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**25 AUG 1982**

INTERIM REPORT  
 EXPLORATION LICENCE 2/70  
 MACKINTOSH  
 TASMANIA

For 6 months ending December 30, 1981

This report covers the  
Aberfoyle periods 7-12/81  
and 1/82

J.R. Sise,  
Project Geologist.

Distribution : Hawthorn  
Burnie  
Dept. of Mines  
Paringa

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Mac 47 H	'C' horizon geochemistry - Zn	1:2,500

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INTRODUCTION

The general conditions governing exploration licences have recently been received by the Department of Mines with important changes taking effect from the 1st July, 1982.

Full technical reports on exploration activities are now required on an annual basis to coincide with and support the new twelve month renewal period of licences. In the past Aberfoyle Exploration Pty. Ltd. have submitted an annual report on the Mackintosh Licence in June each year. This practice is now at odds with the annual renewal due on the 30th December each year. To bring the reporting cycle into line with the revised conditions, an interim report for the six months to December 30, 1981 is hereby submitted; to be followed in December 1982 by an annual report.

Another change in conditions to affect the Mackintosh Licence is that the licence area of 232 sq. km. exceeds the maximum area permitted for a five year old licence, namely 125 sq. km. It is now required that the licence area be reduced to at least the maximum permitted area (125 sq.km.) after two years, and that exploration be completed during a further three year period.

Exploration Licence 2/70 Mackintosh River covers an area of 232 sq. km. and was granted to Aberfoyle Tin N.L. on 19th January, 1970. The licence is now defined in two parts, the western part of 174 sq. kms. being to the east of the Murchinson Highway and the eastern part of 57.85 sq. kms. to the immediate north-west of the Cradle Mountain-Lake St. Clair Park. The E.L. was transferred from Aberfoyle Tin N.L. to Abminco N.L. on 17th March, 1978. The E.L. was transferred to Cleveland Tin Limited on 28th March, 1979. Work is managed by Aberfoyle Exploration Pty. Ltd. Since 6th February, 1970, the licence is the subject of a joint venture between Aberfoyle Limited and Paringa Mining & Exploration Co. Ltd. Current equities are Paringa 10% and Aberfoyle Limited 90%.

On 1st October, 1979, that "Eastern Block" part of E.L. 2/70 described as Mackintosh East became the subject of a joint venture agreement between Peko-Wallsend Operations Ltd., Paringa Mining and Exploration Co. Ltd. and Cleveland Tin Limited. Current equities are Peko 40%, Paringa 10%, Aberfoyle 50%. The Joint Venture is managed by Geopeko - a division of Peko-Wallsend Operations Ltd. Geopeko report independently on E.L. 2/70 Mackintosh East. E.L. 46/80 was added to the Joint Venture area on 17th June, 1981.

The exploration programme during the 1980-81 summer field season (Sise, 1981) was successful in defining a zone north from line 9800N and open beyond line 10600N with coincident base metal (>250 ppm Pb) soil and I.P. geophysical anomalies over a belt of prospective volcanic stratigraphy. The I.P. survey on these lines was of a reconnaissance nature using a 100 metre dipole spread (Plate Mac 62).

5 cm

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Hatfield  
E.L. 15/73

Mackintosh  
E.L. 2/70

53'

E.L. 15/73

Mayday Creek  
E.L. 5/74

- 5,390,000 N

I.P. Chargeability Contours 1980-81  
(contour interval 2.5 milliseconds)

TOTAL I.P. COVERAGE

— SINGLE LINE 1980-81

— PRE 1980 SINGLE LINE

▨ PRE 1980 BLOCK OF 100 M SPACED LINES

0 500 1000 SCALE 2000 3000  
metres



**Aberfoyle Exploration Pty Ltd**

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Revised by	Date

NORTH WEST TASMANIA  
Mackintosh West / Hatfield Licence Areas  
I. P. COVERAGE 1980-81

Location code	
Date	May, 1981
Scale	150,000
Plate No	Mac 62

The follow-up programme during the six months to 30th December, 1981 involved grid cutting, C-horizon soil geochemistry and a detailed I.P. geophysical survey using 50 metre spaced dipoles as follows:-

#### GRID CUTTING

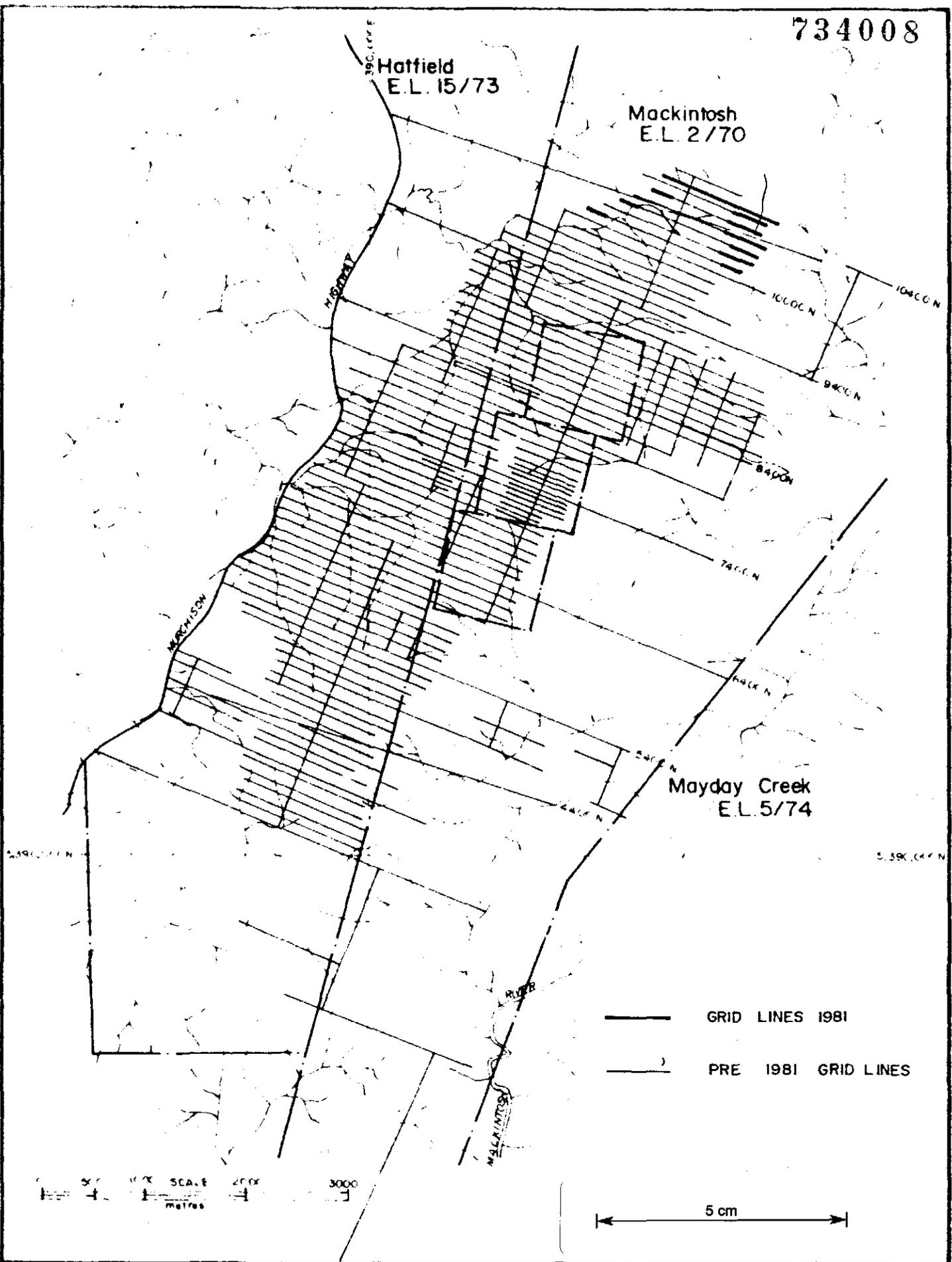
In order to extend the coverage of the detailed geophysical survey further grid cutting was required. As has been the practice on the Mackintosh Licence, chain and compass survey with clinometer control for slope correction was used to extend earlier gridding and fill-in between existing lines to establish 50 metre spaced grid pegs on lines 100 metres apart. A total of 3.75 km of grid cutting was accomplished; the details are presented below and summarised on Plate Mac 63.

<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH (m)</u>
10,100 N	4,750 E	4,900 E	150
	6,100 E	6,300 E	200
10,200 N	6,000 E	6,400 E	400
10,300 N	4,900 E	5,100 E	200
	6,100 E	6,400 E	300
10,400 N	6,000 E	6,450 E	450
10,500 N	5,150 E	5,400 E	250
	6,100 E	6,350 E	250
10,600 N	6,000 E	6,350 E	350
10,700 N	5,250 E	6,450 E	1200
			<hr/>
		TOTAL:	3,750 m
			<hr/>

Hatfield  
E.L. 15/73

Mackintosh  
E.L. 2/70

Mayday Creek  
E.L. 5/74



 **Aberfoyle Exploration Pty Ltd**

Drawn	J. R. S.
Traced	J. R. S.
Checked	
Revised by	Date

**NORTH WEST TASMANIA**  
**Mackintosh West / Hatfield Licence Areas**  
**GRID & SOIL GEOCHEM. COVERAGE 1981**

Location code	
Date	May, 1981
Scale	1:50,000
Plate No	Mac 63

SOIL GEOCHEMISTRY

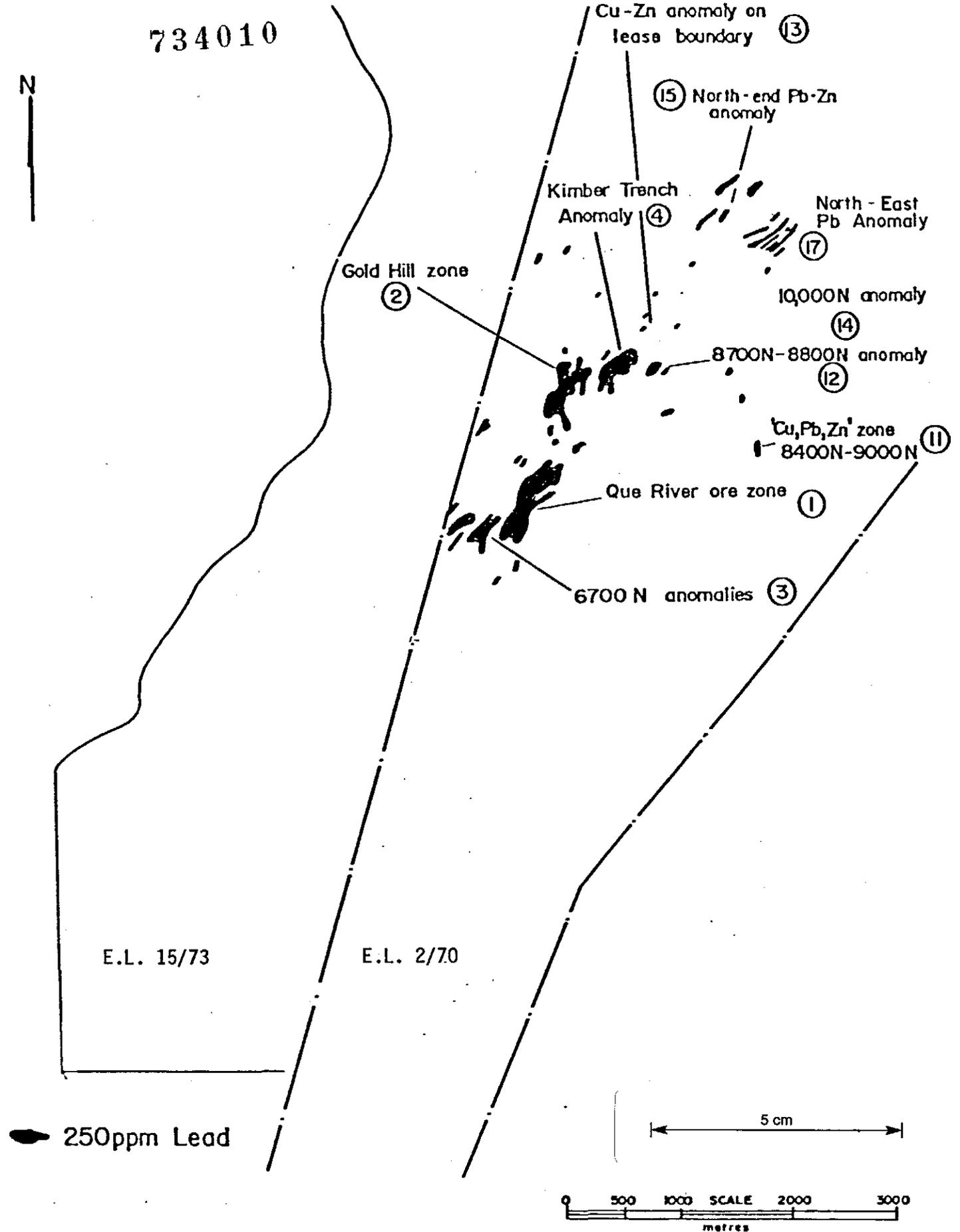
Soil sampling along all cut grid lines is a prime technique which has been adopted in the exploration of the Mackintosh Licence. Soil samples were collected by hand auger at 10 metre intervals along the extended grid lines. Where possible the C-horizon was taken. Sample analysis performed by Analabs Pty.Ltd. was for copper, lead, and zinc by atomic absorption spectroscopy of the minus 80 mesh fraction. All results have been plotted at 1:2500 scale as separate sheets for Cu, Pb, Zn and contoured. (Plates Mac 45, 46 and 47: Sheets (g), (h) are attached to this report).

A summary plan (Plate QR100, in text) showing lead geochemistry outlined by the 250 ppm contour illustrates the anomalies detected so far in the licence area. Anomaly numbers 1 to 4 and 11 to 15 have been described in detail in earlier reports (Young 1977; 1978 a, b; Sise 1981). The recent soil sampling was successful in extending the existing anomaly (No.15) and locating a further anomalous zone.

## ANOMALY NO.17 NORTH-EAST Pb ANOMALY

This anomaly consists of a series of parallel anomalous lead trends (up to 1700 ppm Pb with minor zinc to 850 ppm) covering an area at least 500 metres in length and 300 metres width, situated on the eastern extension of the grid between lines 10,000 N and 10,600 N and centred around 6250E. The anomaly is thought to occur in Que River Slate and rhyolitic volcanics immediately overlying the prospective volcanic sequence.

734010



# Aberfoyle Exploration Pty. Ltd.

Drawn: J.R.S.

Traced: R.J.E.

Checked:

Revised by: Date:

NORTH WEST TASMANIA  
 MACKINTOSH / HATFIELD E.L. AREAS  
 GEOCHEMICAL SUMMARY PLAN

Location code:

Date: July, 1981

Scale: 1:50,000

Plate No: OR 100

GEOPHYSICS

During the 1980-81 reconnaissance I.P. survey using 100 metres spaced dipoles on lines 200 metres apart, a very promising anomaly extending north of line 9,800 N was located (Sise 1981). The edge of a further chargeability high was also detected on line 10,600 N at 6000 E.

In order to detail both these anomalies the following lines were covered by 50 metre spaced dipole I.P. during December 1981.

<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH (m)</u>
9,800 N	4,700 E	5,900 E	1200
9,900 N	4,800 E	5,900 E	1100
10,000 N	4,900 E	5,900 E	1000
10,100 N	4,750 E	6,300 E	1550
10,200 N	4,800 E	6,400 E	1600
10,300 N	4,900 E	6,400 E	1500
10,400 N	5,050 E	6,450 E	1400
10,500 N	5,150 E	6,350 E	1200
10,600 N	5,150 E	6,350 E	1200
10,700 N	5,250 E	6,450 E	1200

TOTAL: 12,950 m

An additional reconnaissance line was surveyed using 100 metres spaced dipoles:

<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH (m)</u>
9,200 N	4,280 E	5,900 E	1,620

The I.P. profiles for all the above lines are appended (Appendix I).

The detailed I.P. survey was successful in more clearly defining the two anomalies detected during the previous survey:

1. The main anomaly north of line 9,800 N is shown to have its strongest expression on line 10,200 N centred on 5650 E. At this point the depth to the top of the source is at least 50 metres. The anomalous trend persists on adjacent lines but with a less pronounced expression.
2. The high chargeability readings on the northern lines to the east of line 6000 E coincide with the zone of anomalous lead geochemistry. The geophysical response is anomalous in the fact that it is not consistent with the inferred geology and may represent a concealed conductor at depth.

### LEAD ISOTOPES

Isotopic characterisation of mineralised samples from the Que River Mine has been undertaken by the CSIRO, Division of Mineralogy, under a collaborative research programme for the Australian Mineral Industries Research Association Limited of which Aberfoyle Limited is a sponsor.

In order to extend the scope of this work into the exploration environment, Dr. Brian Gulson of the CSIRO agreed to analyse a group of soil samples from anomaly Nos. 15 and 17 (Plate QR100) on the Mackintosh Licence. Full details of the results summarised below appear in Appendix II together with sample location information:

#### 1. ANDESITE/DACITE ANOMALY (NO.15 PLATE QR 100)

Although the samples with the highest lead concentration of 1350 and 550 ppm have isotope ratios which are similar to Que River ore, those with only 90 to 180 ppm have quite variable ratios, which suggests that the lead in this anomaly is derived by leaching of the volcanic country rock.

#### 2. SLATE ANOMALY (NO.17 PLATE QR 100)

The isotope ratios of samples from this anomaly are homogeneous and very similar to those in the P lens at the Que River Mine.

CONCLUSIONS

The follow-up exploration programme during the six months to 30th December, 1981 on the Mackintosh Licence has been successful in delineating two drill targets, both of which are defined by coincident I.P. and soil geochemical anomalies. Further encouragement is given to one of the anomalies by promising lead isotopic abundances.

Funds which were allocated in the 1981-82 budget for diamond drilling contingent of successful target definition will now be utilised to complete two drill holes for approximately 400 metres. Drilling is planned to commence in January 1982 following the construction of an access track.

EXPENDITURE

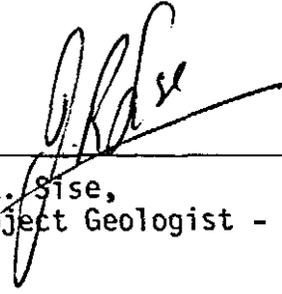
The Statement of expenditure is for the Aberfoyle periods 8/81 to 12/81 commencing June 30, 1981, and ending November 16, 1981.

	\$
Geology	3,250
Geophysics	6,605
Geochemistry	5,614
Assays	1,022
Access	3,850
Tenure	396
Indirect Costs	3,111
	<u>\$23,848</u>
	-----

REFERENCES

- Young, C.H. (1977): Summary review of the results of exploration on Exploration Licences Mackintosh River 2/70 and Hatfield River 15/73.
- Young, C.H. (1978a): Annual Report, Exploration Licence 15/73 Hatfield, Tasmania. For 12 months ending June 1, 1978.
- Young, C.H. (1978b): Annual Report, Exploration Licence 2/70 Mackintosh, Tasmania. For 12 months ending June 1, 1978.
- Sise, J.R. (1981): Annual Report, Exploration Licences 15/73 and 2/70, Hatfield and Mackintosh West. For 12 months ending June 1, 1981.

SIGNED: \_\_\_\_\_



J.R. Sise,  
Project Geologist - Tasmania.

ENDORSED: \_\_\_\_\_



E.H. Skey,  
Exploration Manager.

APPENDIX I

I.P. PROFILES

Lines 9,200 N, then 9,800 N  
to 10,700 N inclusive

9200N

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I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L = 50)

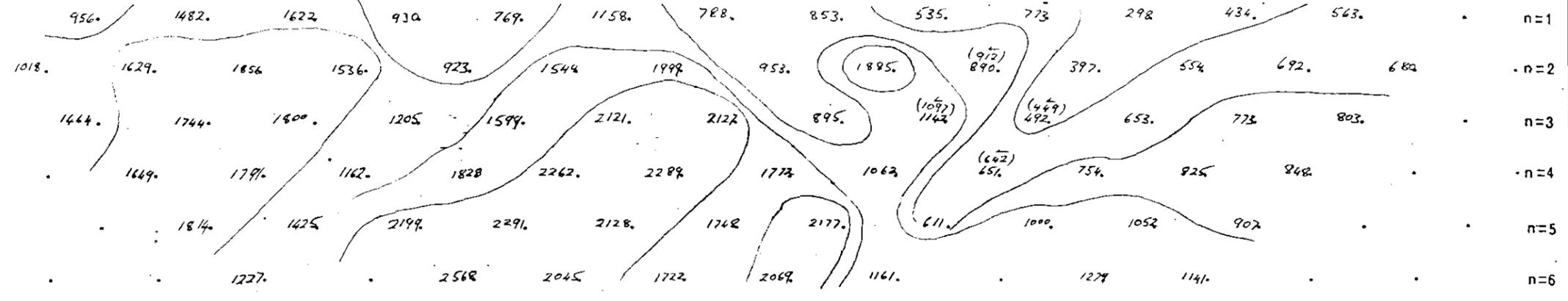
CULTURE PLAN

4300E

5200E

APPARENT RESISTIVITY (ohm m)

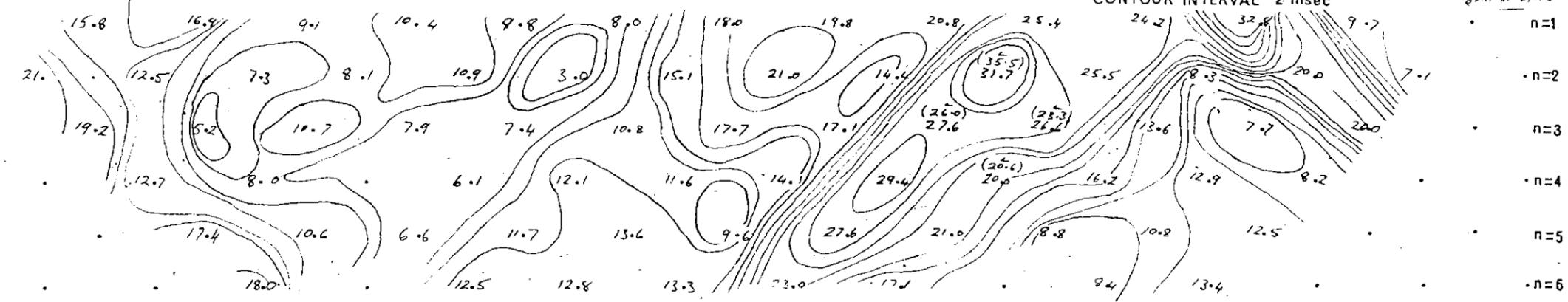
LOGARITHMIC CONTOUR INTERVAL



STATION

APPARENT CHARGEABILITY (mv/v)

CONTOUR INTERVAL 2 msec



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 RECEIVER TYPE: Huntec Mk IV (Serial No. 10011)  
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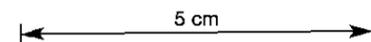
ABERFOYLE EXPLORATION PTY. LTD.

AREA: QUE RIVER

LINE: 9200N  
 SCALE: 1:5000  
 DATE: 21-12-81

SOLO GEOPHYSICS AND COMPANY

82-1806

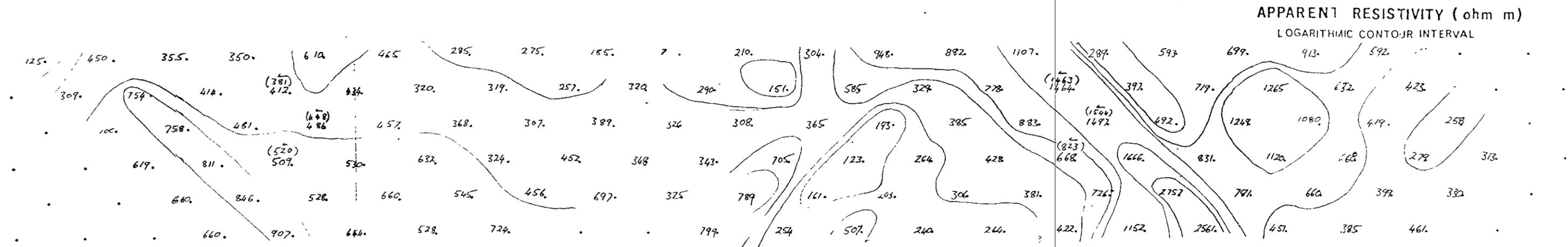
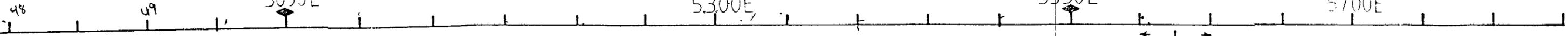


9800N

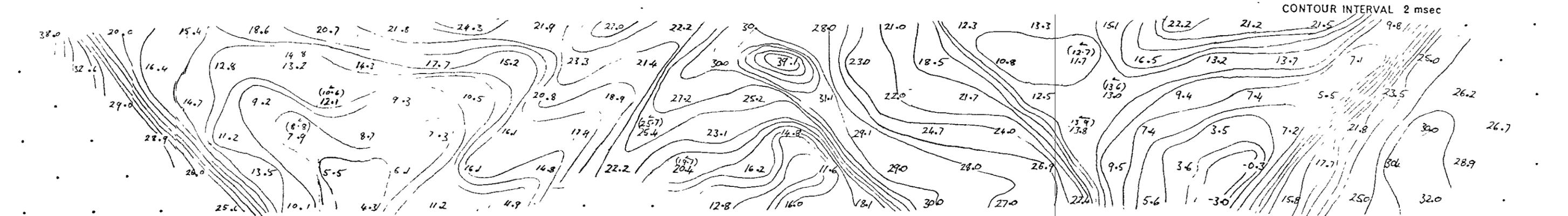
I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE A)

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L= 50)

CULTURE PLAN



APPARENT CHARGEABILITY (mv/v)



TRANSMITTER TYPE: Phoenix IPT- 1B  
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RECEIVER TYPE: Huntac Mk IV (Serial No. 1007)  
INTEGRATION TIME: m/sec after cut off

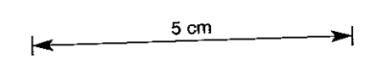
ABERFOYLE EXPLORATION F  
SOLO GEOPHYSICS

TRANSMITTER TYPE: Phoenix IPT- 1B  
TIMING SEQUENCE: 2 sec on 2 sec off  
RECEIVER TYPE: Huntac Mk IV (Serial No. 1007)  
INTEGRATION TIME: m/sec after cut off 140

ABERFOYLE EXPLORATION PTY. LTD.  
SOLO GEOPHYSICS AND COMPANY

AREA: QUE RIVER  
LINE: 9800N  
SCALE: 1:5000  
DATE: 17-9-81  
17-12-81

82-1806.

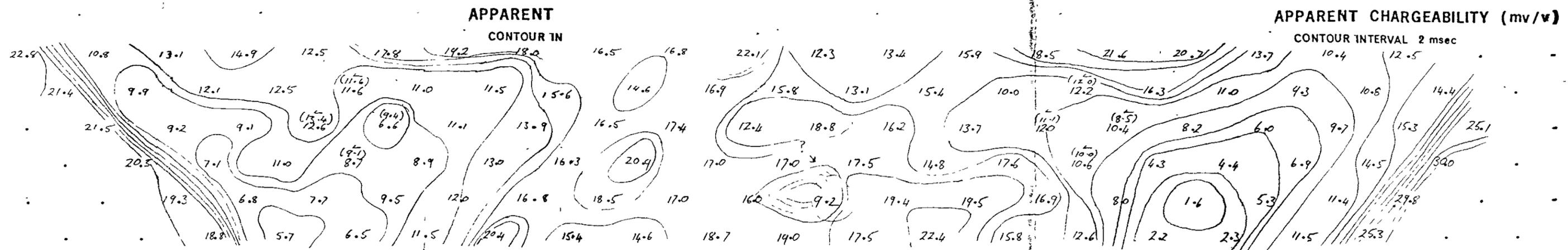
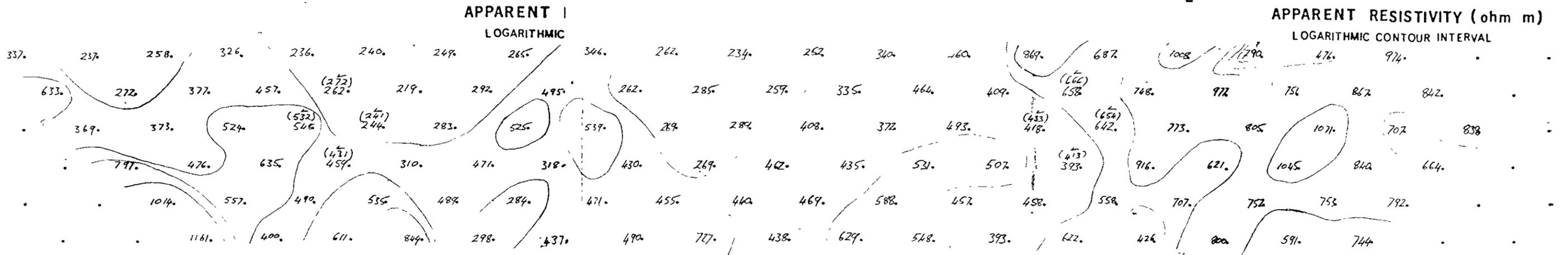


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I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

CULTURE PLAN



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 INTEGRATION TIME: m/sec after cut off

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 SOLO GEOPHYSICS AND COMPANY

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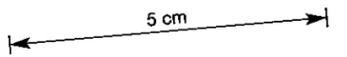
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ABERFOYLE EXPLORATION PTY. LTD.  
 SOLO GEOPHYSICS AND COMPANY

AREA: QUE RIVER

LINE: 9900N  
 SCALE: 1:5000  
 DATE: 17-12-81

82-1806.

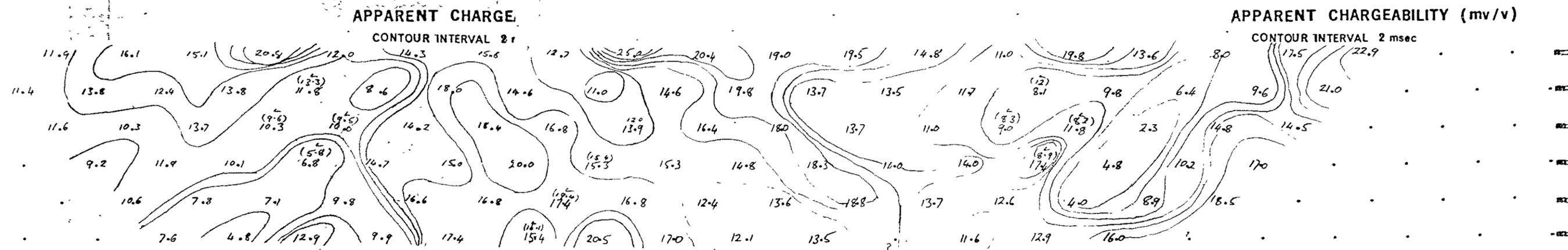
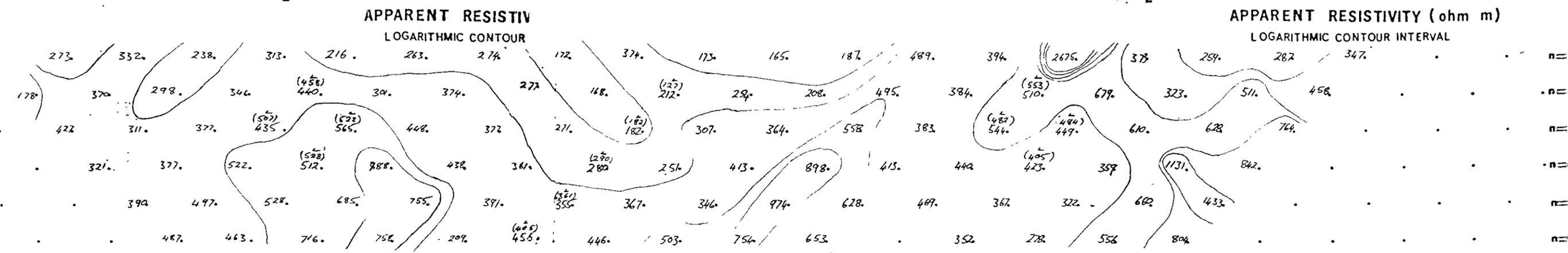


734019

5200E

500E

5900N



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 SOLO GEOPHYSICS AND COMPANY

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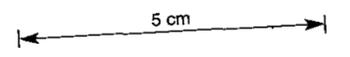
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ABERFOYLE EXPLORATION PTY. LTD.  
 SOLO GEOPHYSICS AND COMPANY

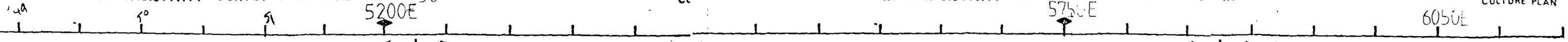
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82-1806.

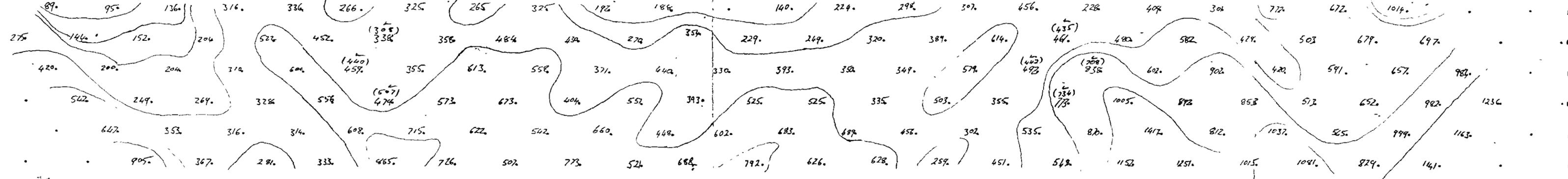


734020



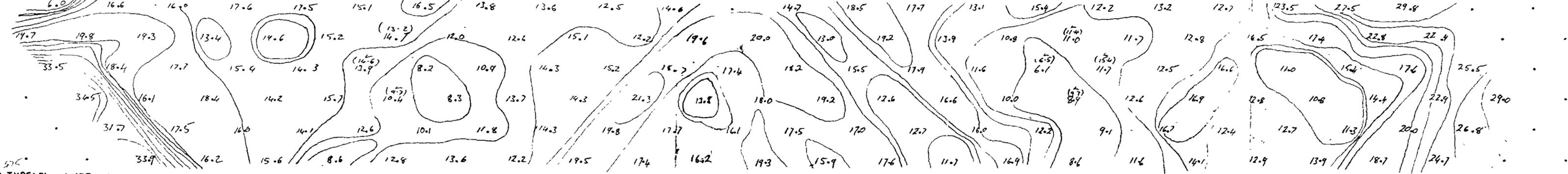
APPARENT RESISTIVITY (ohm m)  
LOGARITHMIC CONTOUR INTERVAL

APPARENT RESISTIVITY (ohm m)  
LOGARITHMIC CONTOUR INTERVAL



APPARENT CHARGEABILITY (msec)  
CONTOUR INTERVAL 2 msec

APPARENT CHARGEABILITY (mv/v)  
CONTOUR INTERVAL 2 msec



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ABERFOYLE EXPLORATION PTY. LTD.  
SOLO GEOPHYSICS AND COMPANY

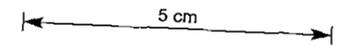
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SCALE: 1  
DATE:

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ABERFOYLE EXPLORATION PTY. LTD.  
SOLO GEOPHYSICS AND COMPANY

AREA: QUE RIVER.  
LINE: 10100N  
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DATE: 22-9-81

82-1806.

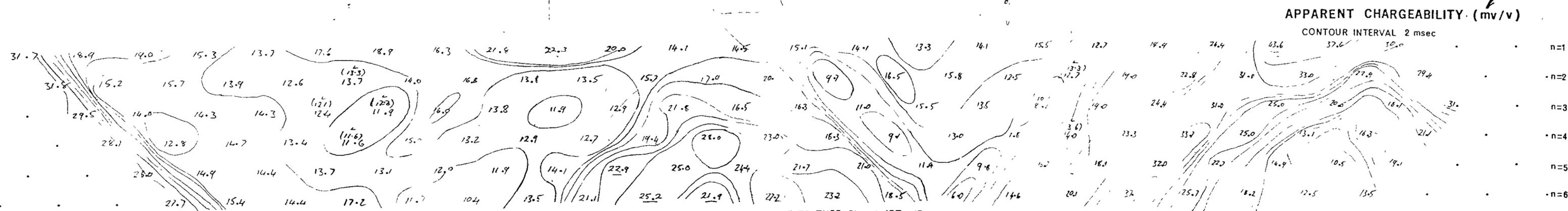
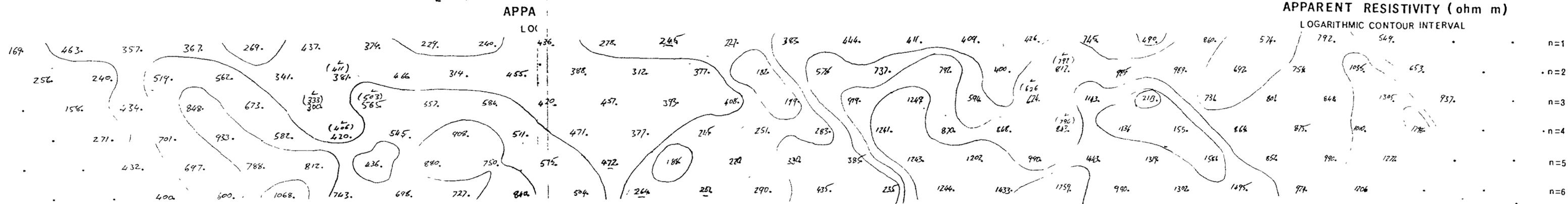


734021

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

CULTURE PLAN



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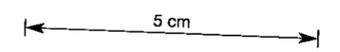
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 SOLO GEOPHYSICS AND COMPANY

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 INTEGRATION TIME: 140 m/sec after cut off

ABERFOYLE EXPLORATION PTY. LTD.  
 AREA: CREEPER  
 SOLO GEOPHYSICS AND COMPANY

LINE: 10200N  
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82-1806.

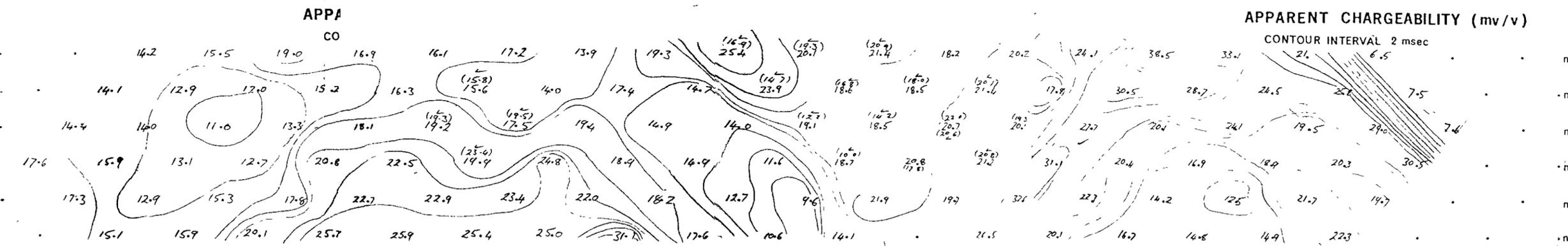
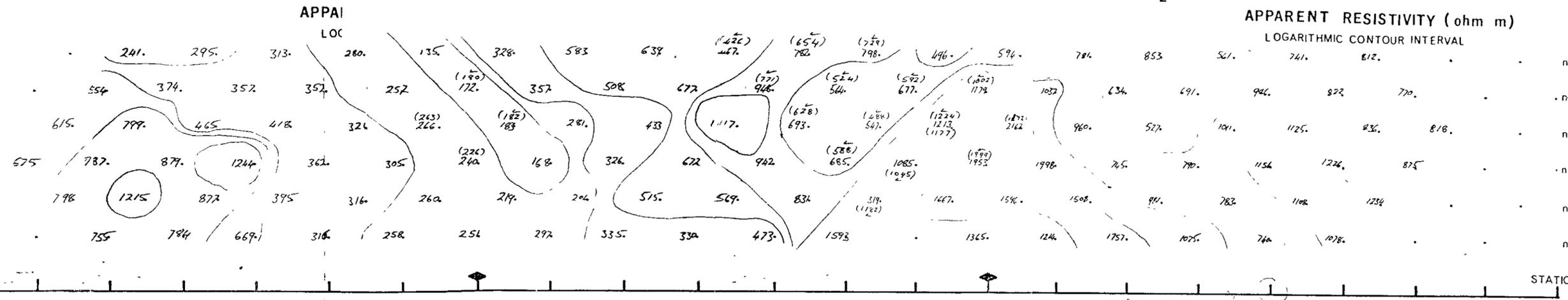


734022

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=100m)

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=100m)

CULTURE PLAN



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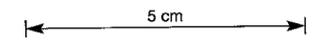
ABERFOYLE EXPLORATION PTY. LTD.  
 AREA:  
 SOLO GEOPHYSICS AND COMPANY

TRANSMITTER TYPE: Phoenix IPT- 1B  
 TIMING SEQUENCE: 2 sec on 2 sec off  
 RECEIVER TYPE: Hunttec Mk IV (Serial No.1007)  
 INTEGRATION TIME: m/sec after cut off

ABERFOYLE EXPLORATION PTY. LTD.  
 AREA: QUE RIVER  
 SOLO GEOPHYSICS AND COMPANY

LINE: 10300N  
 SCALE: 1:5000  
 DATE: 30-9-81  
 10-12-81

82-1806.

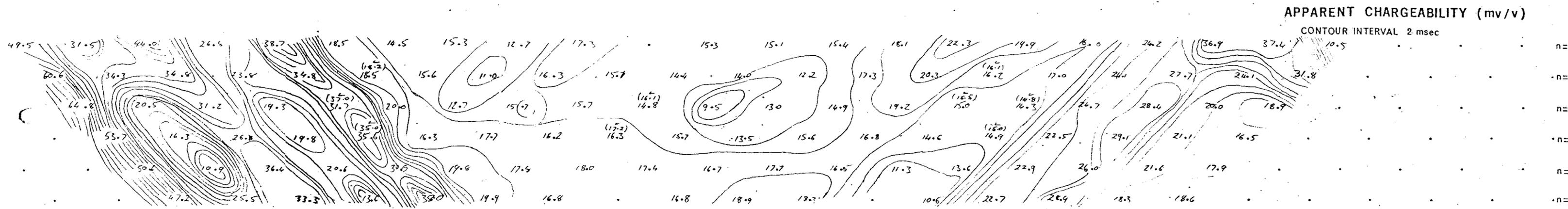
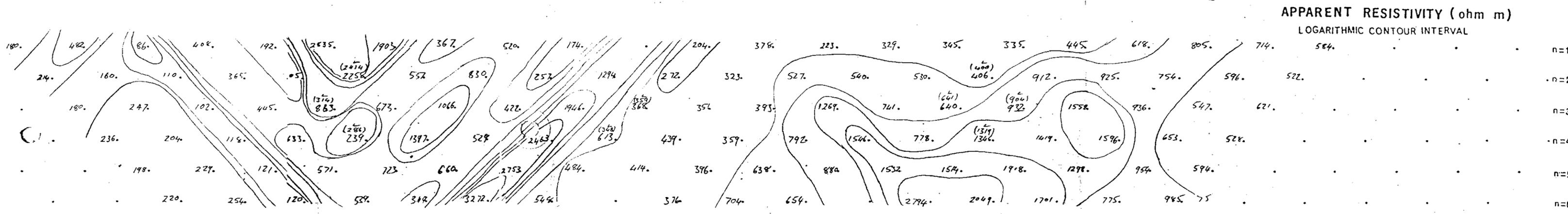


734023

I.P. & RESISTIVITY  
5450E

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)  
5950E

CULTURE PLAN



TRANSMITTER TYPE: Phoenix IPT- 1B  
TIMING SEQUENCE: 2 sec on 2 sec off  
RECEIVER TYPE: Huntec Mk IV (Serial No. 10011)  
INTEGRATION TIME: m/sec after cut off

ABERF

TRANSMITTER TYPE: Phoenix IPT- 1B  
TIMING SEQUENCE: 2 sec on 2 sec off  
RECEIVER TYPE: Huntec Mk IV (Serial No. 10011)  
INTEGRATION TIME: 140 m/sec after cut off

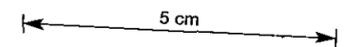
ABERFOYLE EXPLORATION PTY. LTD.

SOLO GEOPHYSICS AND COMPANY

AREA: QUE RIVER

LINE: 10400N  
SCALE: 1:5000  
DATE: 15-12-81

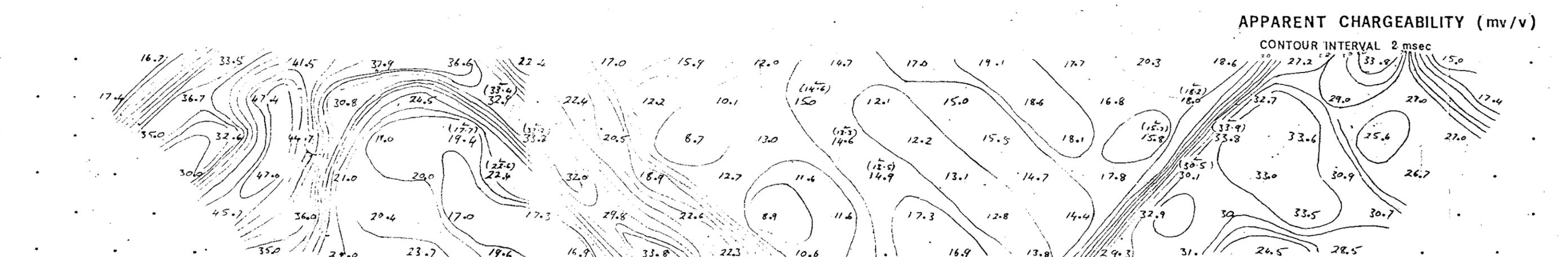
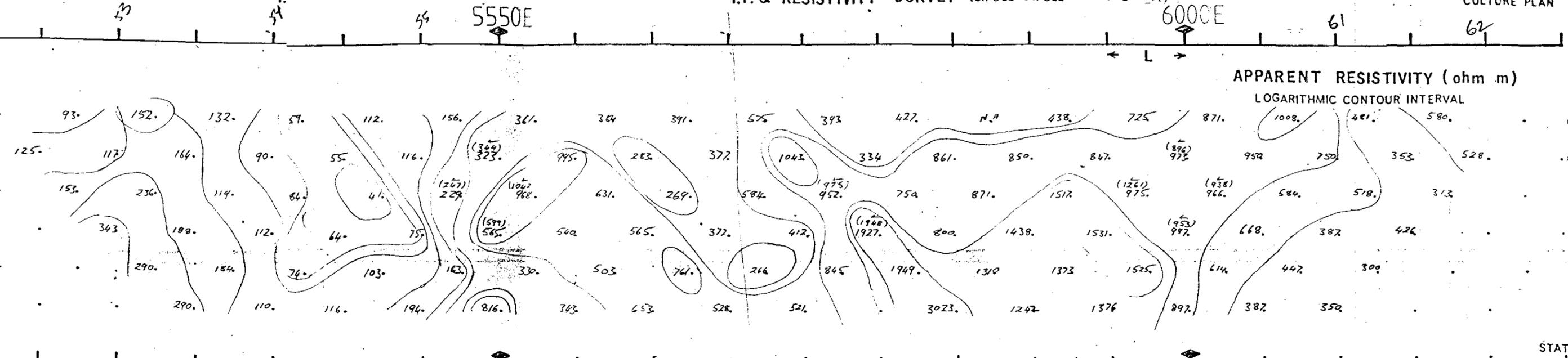
82-1806.



734024

I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

CULTURE PLAN



TRANSMITTER TYPE: Phoenix IPT-  
TIMING SEQUENCE: 2 sec on 2 sec  
RECEIVER TYPE: Huntac Mk IV (S  
INTEGRATION TIME: m/

TRANSMITTER TYPE: Phoenix IPT- 1B  
TIMING SEQUENCE: 2 sec on 2 sec off  
RECEIVER TYPE: Huntac Mk IV (Serial No. 10011)  
INTEGRATION TIME: 140 m/sec after cut off

ABERFOYLE EXPLORATION PTY. LTD.

AREA: QUE RIVER

LINE: 10500N

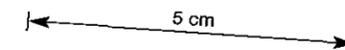
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DATE: 11-12-81

SOLO GEOPHYSICS AND COMPANY

82-1806.

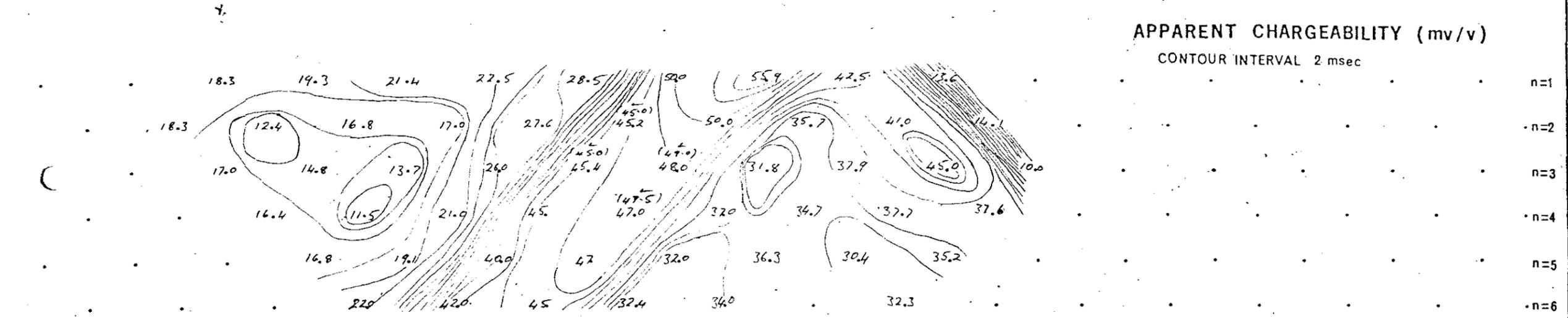
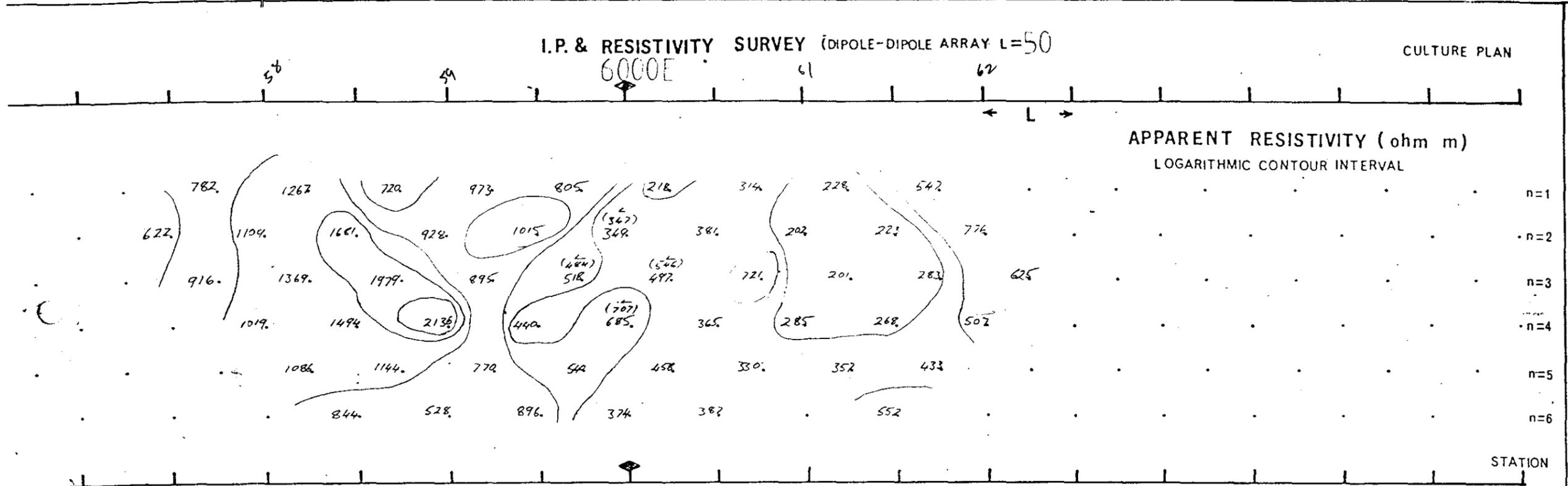
734025



I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

CULTURE PLAN

6000E



TRANSMITTER TYPE: Phoenix IPT-1B  
TIMING SEQUENCE: 2 sec on 2 sec off  
RECEIVER TYPE: Huntec Mk IV (Serial No. 10011)  
INTEGRATION TIME: 140 m/sec after cut off

ABERFOYLE EXPLORATION PTY. LTD.

AREA: QUE RIVER

LINE: 10600N

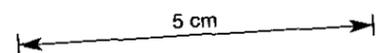
SCALE: 1:5000

DATE: 12-12-81

SOLO GEOPHYSICS AND COMPANY

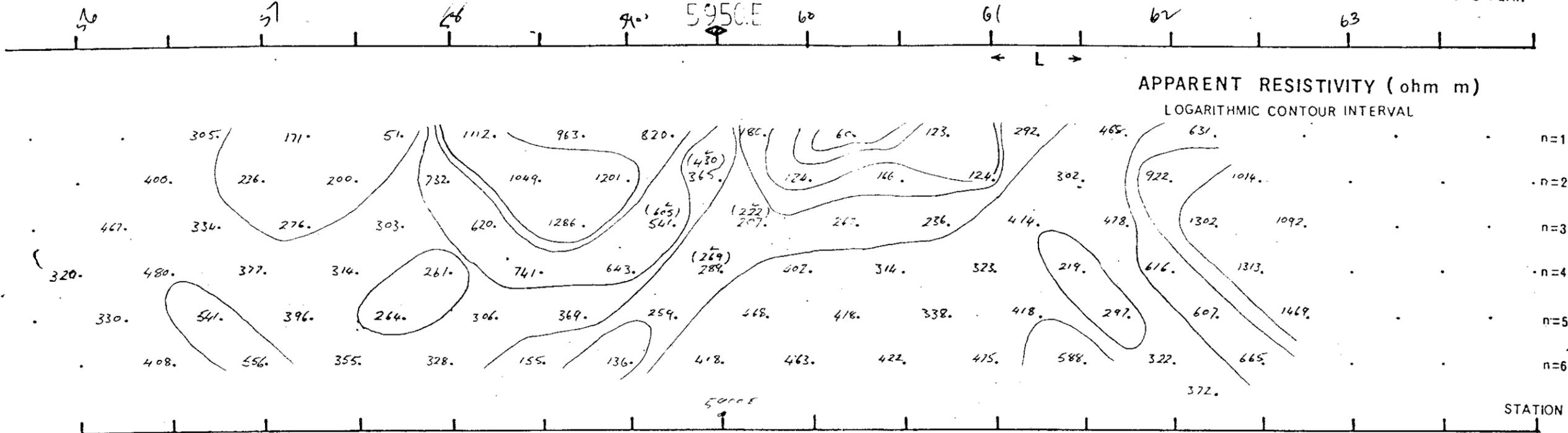
734026

82-1806



I.P. & RESISTIVITY SURVEY (DIPOLE-DIPOLE ARRAY L=50)

CULTURE PLAN



TRANSMITTER TYPE: Phoenix IPT- 1B  
 TIMING SEQUENCE: 2 sec on 2 sec off  
 RECEIVER TYPE: Huntec Mk IV (Serial No. 10011)  
 INTEGRATION TIME: 140 m/sec after cut off

ABERFOYLE EXPLORATION PTY. LTD.

SOLO GEOPHYSICS AND COMPANY

AREA: 34.9 QUE RIVER

LINE: 10700N  
 SCALE: 1:5000  
 DATE: 13-12-81

82-1806.

734027

APPENDIX II

LEAD ISOTOPE STUDIES

Division of Mineralogy  
 Delta Road, North Ryde, NSW, Australia

A Division of the Institute of Earth Resources

PO Box 136, North Ryde, NSW, Australia 2113  
 Telephone (02) 887 8566, (02) 887 8330  
 Telegrams Minre, Sydney : Telex AA25617

8 March 1982

Mr John Sise  
 Project Geologist for Tasmania  
 Aberfoyle Exploration Pty. Ltd.  
 P.O. Box 952  
 BURNIE TAS. 7320

Dear John,

This is a note to confirm our phone conversation on 5 March regarding isotopic analyses of anomalous C-horizon soil samples north of Que River mine.

1. Samples 263-523 to 263-528 - andesite/dacite anomaly - the isotope ratios for 5 samples are variable with the following ranges:

208/206	2.0743 - 2.0802
207/206	0.8375 - 0.8506
206/204	18.34 - 18.63

although the samples with the highest Pb concentration of 1350 and 550 ppm have isotope ratios which are similar to Que River ore, those with only 90 to 180 ppm have quite variable ratios (see following).

Interpretation: the Pb in the soil anomaly is derived by leaching of country rock material such as the volcanics; the highest Pb samples may be derived from small pockets of higher grade mineralization of the Que River type.

2. Samples 251-341 to 251-346 - Slate anomaly - the isotope ratios of 5 samples are homogeneous and very similar to those in the P lens at Que River.

	<u>Slate Anomaly</u>	<u>Que River</u>
208/206	2.0834 - 2.0858	2.0820 ± 0.0009
207/206	0.8525 - 0.8539	0.8520 ± 0.0002
206/204	18.29 - 18.30	18.34 ± 0.01

In contrast to the andesite anomaly, even the samples containing only 55 and 110 ppm Pb have the same isotope ratios.

- 2 -

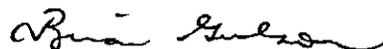
Interpretation: the Pb in the soil anomaly is derived from mineralizing solutions which are the same as those at Que River. We have only observed such homogeneous ratios in major base metal orebodies and would recommend further exploration of this anomaly.

On the other hand, a homogeneous isotopic anomaly may also arise from large, low-grade (disseminated) base metal accumulations although we have yet to test one of these case histories. In view of the isotopic variations observed in the nearby andesite anomaly, the disseminated explanation may be untenable.

I was happy to hear that our results for the andesite anomaly are consistent with your findings and wish you the very best of success in your present drilling of the slate anomaly.

Look forward to hearing from you.

Kind regards,

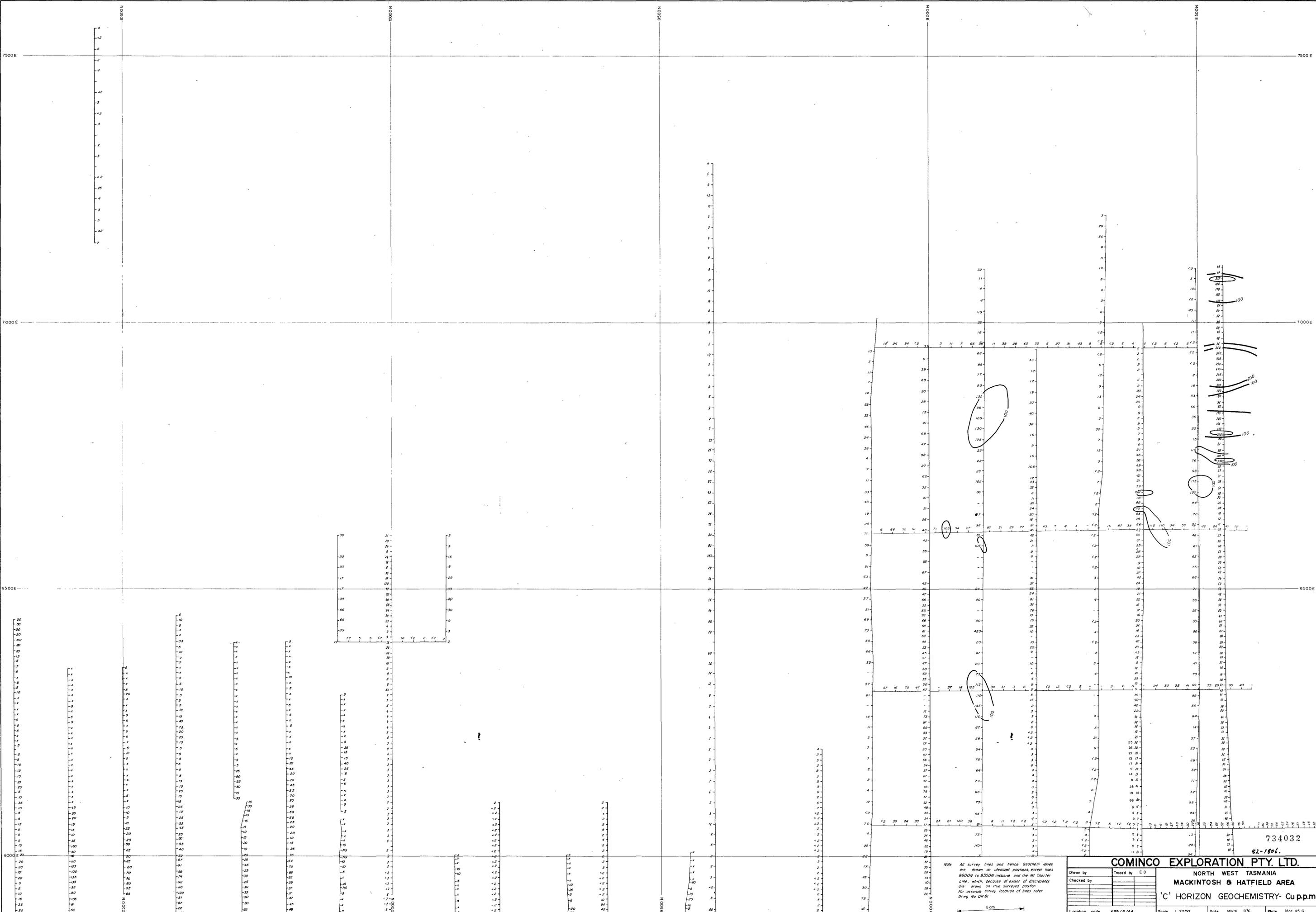


Brian Gulson.

QUE RIVER SAMPLES (HAND AUGER OF C-HORIZON CLAYS)

734031

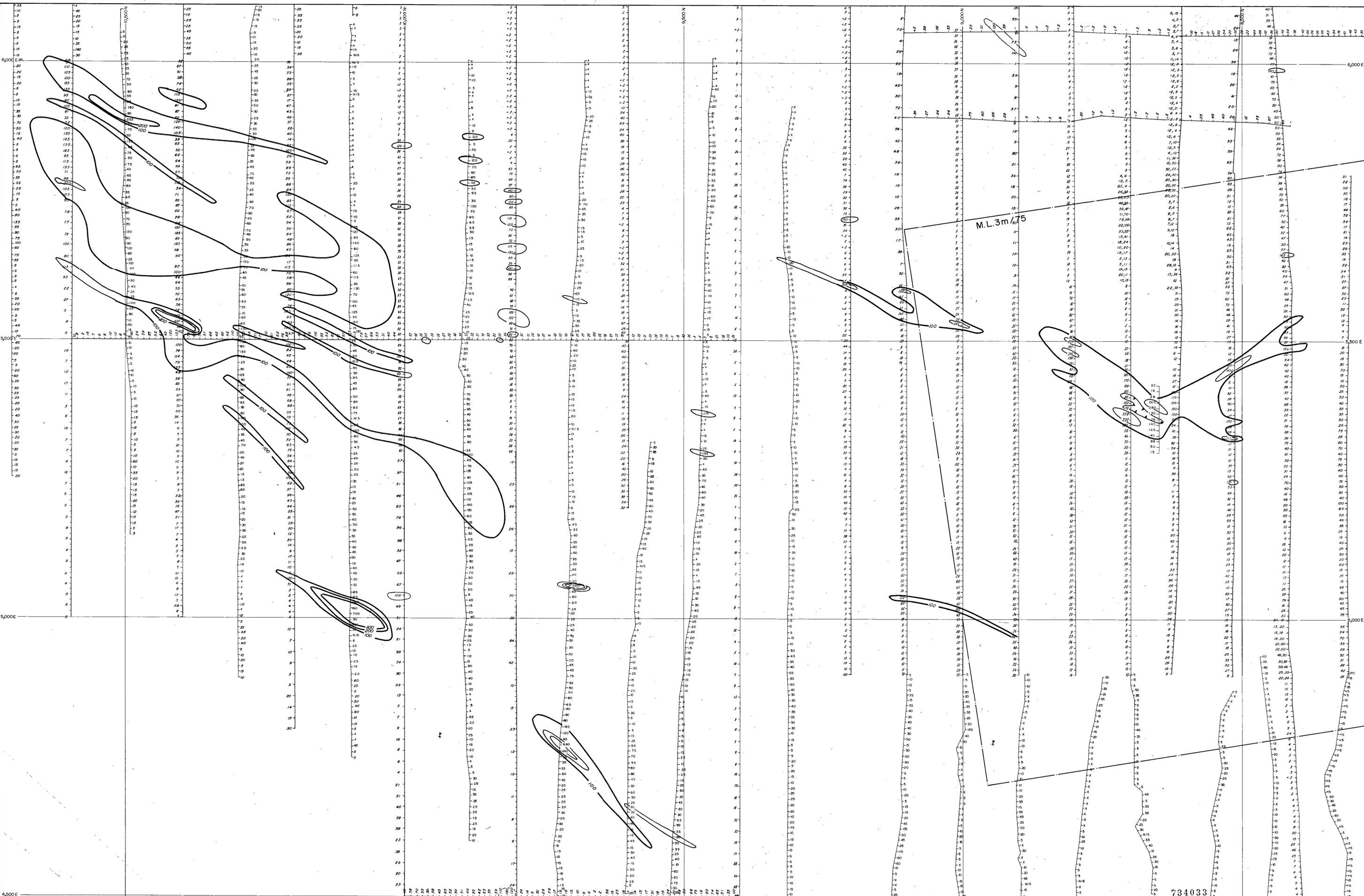
SAMPLE No.	NORTHINGS	EASTINGS	Pb	Zn	Cu	(in ppm)
251 341	10200	6180	995	110	10	} QUE RIVER SLATE ANOMAL "ANOMALY 17"
342	"	6190	110	30	X	
343	"	6200	250	30	X	
344	"	6210	55	25	X	
345	"	6220	425	45	X	
51 346	"	6230	120	35	X	
263 523	10500	5720	90	780	70	} ANOMALY IN ANDRUSITE / DALITE "ANOMALY 15"
524	"	5710	1350	475	170	
525	"	5700	105	470	130	
526	"	5690	550	250	80	
527	"	5680	180	530	90	
528	"	5670	700	250	120	



Note: All survey lines and hence Geochem values are drawn on idealized positions, except lines 8600N to 8300N inclusive and the Mt Charter Line, which, because of extent of discrepancy are drawn on true surveyed position. For accurate survey location of lines refer Drawg No QR 811.

<b>COMINCO EXPLORATION PTY. LTD.</b>	
NORTH WEST TASMANIA	
MACKINTOSH & HATFIELD AREA	
'C' HORIZON GEOCHEMISTRY- Cu p.p.m.	
Drawn by	Traced by E.D.
Checked by	
Location code	K55/6/44
Scale	1:2500
Date	March, 1976
Plate	Mac 45 G

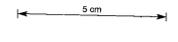
734032  
82-1806



M.L. 3m/75

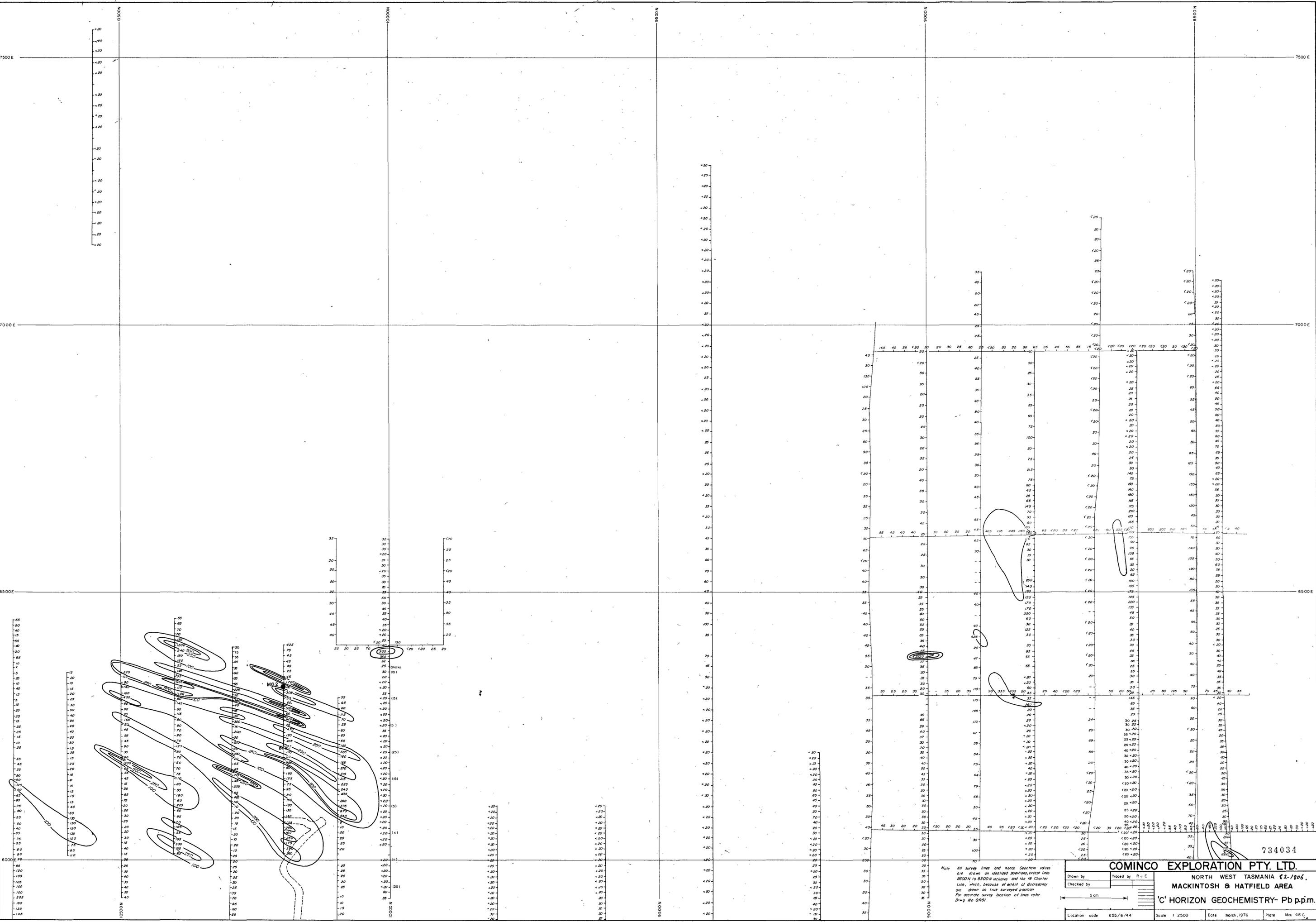
734033

All survey lines (see 1981) are shown on admitted positions around lines 7300N, 8300N and the Mt. Charter, etc.  
 All 1981 survey lines shown in this section, measured by chain & compass.  
 The accurate survey location of the 1981 lines see Drawing No. OH 81  
 Details for 1981 work, contained by ANLARS, Coode, Tas. Method AAS 1



Contour intervals are 100ppm & 200ppm

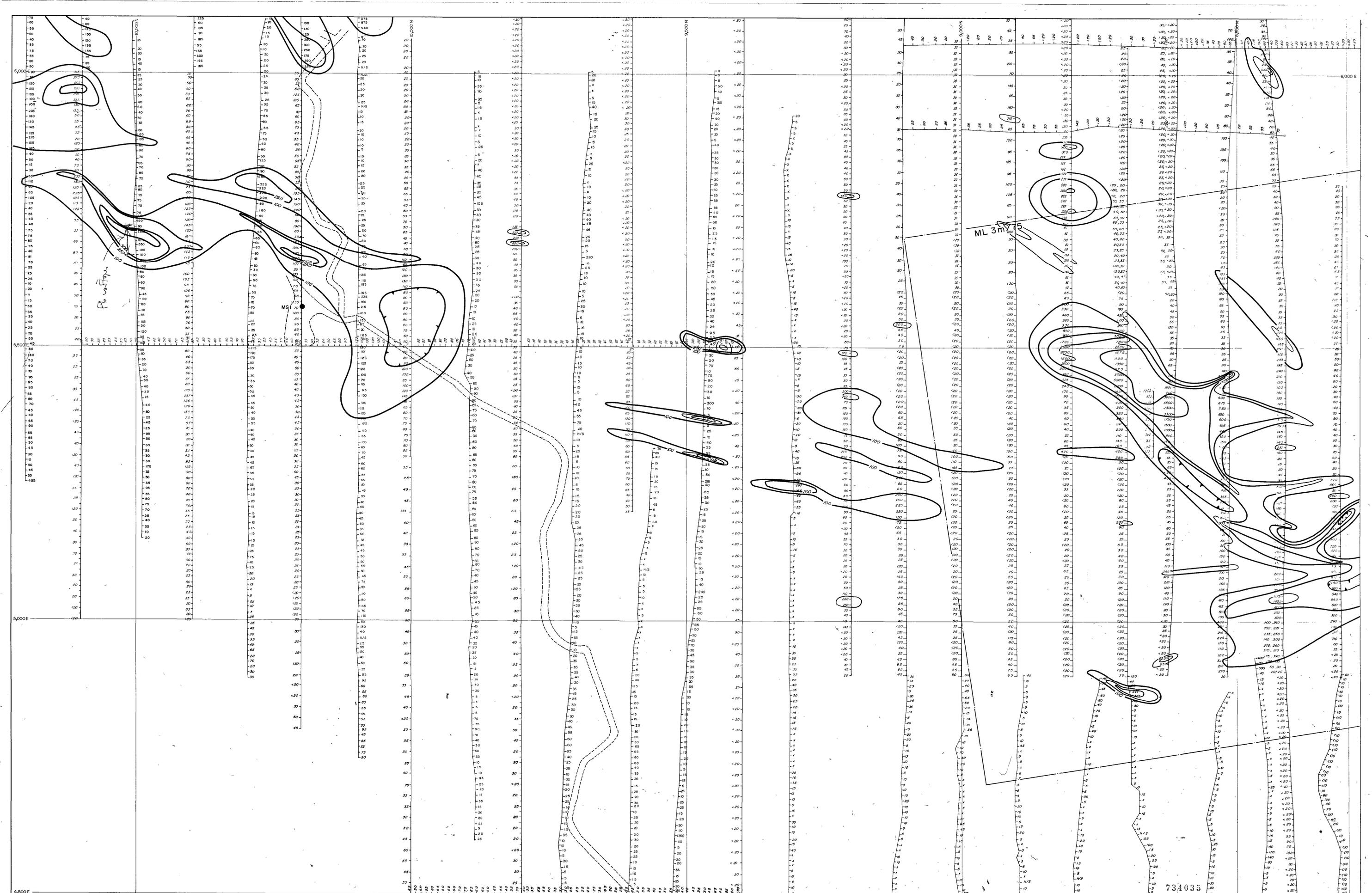
<b>Aberfoyle Exploration Pty Ltd 12-1986</b>	
Drawn by	Traced by E.D.
Checked by	
APL	
FLK	
Location code	K55/G/44
NORTH WEST TASMANIA MACKINTOSH & HATFIELD AREA <b>'C' HORIZON GEOCHEMISTRY - Cu ppm</b>	
Scale	1:2,500
Date	SEPTEMBER 1985
Plate	Mc 45 H



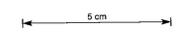
Note: All survey lines and hence Geochem values are drawn on idealized positions, except lines 8500N to 8500N inclusive and the 1st Charter Line, which, because of extent of discrepancy are drawn on true surveyed position. For accurate survey location of lines refer Dwg No GR81.

<b>COMINCO EXPLORATION PTY. LTD.</b>	
Drawn by	Traced by R J E
Checked by	
NORTH WEST TASMANIA 12-1986, MACKINTOSH & HATFIELD AREA	
'C' HORIZON GEOCHEMISTRY- Pb p.p.m.	
Location code	K55/6/44
Scale	1:2500
Date	March, 1976
Plate	Max 46 G

734034



All survey lines Pre 1961 are drawn on idealised positions except lines 5000' - 5300' and the Mt. Charter Line  
 All 1961 survey lines shown in this position, measured by chain & compass for accurate survey location of 1961 lines see Draw. No. 07/01  
 Except for 1961 work, completed by M.V.L. & Co., Geve, Tas. March 1957

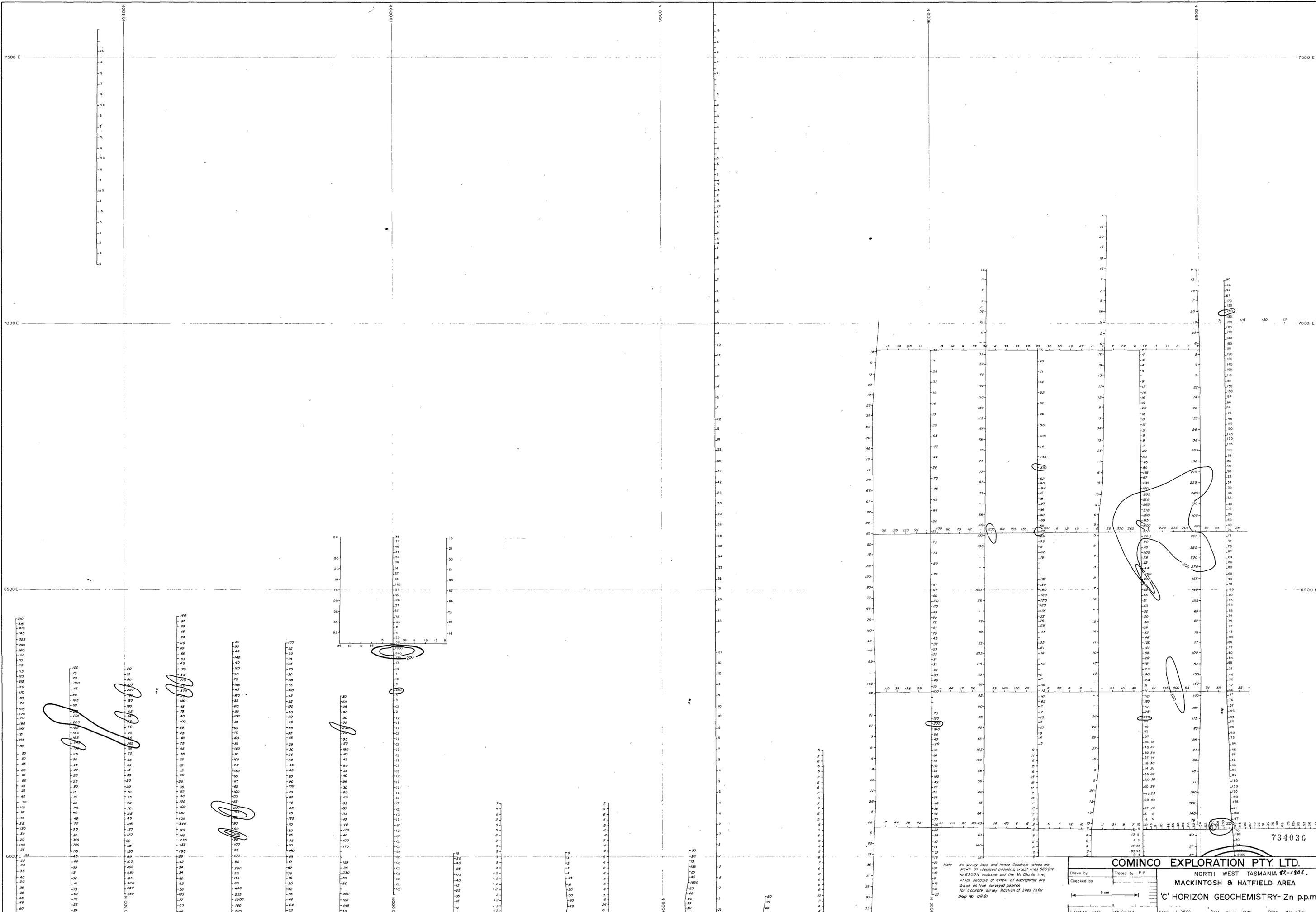


734035

**Aberfoyle Exploration Pty Ltd 82-180C.**

NORTH WEST TASMANIA  
 MACKINTOSH & HATFIELD AREA  
 'C' HORIZON GEOCHEMISTRY - Pb ppm

Drawn by Checked by Date Location code K55/6/44	Traced by R.F. Date Scale 1:2,000 Date September 1975 Plot Mac 46 H
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734036

**COMINCO EXPLORATION PTY. LTD.**

NORTH WEST TASMANIA 42-106.  
MACKINTOSH & HATFIELD AREA

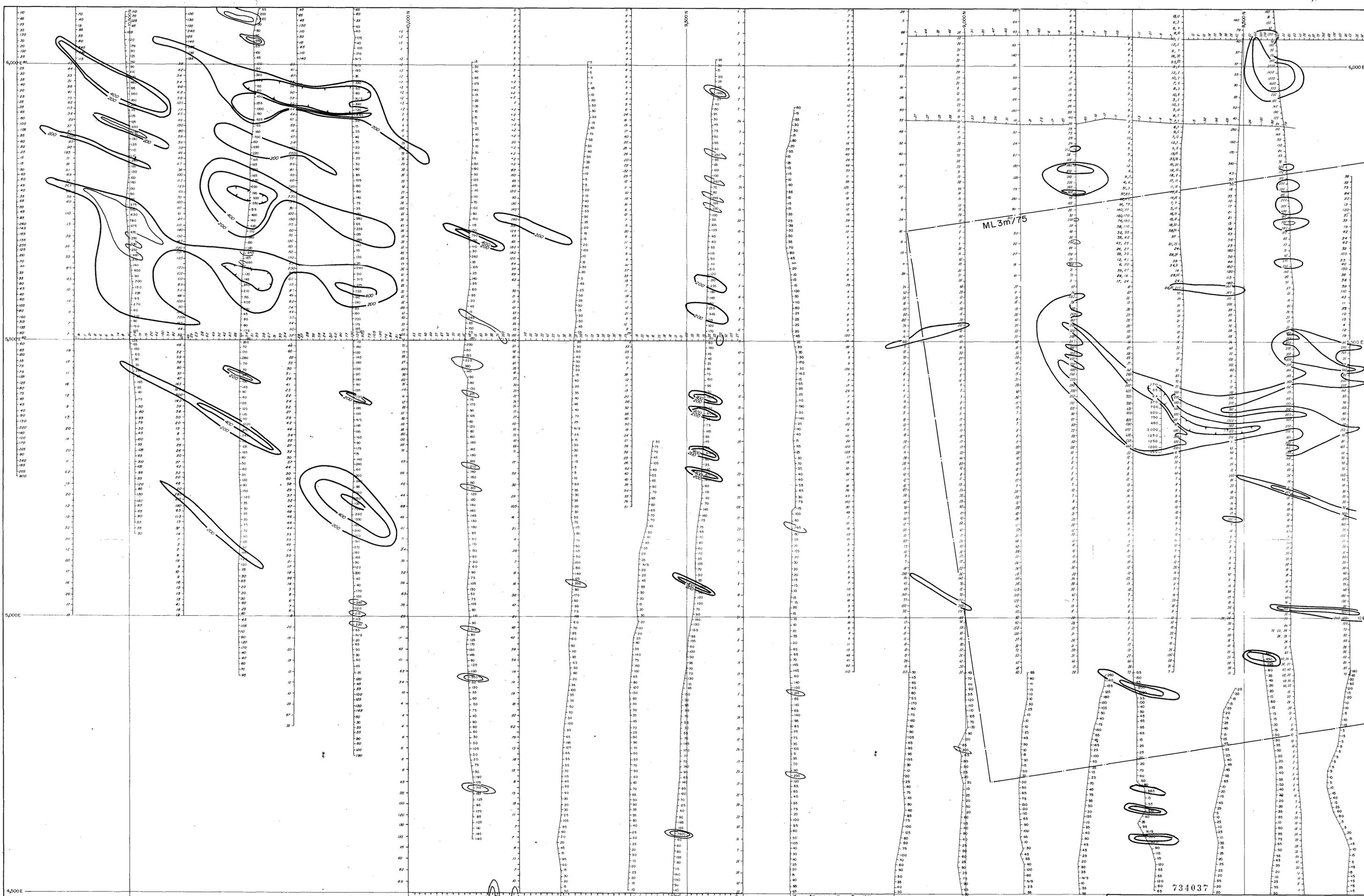
'C' HORIZON GEOCHEMISTRY- Zn p.p.m.

Drawn by: [ ] Traced by: P F  
Checked by: [ ]  
Location code: K55/6/44

Scale: 1:2500

Date: March 1976 Plate: Mac 47 G

Note: All survey lines and hence Geochem values are drawn on idealized positions, except lines 8600N to 8300N inclusive and the Mt Charter line, which because of extent of discrepancy are drawn on true surveyed position. For accurate survey location of lines refer Draw No DR81



All survey lines Pre 1981 are drawn on double-dotted lines except lines 8000N - 8300N and the Mt. Charter Line. All 1981 survey lines shown in true position, measured by chain & compass. For accurate survey location of Pre 1981 lines see Drawing No. GP 01. Assays for 1981 work, completed by ANALABS, Coode, Tas. Method AAS 1.

Contour interval are 200 & 400ppm

734037

**Aberfoyle Exploration Pty Ltd**

NORTH WEST TASMANIA 84-1906

**MACKINTOSH & HATFIELD ZONE**

**'C' HORIZON GEOCHEMISTRY- Zn ppm**

Drawn by	Traced by E.D.
Checked by	
DATE	
SCALE	
LOC. NO.	
LOC. CODE	K55/6/44

Scale 1:2,500 Date September 875 Plate Mac 47 H