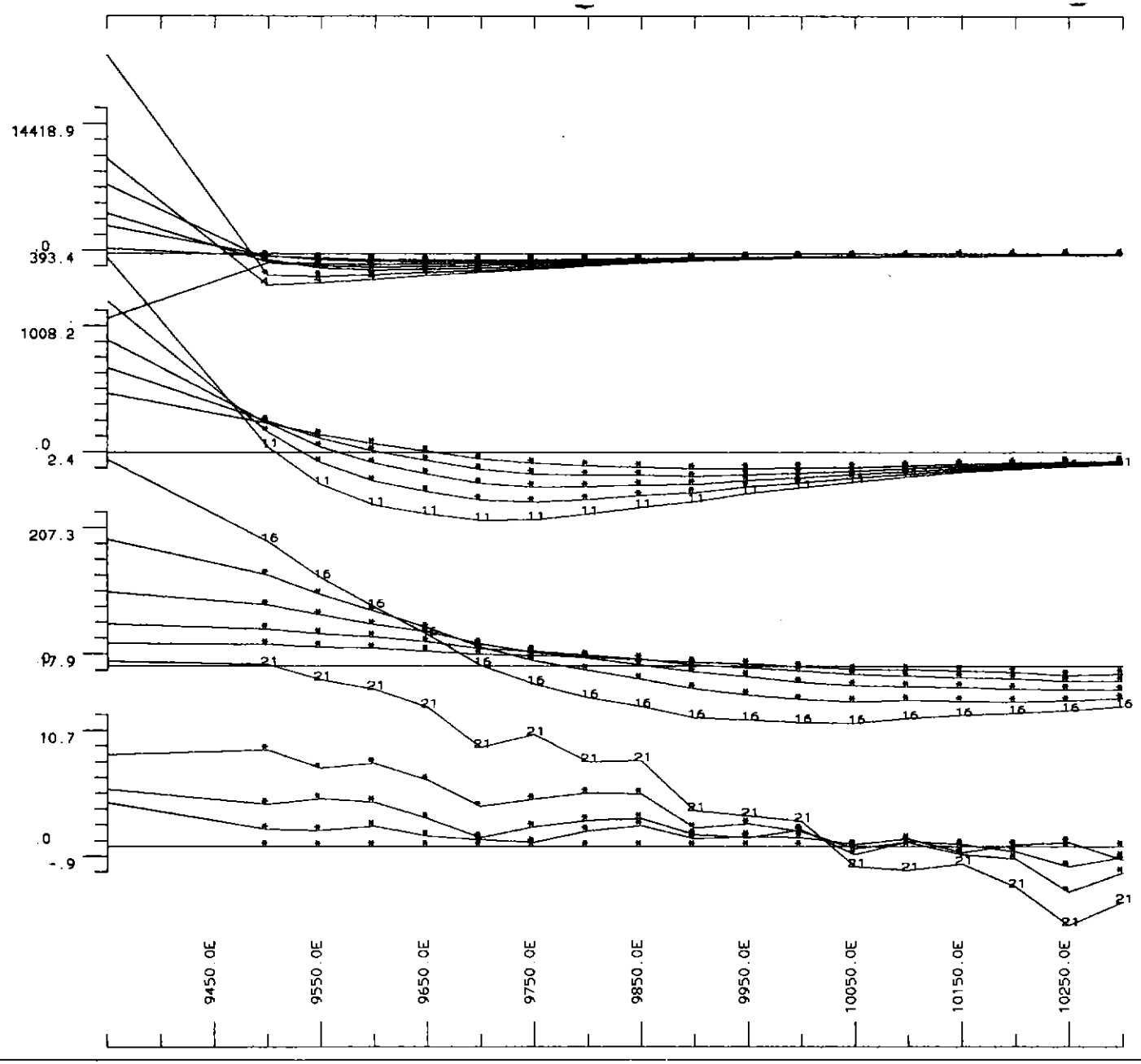

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MACKINTOSH SURFACE EM

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HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

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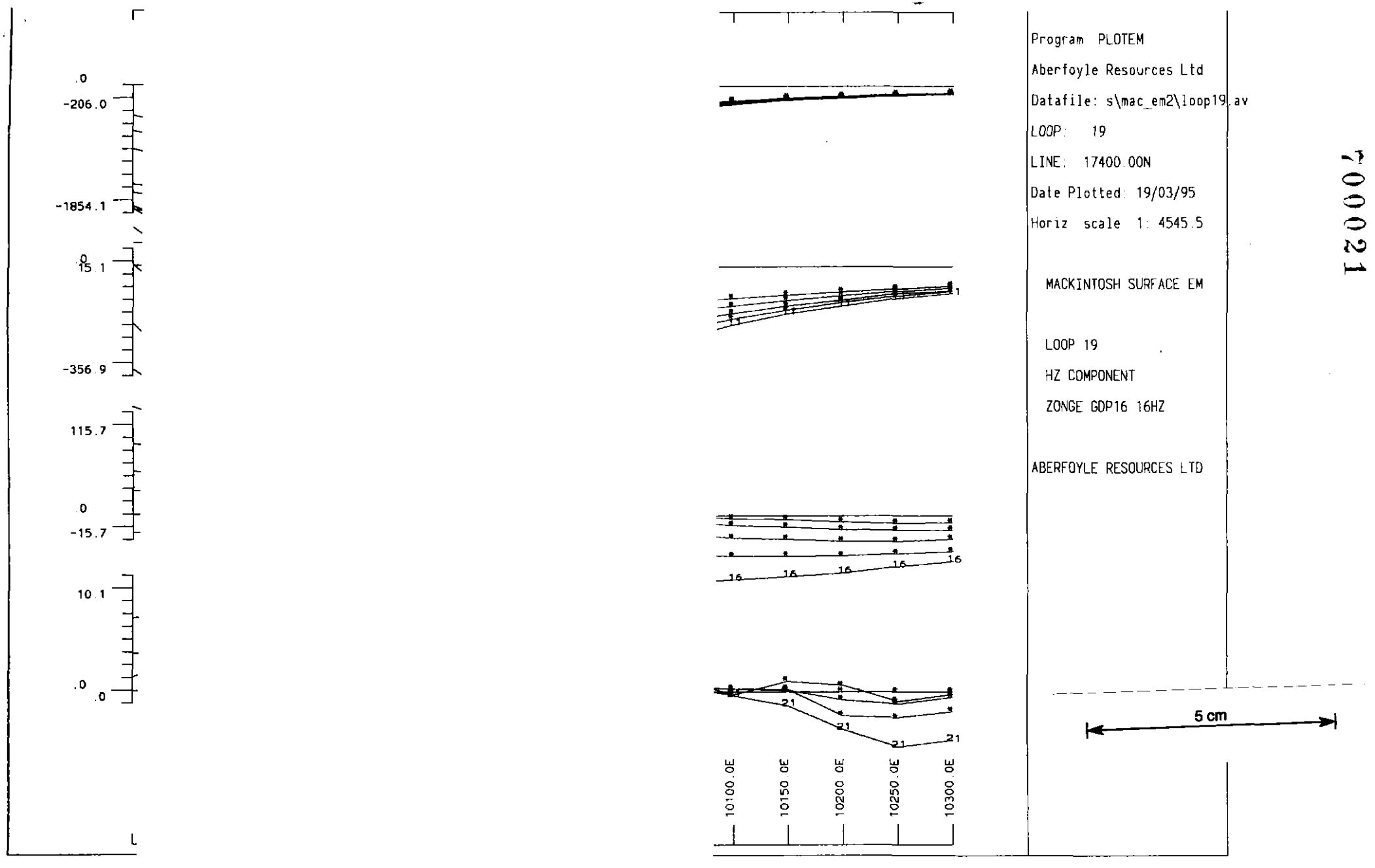
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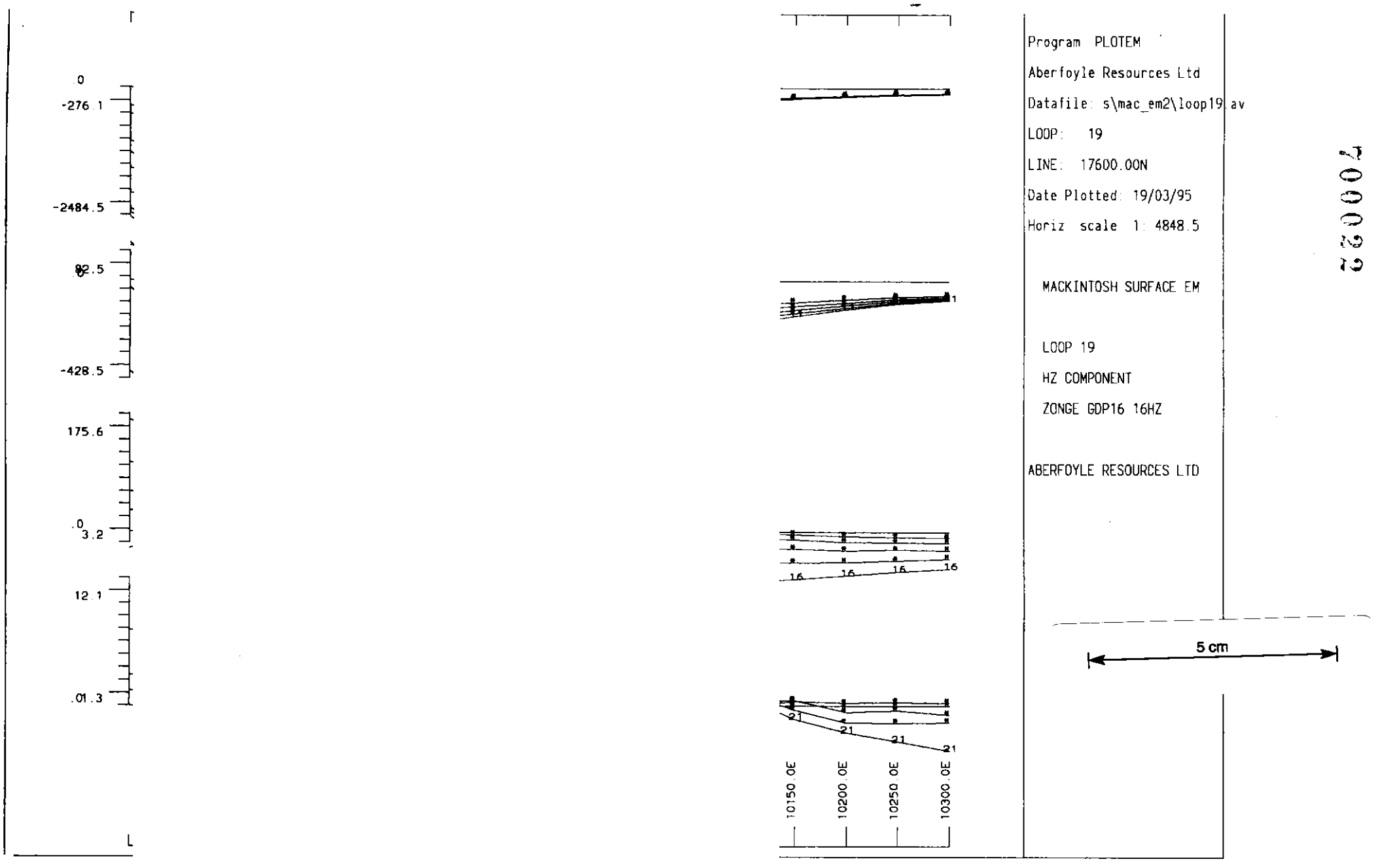
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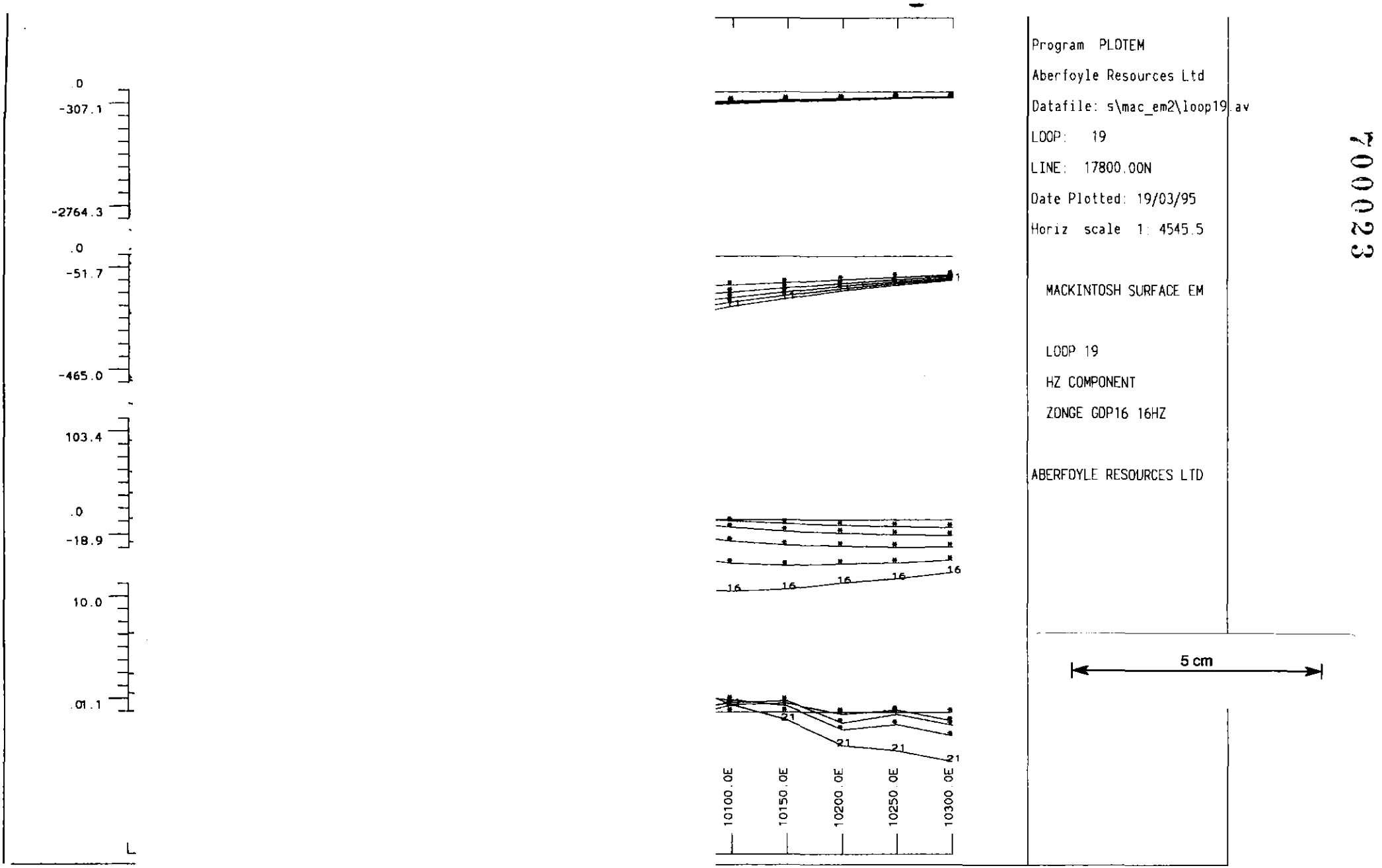
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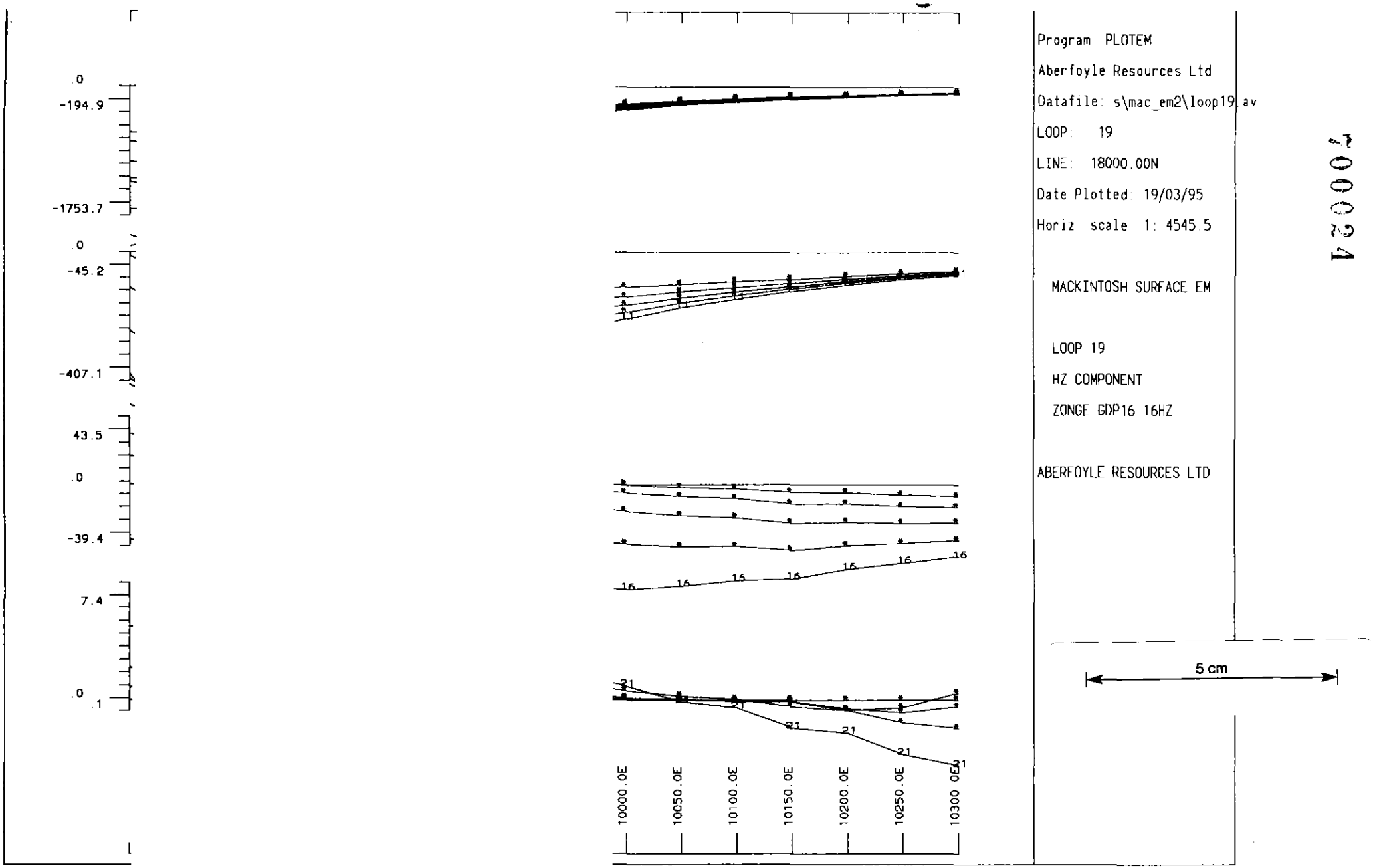
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MACKINTOSH SURFACE EM
LOOP 19
HZ COMPONENT
ZONGE GDP16 16HZ
ABERFOYLE RESOURCES LTD
5 cm
18000.4

APPENDIX II

Sample	Easting Mine Grid	Northing Mine Grid	Cu Total ppm	Pb Total ppm	Zn Total ppm	As Total ppm	Cd Total ppm	Co Total ppm	Sb Total ppm	Ba Total ppm	Ni Total ppm
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827234	9600	16600	59	6	95	8	-5	29	-5	48	188
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827421	9400	17000	56	-5	133	-5	-5	56	-5	104	229
827422	9450	17000	67	7	142	-5	-5	65	-5	106	254
827424	9500	17000	53	-5	125	-5	-5	113	-5	84	247
827425	9550	17000	60	11	87	-5	-5	63	-5	77	206
827426	9600	17000	65	-5	91	-5	-5	61	-5	58	218
827427	9650	17000	66	-5	88	-5	-5	44	-5	75	264
827428	9700	17000	62	-5	100	-5	-5	35	-5	47	184
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827435	10050	17000	57	6	80	-5	-5	40	-5	65	168
827436	10100	17000	56	-5	98	-5	-5	33	-5	49	145
827437	10150	17000	46	-5	68	-5	-5	11	-5	60	197
827438	10200	17000	43	-5	77	-5	-5	9	-5	72	147
827439	10250	17000	43	-5	111	-5	-5	24	-5	107	191
827440	10300	17000	61	-5	106	-5	-5	17	-5	53	219
827488	10200	17600	58	-5	109	5	-5	36	-5	51	195
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827490	10300	17600	48	6	134	7	-5	55	-5	87	147
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827567	10075	18000	14	-5	23	-5	-5	-5	-5	17	41
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827569	10150	18000	55	5	66	-5	-5	-5	-5	70	211

Cu Partial ppb	Pb Partial ppb	Zn Partial ppm	As Partial ppb	Cd Partial ppb	Co Partial ppb	Sb Partial ppb	Ba Partial ppm	Ni Partial ppb
14	-10	0.22	-1	3	97	-1	1.08	320
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-10	-10	0.16	-1	3	34	-1	1.02	306
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-10	-10	-0.05	-1	2	59	-1	1.73	177
14	-10	0.15	1	4	63	-1	1.59	762
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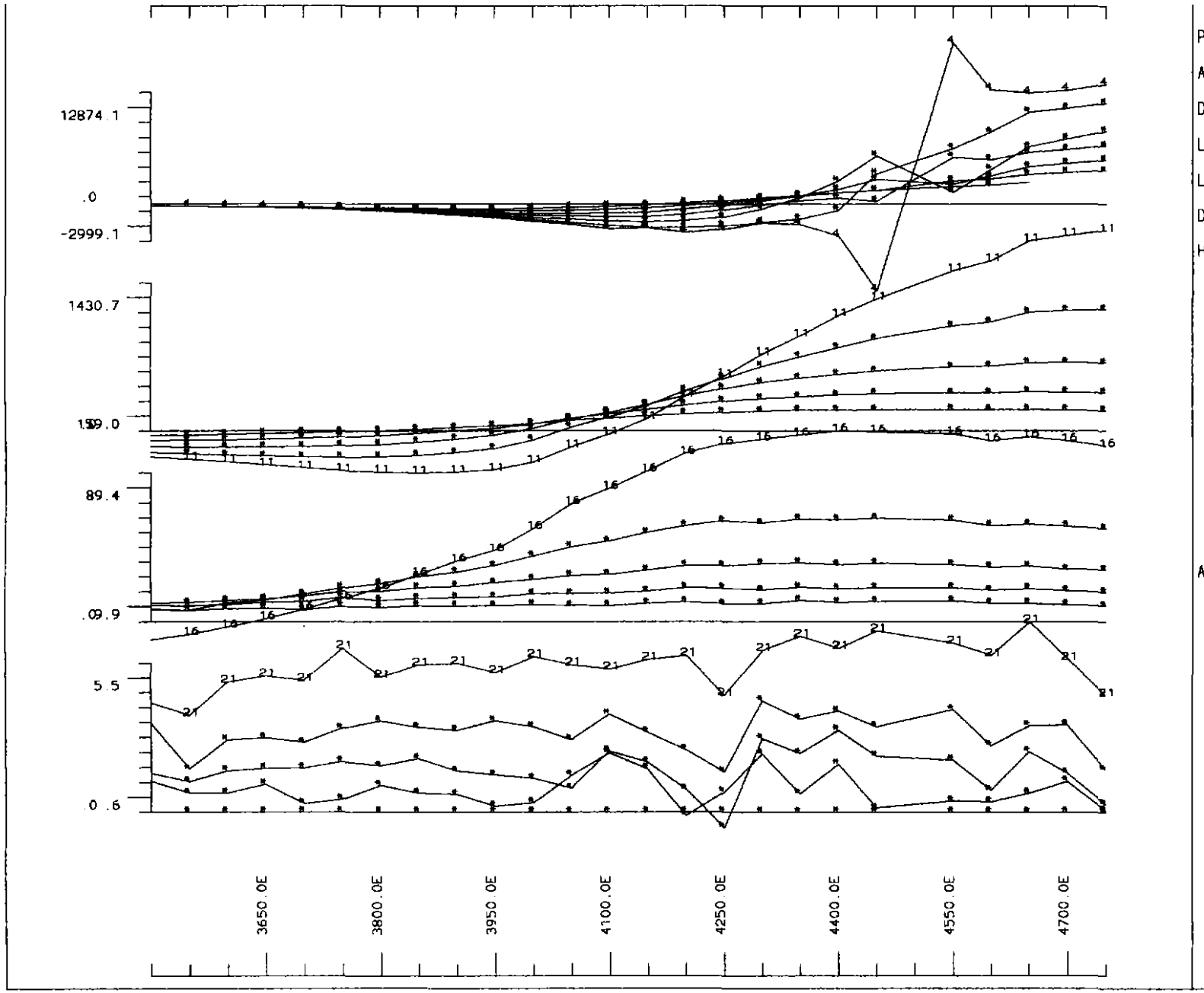
700028

APPENDIX III



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop4.av

LOOP: 4

LINE: 13800.00N

Date Plotted: 10/04/96

Horiz scale 1: 7575.8

MACKINTOSH SURFACE EM

LOOP 4

HZ COMPONENT

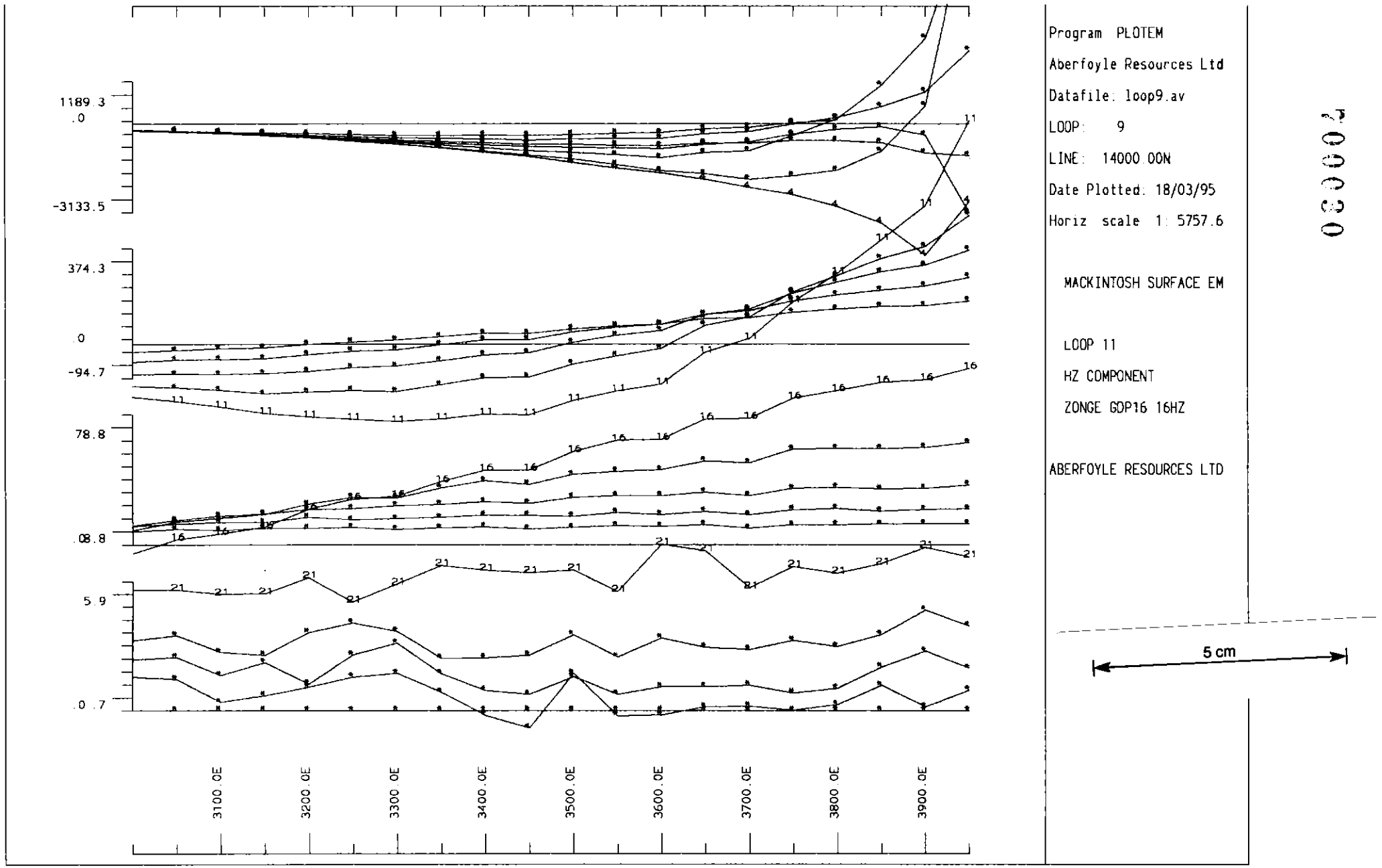
ZONGE GDP16 16HZ

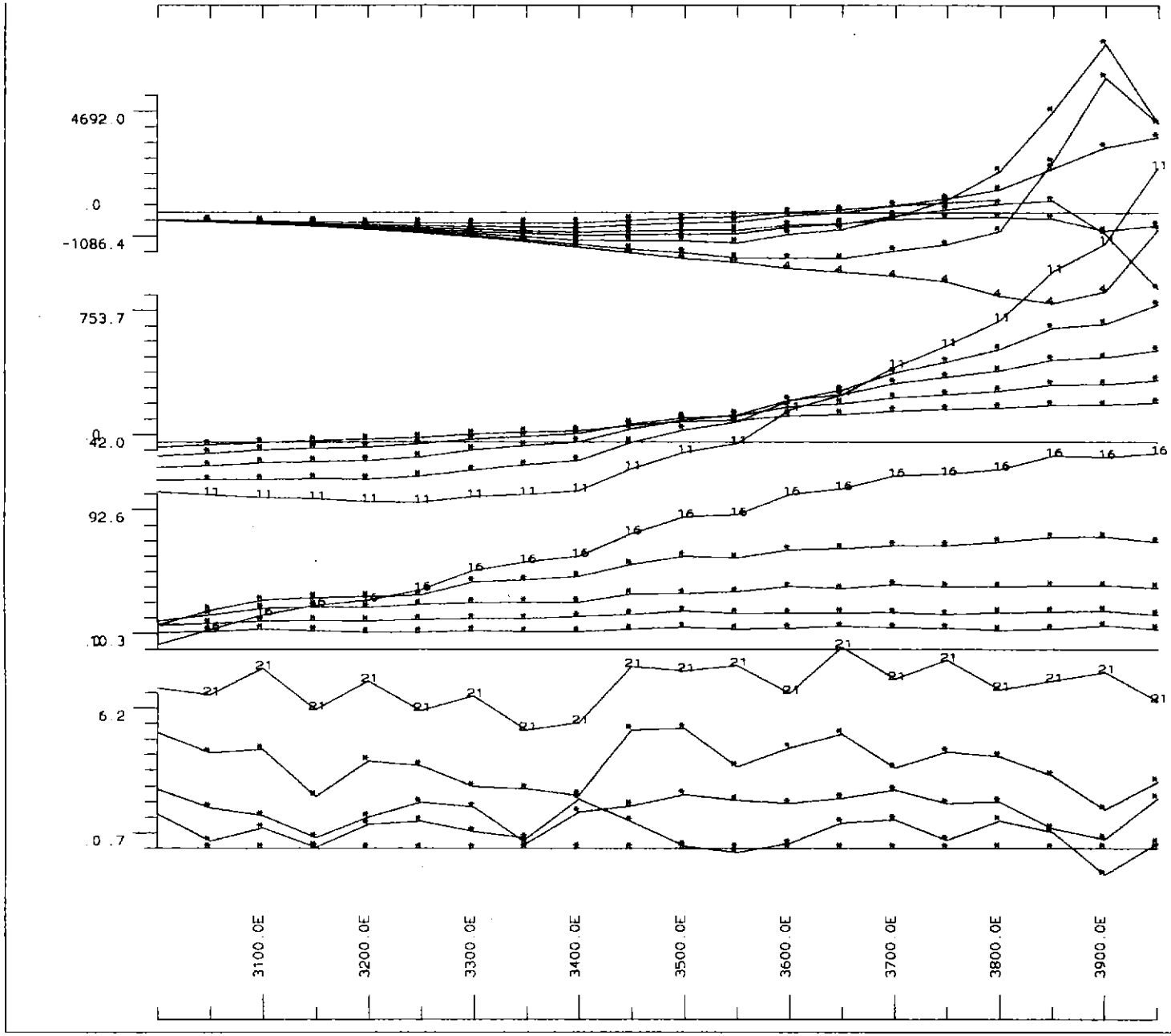
READ/PLOTTED GCC

ABERFOYLE RESOURCES LTD

5 cm

700029


1189.3
.0
-3133.5
374.3
0
-94.7
78.8
.08.8
5.9
.0.7
3100.0E
3200.0E
3300.0E
3400.0E
3500.0E
3600.0E
3700.0E
3800.0E
3900.0E
Program PLOTEM
Aberfoyle Resources Ltd
Datafile: loop9.av
LOOP: 9
LINE: 14000.00N
Date Plotted: 18/03/95
Horiz scale 1: 5757.6
MACKINTOSH SURFACE EM
LOOP 11
HZ COMPONENT
ZONGE GDP16 16HZ
ABERFOYLE RESOURCES LTD
5 cm



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop9.av

LOOP: 9

LINE: 14200.00N

Date Plotted: 18/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 11

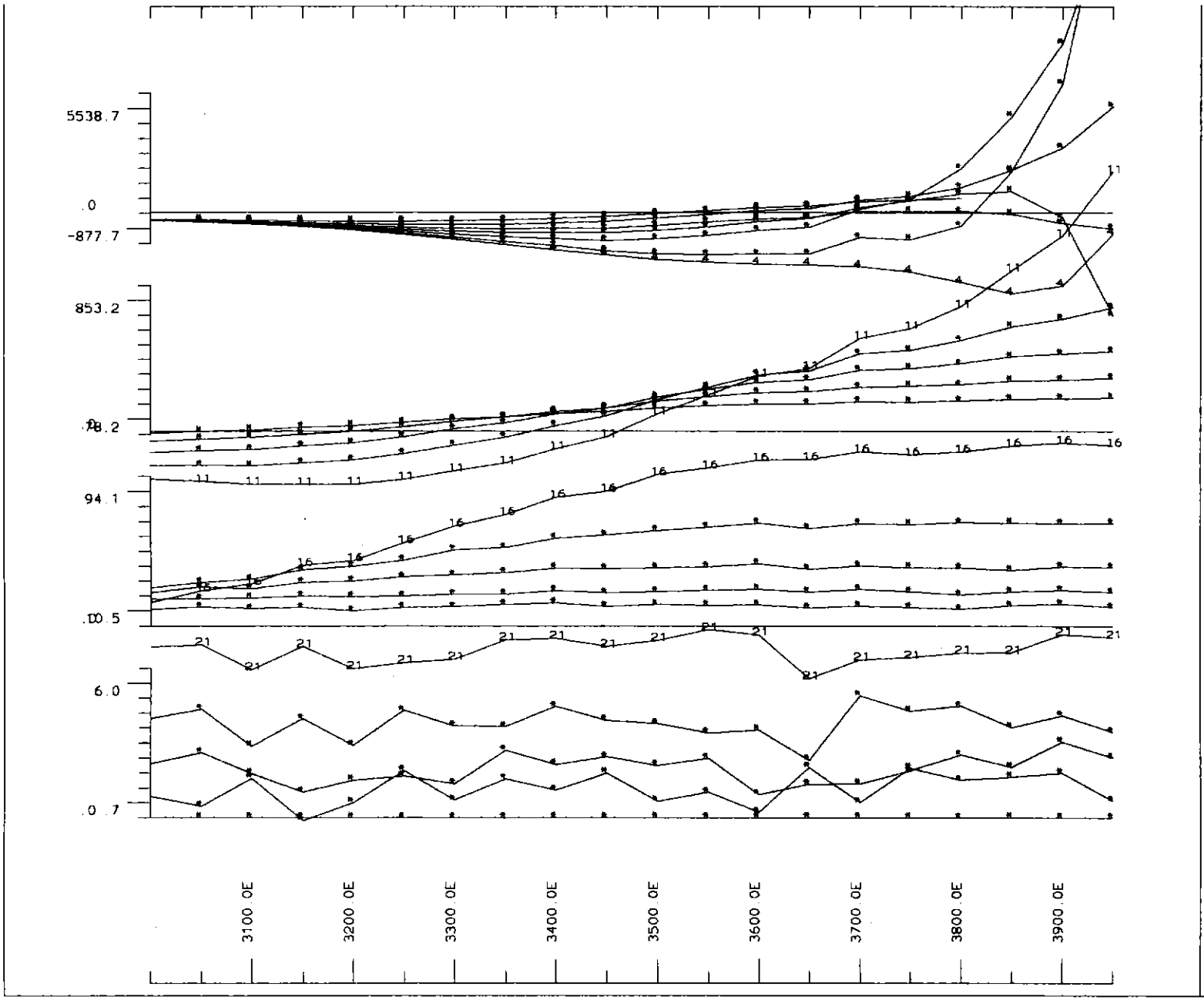
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

14200.31



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop9.av

LOOP: 9

LINE: 14400.00N

Date Plotted: 18/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 11

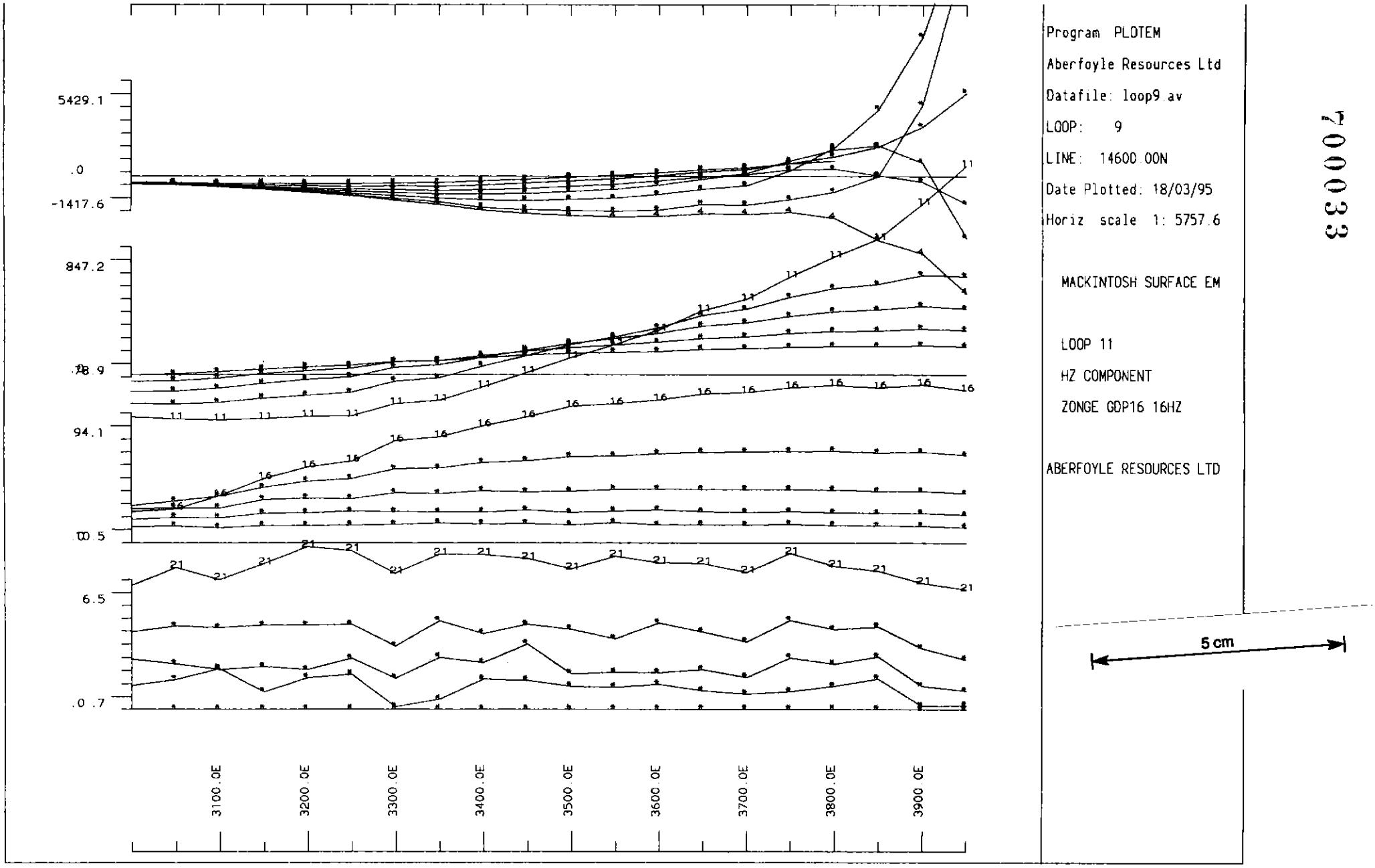
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

26001



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop9.av

LOOP: 9

LINE: 14600.00N

Date Plotted: 18/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 11

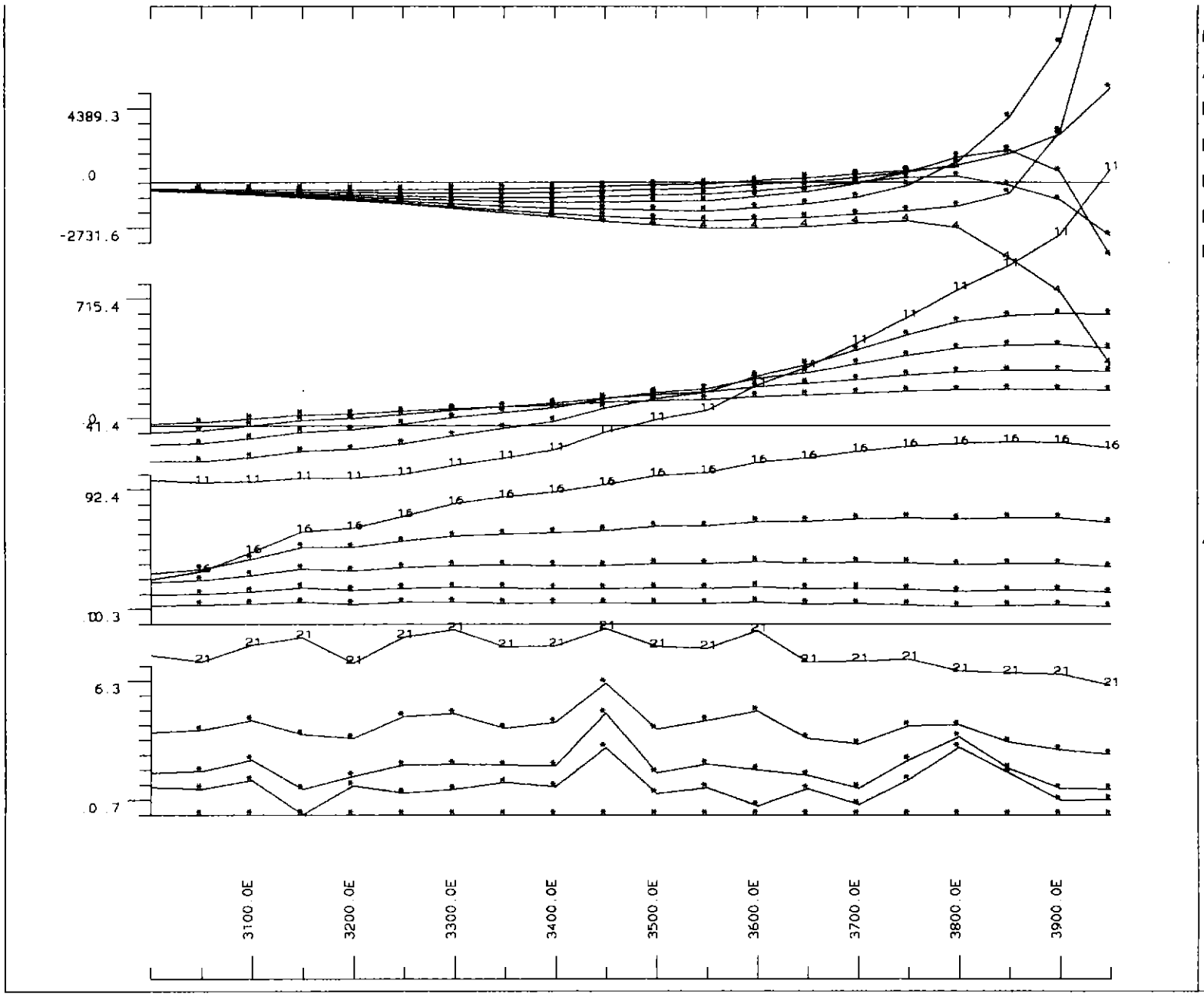
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

700033



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop9.av

LOOP: 9

LINE: 14800.00N

Date Plotted: 18/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 11

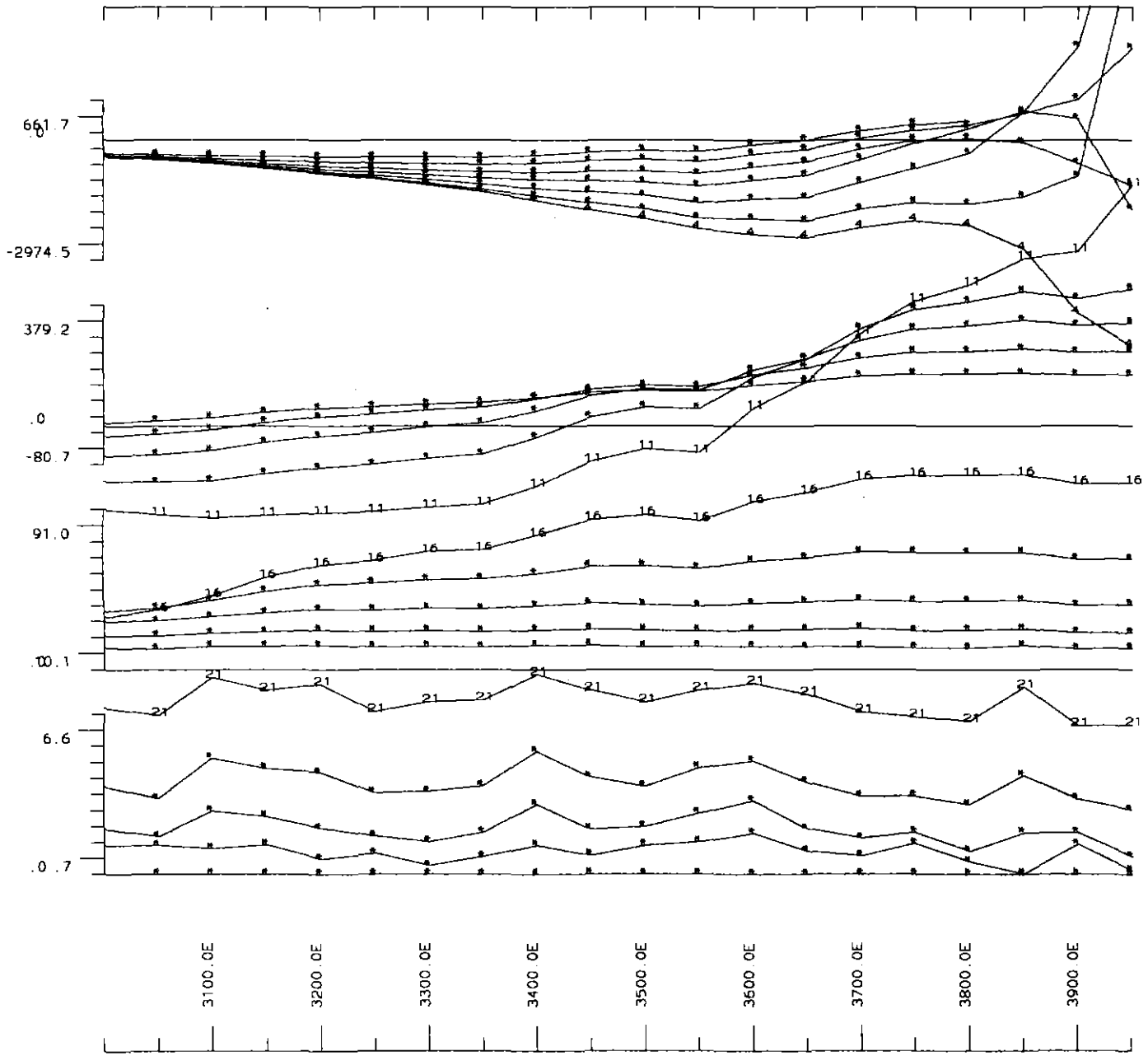
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

700034



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: loop9.av

LOOP: 9

LINE: 15000.00N

Date Plotted: 18/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

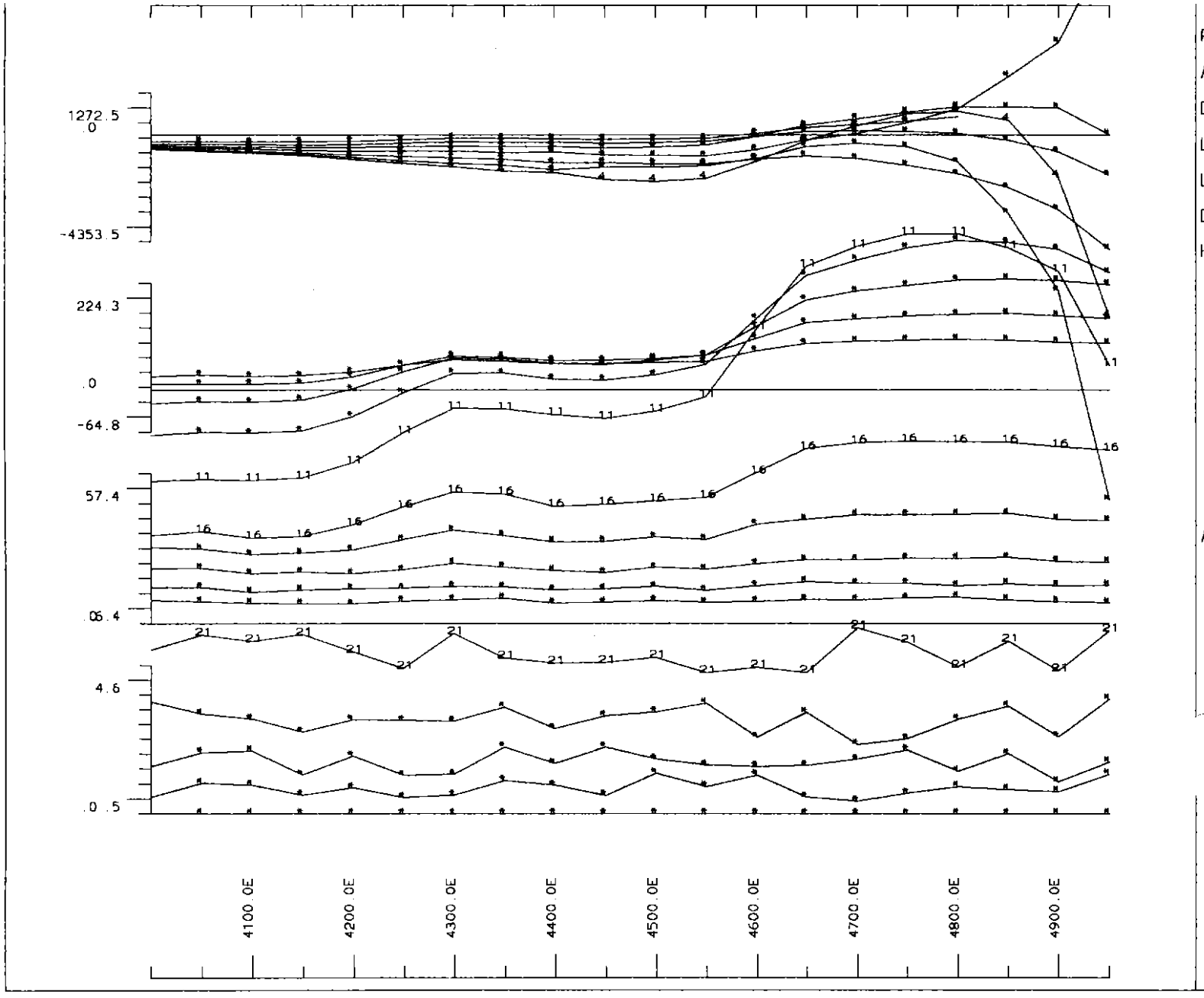
LOOP 11

HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.av

LOOP: 13

LINE: 15000.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 13

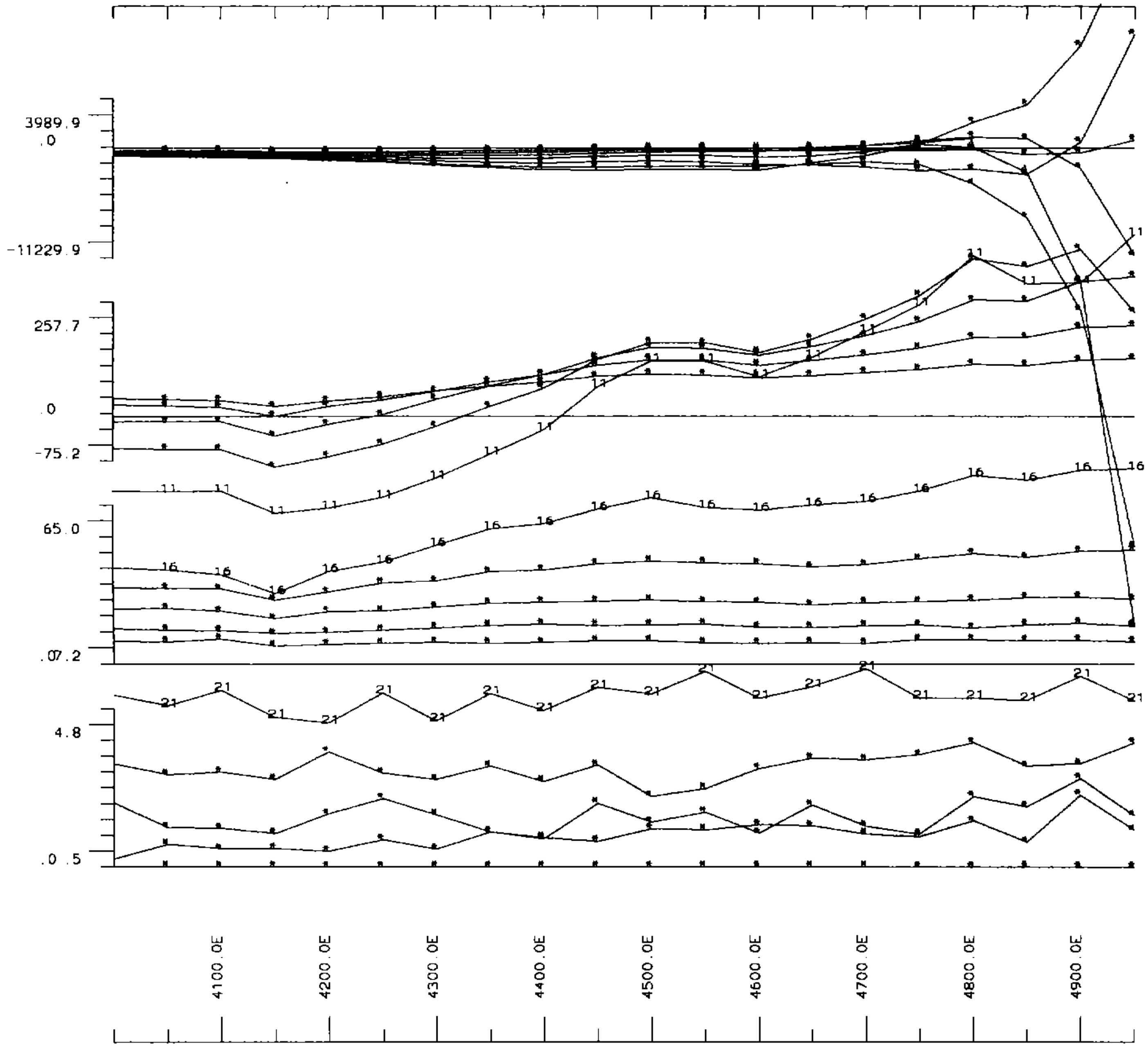
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

93-0003



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.av

LOOP: 13

LINE: 15200.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 13

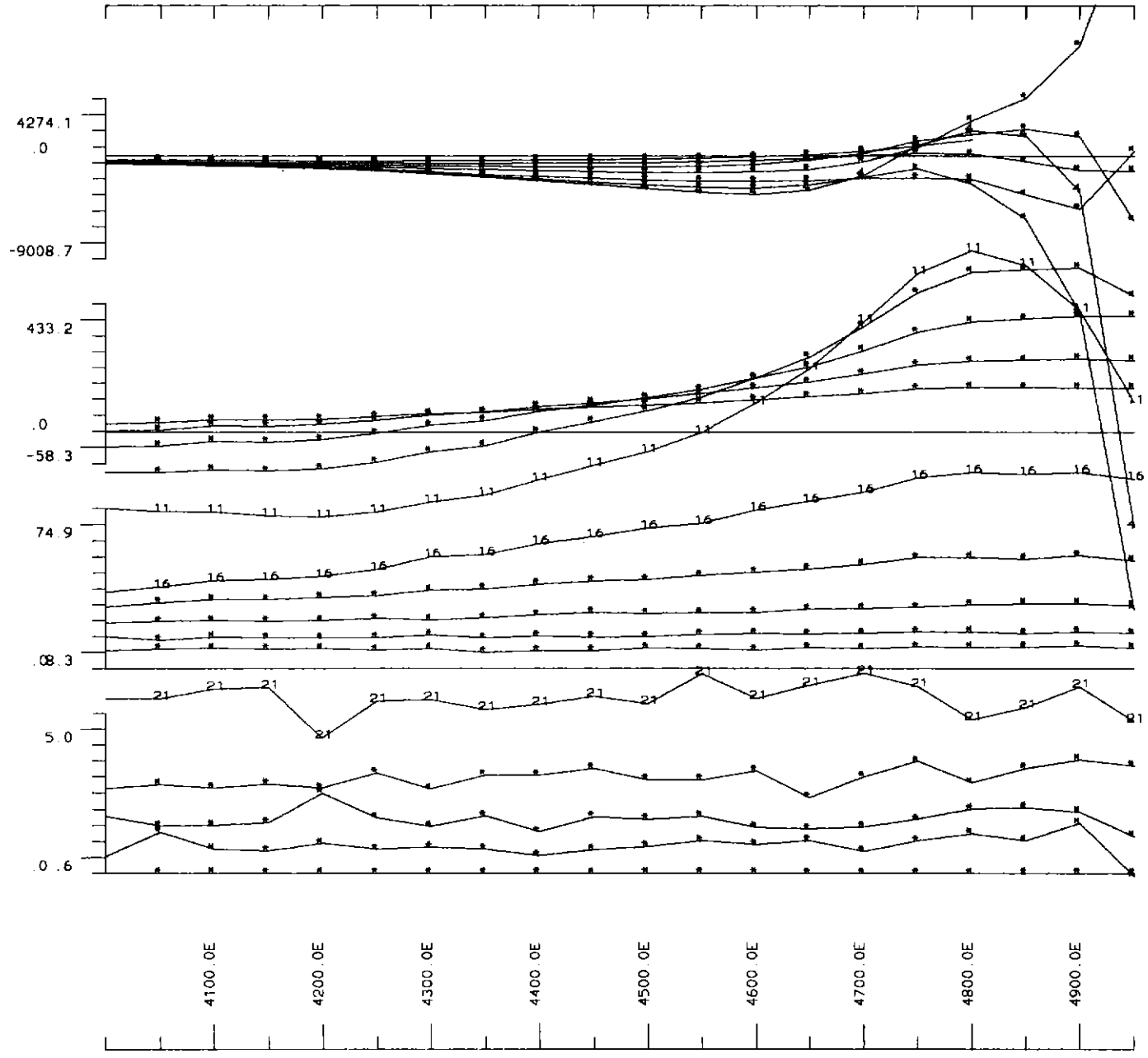
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

700037

5 cm



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.av

LOOP: 13

LINE: 15400.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 13

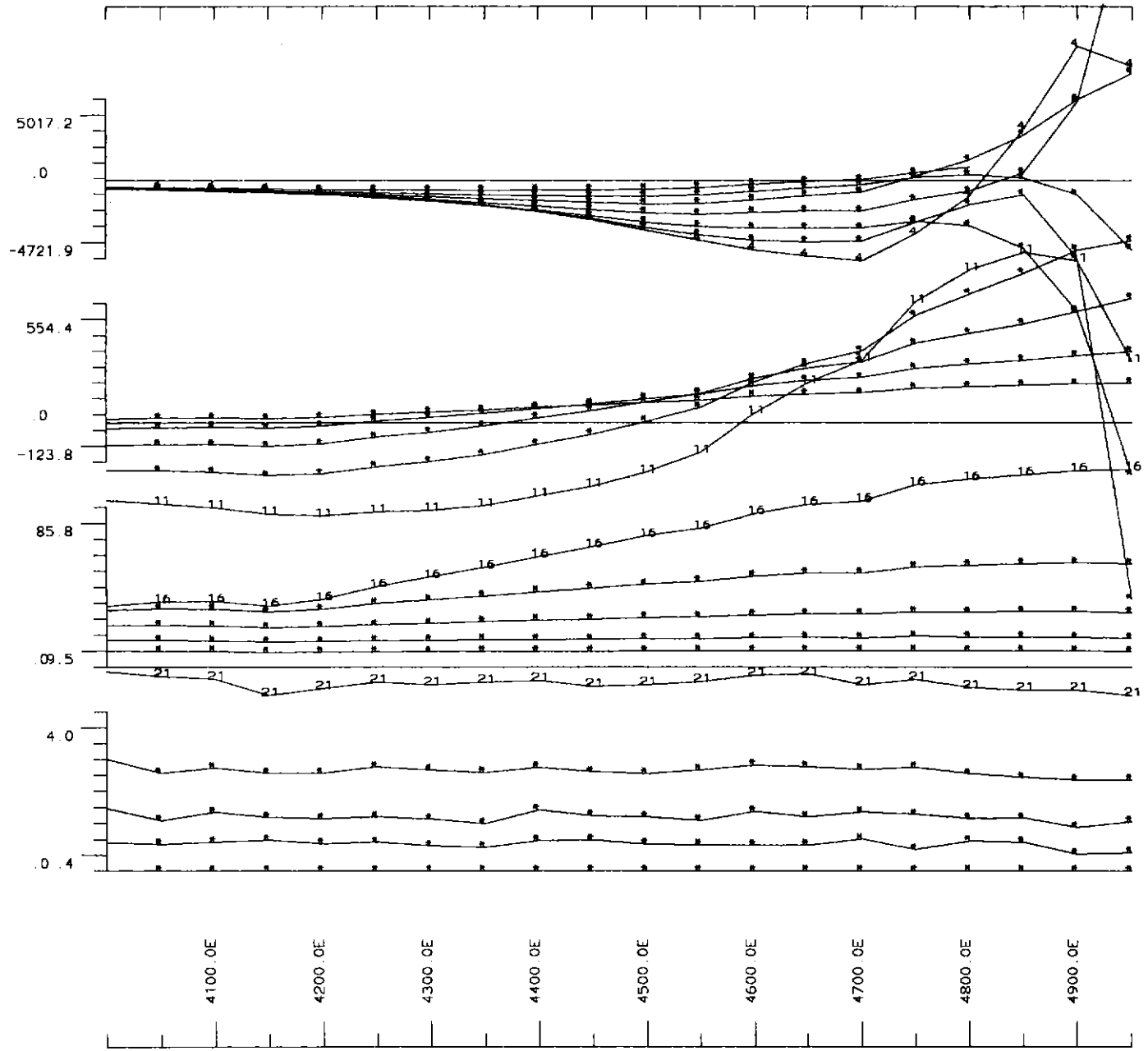
HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

700038



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.av

LOOP: 13

LINE: 15600.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

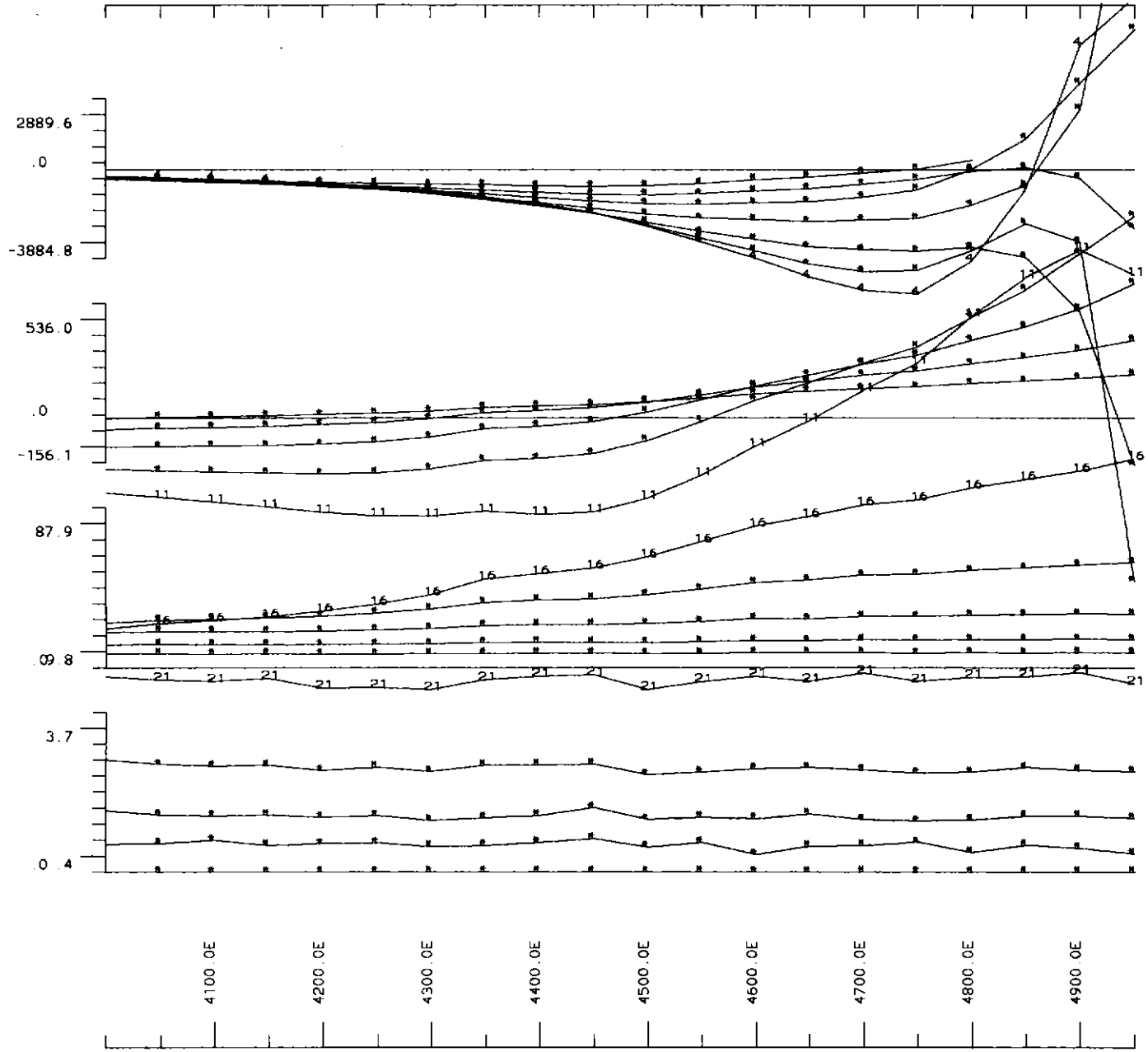
LOOP 13

HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.av

LOOP: 13

LINE: 15800.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

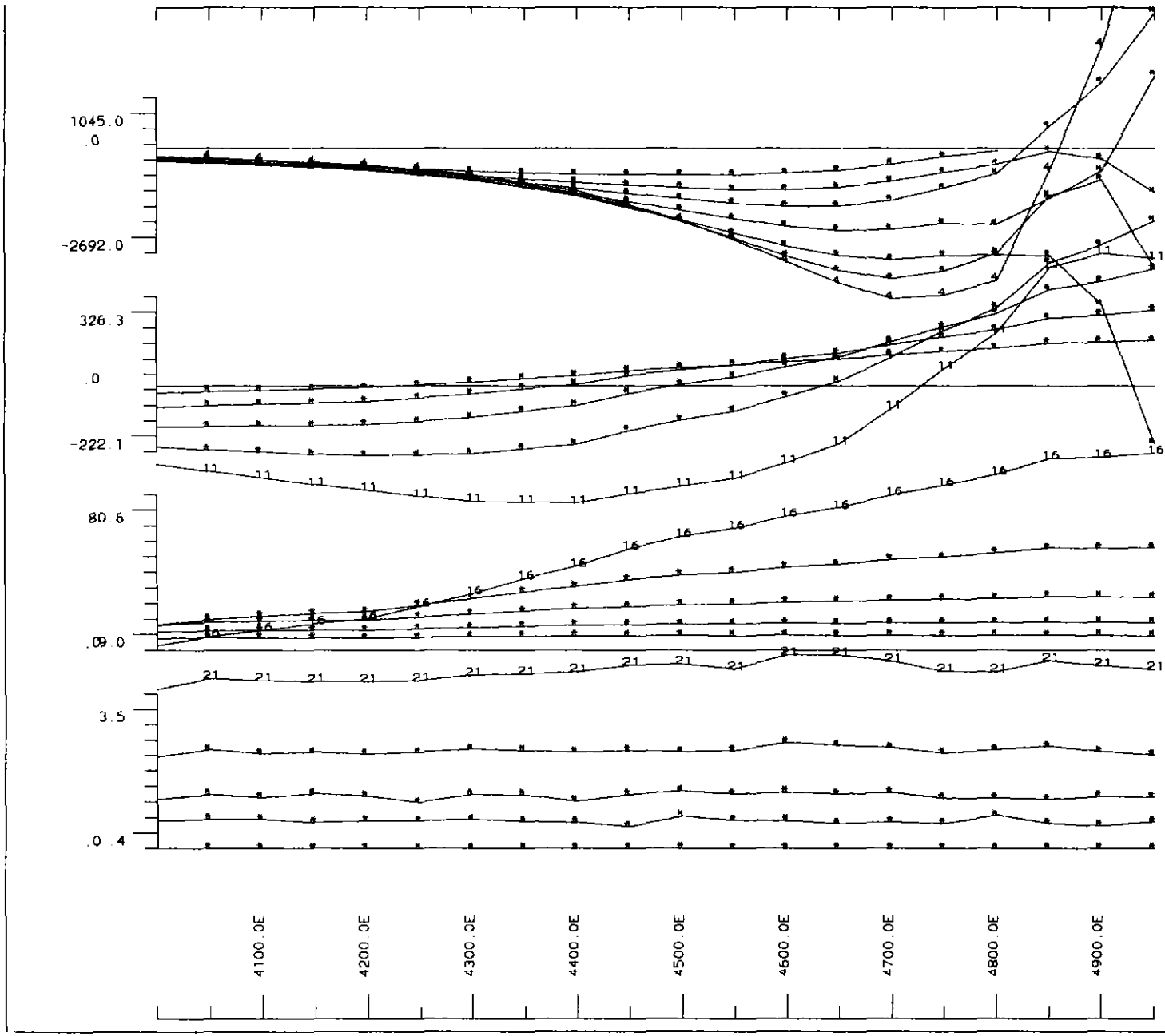
LOOP 13

HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm



Program PLOTEM

Aberfoyle Resources Ltd

Datafile: s\mac_em2\loop13.dat

LOOP: 13

LINE: 16000.00N

Date Plotted: 19/03/95

Horiz scale 1: 5757.6

MACKINTOSH SURFACE EM

LOOP 13

HZ COMPONENT

ZONGE GDP16 16HZ

ABERFOYLE RESOURCES LTD

5 cm

700041

E.L. 106/87

E.L. 13/94 MT. CATTLEY

E.L. 3/95 HATFIELD RIVER

E.L. 106/87

E.L. 106/87
E.L. 56/94

96-3878

EL 3/95 HATFIELD RIVER - FINAL
REPORT 1996 - ABERFOYLE
RESOURCES - MCNEILL, A W

MINE GRID NORTH
AMG NORTH
22°

0 250 500 750 1000
METRES
5 cm

Aberfoyle Resources Limited
EXPLORATION DIVISION
700042

NORTH WESTERN TASMANIA
HATFIELD RIVER E.L. 3/95
WORK COMPLETED 1995/1996

REVISIONS			
Init.	Date	Init.	Date
JMS	Feb 96		

Location Code :

Scale : 1:10000 | Date : JUNE 1996

Compiled : AMcN
Drawn :
Traced : JLR
Checked :
Plate No : HR2/A

Aberfoyle Resources Limited
EXPLORATION DIVISION

700043

REVISIONS			
Init	Date	Init	Date
JMS	Feb 93		
JLR	April 96		

NORTH WESTERN TASMANIA

HATFIELD RIVER E.L. 3/95

WORK COMPLETED 1995/1996

Compiled: AMcN
Drawn:
Traced: JLR
Checked:

Location Code: K55/3
Scale: 1:10000
Date: JUNE 1996
Plate No: HR2/B

96-3878

EL. 3/95 HATFIELD RIVER - FINAL REPORT 1995 - ABERFOYLE RESOURCES - MCNEILL A.W.

EL 3/95

EL 13/94 MT. CATTLEY

EL. 106/97

EL. 3/95 HATFIELD RIVER

EL. 58/94 MACKINTOSH RIVER

EL. 106/97

Cattley Road

Cattley South Road

Cradle Mountain Link Road

VDL Track

(Transmission line under construction)

Leven River

Vale River

Mackintosh Creek

Etchells Creek

Speeles Creek

△ Rocky Mount

△ Mount Beecroft

GPS027

GPS026

401000mE

10000mE

18000mE

409000mE

5404000mN

20000mN

16000mN

5399000mN

18400N

18200N

18000N

17800N

17600N

17400N

17200N

17000N

16800N

16600N

16400N

16200N

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18

G	A	E	21200N
H	B	F	14350N
	C		7500N
	D		0650N
			6200S

10200W 19200E 30600W 94600E

0 250 500 750 1000 METRES

SOIL SAMPLING

MINE GRID NORTH

AMG NORTH

52

Aberfoyle Resources Limited
EXPLORATION DIVISION

700044

NORTH WESTERN TASMANIA

HATFIELD RIVER E.L. 3/95

WORK COMPLETED 1995/1996

REVISIONS				
Init.	Date	Init.	Date	
JMB	3-3-98			

Location Code :

Scale : 1:10000

Date : JUNE, 1996

Compiled : AMcN

Drawn :

Traced : JLR

Checked :

Plate No : HR2/E