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CRA EXPLORATION PTY LIMITED

LEIGH RIVER EL 12/80

PROGRESS REPORT FOR PERIOD JULY 1984 - JANUARY 1985

DATE	A.O.	E.	E.O.	FILE
				Program
C.D.S.	09 AUG 1985			E & IL
	DEPT. OF MINES			
REF. No.	8443/85			

Date: 11 January 1985  
 Author: D J Weir  
 Submitted to: T W Dickson  
 Accepted by: *TW Dickson*  
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 Tasmania  
 Geopeko

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Report No. 13053

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## 1. SUMMARY

Nine aeromagnetic anomalies, LEIGH, LEIGH SOUTH, RIVER, RIVER SOUTH, ODD, END, TRIB, SOURCE and STRIKE reported on previously, were further tested by a Genie ground EM survey. Results precluded the presence of any conductors attributable to sulphides. One minor conductor interpreted at a depth of 80m was obtained adjacent to the STRIKE tungsten anomaly, (130 ppm W maximum) and coincident ground magnetic anomaly. 3.2 Km of grid (800m x 200m) has been established over this STRIKE anomaly in preparation for soil sampling.

One reconnaissance grid line was established at the Bridge aeromagnetic anomaly and tested by 'C' horizon soil sampling, Genie EM and ground magnetics. Ground magnetics and mapping delineated the outline of the altered Cambrian basalt whilst soil geochemistry indicated anomalous lead 4050 ppm, zinc 1100 ppm and gold 50 ppb at the northern margin of the basalt.

Anomalous levels of copper (560 ppm), zinc (125 ppm), manganese (2800 ppm) and gold (65 ppb) were reported within the basalt. These assay results are the best obtained from the Rocky Cape Block.

## 2. INTRODUCTION

This report outlines exploration completed within the Licence area EL 12/80 during the period July 1984 to January 1985.

A Genie EM survey was used to test nine aeromagnetic anomalies, reported on previously (Weir 1984) for presence of sulphides and to upgrade them to drill targets.

Re-evaluation of the Bridge aeromagnetic anomaly with regard to its geological setting and an unexplained 300 ppm lead stream sediment anomaly prompted a reconnaissance grid line to be cut, soil sampled, ground magnetics and Genie EM to be completed.

### 3. CONCLUSIONS

The Genie EM system proved to be a valuable reconnaissance EM technique. The survey failed to upgrade all but one of the targets tested in the Leigh River Licence area.

Reconnaissance exploration at the Bridge anomaly indicated anomalous soil geochemistry Pb, Zn, Au, Mn at the margins of a faultbound, altered Cambrian basalt and anomalous Cu, Au, Mn soil values over the basalt. Two possible styles of mineralisation are proposed: Beşshi style mafic volcanic hosted Cu-Zn-Au mineralisation within the basalt and Carbonate hosted Pb-Zn mineralisation at the Northern margin. The Southern margin is incompletely tested owing to alluvial cover.

### 4. RECOMMENDATIONS

#### 4.1 Strike Anomaly

Exploration at this anomaly should be completed since a grid has already been established. This would involve 'C' horizon soil geochemistry, ground magnetics and depending on results, an EM survey.

#### 4.2 Bridge Anomaly

The aeromagnetic anomaly warrants extensions to the grid at 400m intervals with subsequent 'C' horizon soil geochemistry and ground magnetics.

- 3 -

Line 5000E should be extended to the north to cover the possible EM conductor at the northern end and to the south to cover a 300 ppm Pb stream sediment anomaly.

The Bridge aeromagnetic anomaly extends outside the existing title area of EL 12/80. Should further encouragement be obtained from the grid extensions then title should be secured.

#### 4.3 Drainage Anomalies

Five drainage anomalies reported previously (Weir 1984) remain to be followed up.

### 5. GEOPHYSICS

Nine aeromagnetic anomalies, LEIGH, LEIGH SOUTH, RIVER, RIVER SOUTH, ODD, END, TRIB, SOURCE and STRIKE (Plan TASH 2453) were tested with a Genie EM survey to upgrade them to drill targets (Plans TASH 2282 to 2289). Full details of the survey together with an interpretation is included in Appendix 1. Suffice to say that no conductors indicative of sulphides were obtained. One weak conductor at the STRIKE anomaly requires follow up (cf section 6).

### 6. STRIKE ANOMALY

A weak EM conductor interpreted at a depth of 80m was obtained at 7250E/5000N at the Strike anomaly (Plan TASH 2288). The conductor is slightly offset from a coincident tungsten soil geochemical anomaly (130 ppm W max) and a ground magnetic anomaly. The tungsten soil anomaly has been resampled and its anomalous nature confirmed (Weir 1984).

3.2 Km of grid has been established on a 200m x 800m basis centered at 7200E/5000N in preparation to soil sampling, mapping and ground magnetics. This work should be completed (Plan TASH 2453).

#### 7. BRIDGE ANOMALY

Attention was focused on this anomaly by an elongate (4Km x 1Km) aeromagnetic high delineated by the RTZ 1956 aeromagnetic survey. This anomaly is underlain by Cambrian basalt which exhibits a variety of alteration styles. Previous petrographic examination of this basalt (Weir, 1983) shows epidote, carbonate and prehnite alteration and evidence of spilitic textures. Native copper, pyrite and magnetite are common accessory minerals. The possibility of a Besshi style of ore setting could not be ignored.

Previous minus 80 mesh stream sediment work (Weir, 1983) failed to repeat an 800 ppm Sn anomaly reported by Porter 1977 but outlined a 300 ppm Pb anomaly upstream of the Leigh River bridge. Further sampling failed to repeat this anomaly.

Two reconnaissance grid lines of 'C' horizon soil geochemistry, ground magnetics and Genie EM surveying was completed to test the basalt and its margins for Pb-Zn mineralisation.

#### 7.1 Geology (Plan TASH 985)

The geological succession in this area is as follows:-

Cambrian	Basalt and associated tuffaceous sediments
----------	--

Precambrian      Dolomite - chert Smithton dolomite equivalents  
                  Quartzite  
                  Black shale  
                  Green banded siltstone

The basalt and associated tuffaceous sediments form a faultbound erosional remnant of unknown thickness which is of the same age and composition as the main NE-SW trend of basalts in the central part of the Smithton trough. The basalt is characterised by epidote and carbonate alteration observed at the Leigh River bridge whilst prehnite alteration is evident further to the east along Sumal Road, Spur 10. Pyrite, magnetite and native copper are common accessory minerals. The margins of the basalt are characterised by a silicified alteration zone which could represent altered dolomite.

Evidence of faulting is fourfold:-

- (a) Recognition of a WNW-ESE trending photo lineament which abruptly terminates quartzites to the southeast.
- (b) The change in structural attitude of rocks mapped in the Leigh River from a regional NE trend to a WNW-ESE trend in the vicinity of the basalt.
- (c) Apparent termination of the black shale belt north of the basalt. To the south, the rocks comprise a monotonous sequence of green chloritic banded siltstones, though it should be noted that gradational contacts between the black shales and green banded siltstones have been observed in road cuttings outside the NE corner of the Licence area.

- (d) Evidence of chloritic phyllites outcropping in the Lindsay River at the Western end of Sumal Spur 10. These rocks may represent sheared equivalents of the green banded siltstones and are unusual in that no other occurrences have been observed in the Rocky Cape Block.

## 7.2 Soil Geochemistry

Sixty seven 'C' horizon soil samples were collected by hand auger at 25m intervals along cut lines trending 350° magnetic whose origin 5000N/5000E is at 5427140mN 333690mE. Soil samples were dried, sieved to -80# and analysed by ALS Laboratories in Brisbane. Full analytical details are located in Appendix II.

Results are plotted in profile form (Plans TASH 2455 & 2691). Assay results indicate that anomalous levels of copper (max 560 ppm), zinc (max 125 ppm), manganese (max 2800 ppm) and iron (max 23.7%) define the area of basalt outcrop. Relatively low levels of nickel and cobalt (max 140 ppm) also define the basalt outcrop.

Spikey, anomalous gold values (max 65 ppb) characterise the southern margin of the basalt.

On the northern margin of the basalt, anomalous lead (max 4050 ppm), zinc (1100 ppm) and gold (max 50 ppb) together with elevated manganese nickel and cobalt form an anomalous zone approximately 200m wide over cherts and quartzites. This zone might represent a silicified stringer zone related to the basalt or alternatively carbonate hosted Pb-Zn mineralisation. These results represent the best geochemical values obtained from the Rocky Cape Block.

7.3 Rock Chip Geochemistry

A suite of Cambrian basalts collected from the Leigh River bridge were submitted for XRF scans and precious metal analysis. All samples were altered to varying degrees, the most extreme being an epidote rich green coloured variety. The others were slightly to moderately carbonatic, one strongly pyritic.

Results (Appendix II) indicate enriched Sr, Y, Zr and Nb, low Pb, Co and Ni; Pt, Pd and Au values all very low or below detection limit.

7.4 Geophysics

A Genie EM survey together with ground magnetics was completed over the reconnaissance grid line. Details are located in Appendix I.

7.4.1 Genie EM Survey (Plan TASH 2286)

The EM survey shows a broad zone of more conductive surface material between 4800N and 5375N which does not correlate well with the basalt outline. A possible broad conductor is centered at 5450N but is incomplete. A high frequency response located at 4700N is attributed to swampy ground.

7.4.2 Ground Magnetics (Plan TASH 2431)

Ground magnetic readings were collected at 12.5m intervals along the line in order to define the basalt outcrop. A spikey anomaly (maximum 1000nT) obtained between 4800N and 5100N correlates reasonably well with the basalt outcrop.

8. LOCATION

Burnie SK55-3 1:250 000 Sheet

9. KEYWORDS

Geophysics - airborne magnetics, ground magnetics,  
ground EM

Assays - surface. Precambrian siltstones, quartzite,  
black shale, carbonates, Cambrian basalt -  
altered, epidote, carbonate. Besshi type  
mineralisation

10. LIST OF PLANS

<u>TASh No</u>		<u>Scale</u>
✓2453	Rock chip, grid line and aeromagnetic anomaly locality plan	1:20 000
✓2282	Genie EM Profile Odd & End anomaly	1:5 000
✓2283	" River anomaly	"
✓2284	" Trib anomaly	"
✓2285	" Leigh South and River South anomaly	"
✓2286	" Bridge anomaly	"
✓2287	" Leigh anomaly	"
✓2288	" Source anomaly 6450-7850E	"
✓2289	" Source anomaly 5050-6450	"
✓985	Geology Plan	1:100 000
✓2454	Bridge anomaly - Grid Location & Sample location plan	1:10 000
✓2455	Bridge anomaly - Geochemical profiles	1:5 000
✓2431	Bridge anomaly - Ground magnetic profile, Line 5000E	1:5 000
✓2691	Bridge anomaly - Geochemical Profiles Line 5800E	1:5 000



APPENDIX I

GROUND GEOPHYSICS ON THE LEIGH RIVER

EL 12/80

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IN REPLY PLEASE QUOTE

MEMO TO :D.J. WEIR  
COPY TO :T.W. DICKSON

MEMO FROM :T. VON STROKIRCH

SUBJECT: GROUND GEOPHYSICS ON THE LEIGH RIVER AREA EL  
12/80

As ground follow up on the Leigh river anomalies a program of geological mapping, ground geophysics and geochemistry was performed. The geophysics consisted of ground magnetic readings taken at 12.5 metre stations along all the lines excepting the Bridge anomaly. This served to prove that the lines were positioned correctly on the airborne magnetic anomalies. The lines were then surveyed with the GENIE reconnaissance ground EM system during October 1984. Readings were taken at 25 metre spacings using two frequency pairs (337Hz/112Hz and 3037Hz/112Hz) and a receiver/transmitter spacing of 100 metres. A line by line report follows.

LEIGH ANOMALY  
-----

The line proved to be geophysically uninteresting. There might possibly be a deep conductor at 4150E but its amplitude is only about .5% which is certainly within the noise envelope. The magnetic anomaly is centred at 4890E. This is associated with a change in surface conductivity with more conductive material being found to the west. This may indicate the presence of a fault. There is no sign of a conductor so as the magnetic anomaly appears to be at less than 100 metres depth it is presumably not due to sulphides.

RIVER ANOMALY  
-----

When the EM is inspected it is found that it is again difficult to resolve any conductive anomaly from the noise.

A possible conductor occurs at 5300E but it has an amplitude of only 0.75%. The magnetic anomaly in this case appears to approach with in 50 metres of the surface and as it has no associated conductor is considered unlikely to be due to a predominantly sulphitic source.

#### EEIGH SOUTH ANOMALY

-----

The high frequency response at the eastern end of the line is particularly noisy indicating highly variable surface conductivity probably reflecting relatively swampy terrain. The maximum variation over the whole of the line is only 2% which leaves little room for conductors. Possible features occur at 4875E, 5250E and 5400E. None of represent strong conductors and all must be within 50 metres of the surface. The feature at 5250E coincides with a sharp dip in the magnetic response so it may be a real anomaly most probably associated with a fault.

#### SOURCE ANOMALY

-----

The amplitude of the low frequency response is again only 2% which indicates that we do not have any major conductors on this line. There may be conductors at both ends of the lines though the one at the western end is likely to be a surficial weathering feature and the one in the east is most likely to be due to a pronounced thickening of the surface cover, perhaps basalt. Other possible conductors occur at 5450E which if real is at approximately 60 metres depth and at 7250E which must be at at least 80 metres depth. These features do not coincide with any magnetic anomalies.

#### ODD END ANOMALY

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Nothing of interest geophysically speaking.

#### TRIB ANOMALY

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The magnetic peak is at 5750E. This is not associated with any conductors. A possible conductor is at 5260E. This is probably not real but if it is it is at a depth of 50-70 metres dipping to the east.

#### BRIDGE ANOMALY

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This line is situated across a basalt which seems to show up as more conductive surface material between 4800 $\Omega$  and 5375 $\Omega$ . There is a shallow conductor at 4720 $\Omega$  but it has a depth extent of less than twenty metres. It is perhaps due to shallow fracturing in the rocks under the swamp. At 5450 $\Omega$  there is a broader conductor (width 40 metres) but the basalt obscures one edge and the line does not cover the other edge so it is not possible to give a quantitative interpretation of it.

#### CONCLUSIONS

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The geophysics gives a generally negative picture of the area as far as the possibility of finding a sulphide ore body goes. Considerable encouragement would be needed from geochemistry to drill any of the possible conductors as none are likely to be due to large concentrations of massive sulphides though it is conceivable that some of the deeper responses are due to small disseminated bodies.

T. von Strokirch

APPENDIX II

GEOCHEMICAL ASSAY RESULTS AND LEDGERS

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CONSULTING ANALYTICAL CHEMISTS

## LABORATORY REPORT

Incorporated  
 in Queensland

Client: CRA EXPLORATION PTY. LIMITED  
 Address: LEVEL 4  
 BELLERIVE QUAY  
 BELLERIVE TASMANIA 7018

Page 1 of 4

Batch Number: K030

Contact: MR. G. CLIFT

No. of Samples: 42  
 Date Received: 04/10/84  
 Date Completed: 19/10/84

Order No. D.P.O. 31952

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
989858		40	25	40	10	5
989859		5	15	25	<5	<5
989860		5	15	20	<5	<5
989861		N.R.	N.R.	N.R.	N.R.	N.R.
989862		5	5	15	<5	<5
989863		5	10	15	<5	<5
989864		5	15	20	<5	<5
989865		10	20	25	<5	<5
989866		10	20	30	10	5
989867		10	15	40	5	5
989868		25	20	40	5	5
989869		90	35	80	40	45
989870		75	35	75	35	20
989871		95	35	95	45	60
989872		130	25	120	75	80
989873		135	30	95	70	140
989874		75	25	75	45	40
989875		560	20	70	135	55
989876		10	20	60	5	<5
989877		10	15	100	10	10
989878		5	5	25	<5	<5
989879		2	5	20	<5	<5
989880		5	15	20	<5	<5
989881		25	4050	20	<5	<5
989882		2	5	10	<5	<5
989883		2	35	20	<5	<5
989884		2	<5	15	<5	<5
989885		30	30	1100	430	125
989886		45	65	280	125	65
989887		35	10	85	40	40
Detection Limit:		2	5	2	5	5

Comments:

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in Queensland

Client: **CRA EXPLORATION PTY. LIMITED**  
Address: **LEVEL 4  
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BELLERIVE TASMANIA 7018**

Page 2 of 4

Batch Number: **K030**

Contact: **MR. G. CLIFT**

No. of Samples: **42**  
Date Received: **04/10/84**  
Date Completed: **19/10/84**

Order No. **D.P.O. 31952**

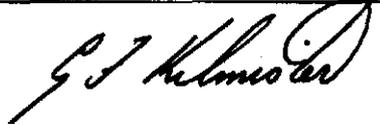
Sample Type: **SOILS**

SAMPLE NUMBER	Element Unit Method	As ppm IC580	Ag ppm IC580	Mo ppm IC580	Fe % IC580	Mn ppm IC580
989858		8	<1	5	2.97	150
989859		5	<1	<5	0.63	30
989860		6	<1	5	1.11	45
989861		N.R.	N.R.	N.R.	N.R.	N.R.
989862		2	<1	<5	0.23	15
989863		3	<1	<5	0.40	15
989864		4	<1	<5	0.48	20
989865		5	<1	<5	1.04	30
989866		8	<1	5	3.09	45
989867		5	<1	5	1.66	100
989868		6	<1	5	1.51	65
989869		12	2	5	17.4	980
989870		14	1	5	13.0	270
989871		9	1	<5	19.2	2250
989872		14	1	5	16.5	1750
989873		12	1	<5	17.0	1600
989874		12	1	<5	11.9	940
989875		14	1	5	14.8	1100
989876		5	<1	<5	1.60	65
989877		10	<1	<5	3.15	75
989878		4	<1	<5	0.61	25
989879		6	<1	<5	0.30	5
989880		6	<1	<5	0.29	10
989881		10	<1	10	0.44	15
989882		2	<1	5	0.25	15
989883		2	<1	<5	0.16	10
989884		<1	<1	5	0.20	15
989885		18	<1	<5	2.46	105
989886		6	<1	<5	3.05	4500
989887		6	<1	10	1.58	85

Detection Limit:	1	1	5	10	5
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BELLERIVE TASMANIA 7018**

Page **3** of **4**

Batch Number: **K030**

Contact: **MR. G. CLIFT**

No. of Samples: **42**  
Date Received: **04/10/84**  
Date Completed: **19/10/84**

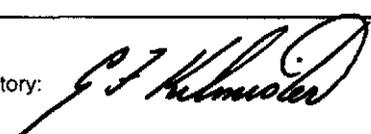
Order No. **D.P.O. 31952**

Sample Type: **SOILS**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
989888		75	65	90	55	40
989889		35	15	35	5	5
989890		45	30	40	15	10
989891		N.R.	N.R.	N.R.	N.R.	N.R.
989892		100	30	50	35	40
989893		75	30	95	45	15
989894		75	30	90	45	30
989895		65	30	105	25	40
989896		95	35	125	30	45
989897		180	30	105	45	40
989898		220	20	80	100	115
989899		440	20	110	100	105
Detection Limit:		2	5	2	5	5

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**BELLERIVE TASMANIA 7018**

Page **4** of **4**

Batch Number: **K030**

Contact: **MR. G. CLIFT**

No. of Samples: **42**

Date Received: **04/10/84**

Order No. **D.P.O. 31952**

Sample Type: **SOILS**

Date Completed: **19/10/84**

SAMPLE NUMBER	Element Unit Method	As ppm IC580	Ag ppm IC580	Mo ppm IC580	Fe % IC580	Mn ppm IC580
989888		22	<1	5	10.0	1350
989889		14	<1	<5	1.82	210
989890		20	<1	10	7.72	35
989891		N.R.	N.R.	N.R.	N.R.	N.R.
989892		14	<1	5	15.2	95
989893		14	1	5	14.4	135
989894		14	1	<5	15.2	610
989895		12	1	5	16.1	1450
989896		9	1	5	20.9	1850
989897		5	2	5	23.4	1050
989898		10	2	5	15.5	2800
989899		7	2	5	14.3	1950
Detection Limit:		1	1	5	10	5

Comments:



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Page 1 of 2

Contact: MR. G. CLIFT

Batch Number: K030-1

Order No. D.P.O. 31952

Sample Type: SOILS

No. of Samples: 42  
Date Received: 04/10/84  
Date Completed: 19/10/84

SAMPLE NUMBER	Element Unit Method	Au ppb PM204			
989858		5			
989859		15			
989860		<3			
989861		N.R.			
989862		3			
989863		5			
989864		<3			
989865		20			
989866		<3			
989867		3			
989868		20			
989869		<3			
989870		65			
989871		<3			
989872		45			
989873		5			
989874		45			
989875		3			
989876		10			
989877		<3			
989878		25			
989879		3			
989880		<3			
989881		<3			
989882		15			
989883		<3			
989884		10			
989885		50			
989886		5			
989887		5			

Detection Limit: 3

Comments:



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Contact: **MR. G. CLIFT**

Batch Number: **K030-1**

Order No. **D.P.O. 31952**

Sample Type: **SOILS**

No. of Samples: **42**  
Date Received: **04/10/84**  
Date Completed: **19/10/84**

SAMPLE NUMBER	Element Unit Method	AU ppb PM204			
989888		15			
989889		5			
989890		<3			
989891		N.R.			
989892		<3			
989893		<3			
989894		<3			
989895		20			
989896		5			
989897		5			
989898		<3			
989899		10			
Detection Limit:		3			

Comments:



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Signatory: *G J Khumala*

## LABORATORY REPORT

111023

Page 1 of 2

Client: **CRA EXPLORATION PTY. LIMITED**  
Address: **P.O. BOX 138  
ROSNY PARK TAS. 7018**

Batch Number: **G001**

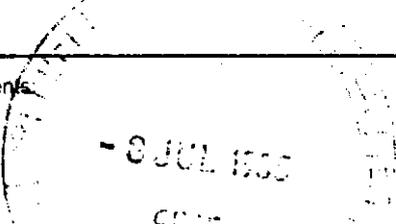
Contact: **MR. I. CLEMENTSON**

No. of Samples: **25**  
Date Received: **01/07/85**  
Date Completed: **04/07/85**

Order No. **DPO 35003**

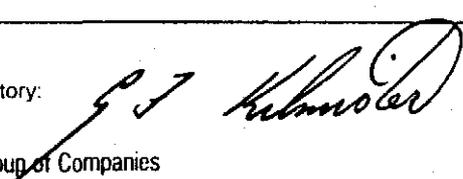
Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ag ppm IC580	As ppm IC580
950		115	25	80	4	<1
951		75	20	95	3	<1
952		95	15	65	3	<1
954		5	<5	40	<1	<1
955		5	<5	30	<1	<1
956		2	<5	30	<1	<1
957		2	<5	20	<1	<1
958		2	<5	40	<1	<1
959		2	<5	50	<1	<1
960		2	<5	25	<1	<1
961		2	<5	25	<1	<1
962		2	<5	55	<1	<1
963		2	<5	30	<1	<1
964		2	<5	35	<1	<1
965		2	<5	30	<1	<1
967		2	<5	30	<1	<1
968		115	20	90	2	<1
969		220	15	65	3	<1
970		110	25	55	2	<1
971		220	20	60	3	<1
972		185	20	55	2	<1
973		250	15	70	3	<1
974		65	25	30	2	<1
975		5	<5	30	<1	<1
976		5	<5	15	<1	<1
Detection Limit:		2	5	2	1	1

Comments: 



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Signatory: 

A Member of the Campbell Brothers Group of Companies

# Australian Laboratory Services PTY. LTD.

Office & Laboratory

32 Shand Street  
Stafford, Q. 4053  
PO Box 66,  
Everton Park, Q. 4053  
Phone: (07) 352 5577  
Telex: ALSEV 42344

CONSULTING ANALYTICAL CHEMISTS

## LABORATORY REPORT

111024

Incorporated  
in Queensland

Page 2 of 2

Client: **CRA EXPLORATION PTY. LIMITED**  
Address: **P.O. BOX 138  
ROSNY PARK TAS. 7018**

Batch Number: **G001**

Contact: **MR. I. CLEMENTSON**

No. of Samples: **25**  
Date Received: **01/07/85**  
Date Completed: **04/07/85**

Order No. **DPO 35003**

Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	Au ppb PM205	Au ppb CHECKS			
950		<3				
951		<3				
952		<3				
954		3				
955		<3				
956		3				
957		<3				
958		<3				
959		<3	<3			
960		<3				
961		<3				
962		<3				
963		<3				
964		<3				
965		<3				
967		<3				
968		<3				
969		5				
970		5	3			
971		5	5			
972		<3				
973		3				
974		3				
975		<3				
976		<3				
Detection Limit:		3				

Comments:



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Signatory:

Registered  
Laboratory  
No. 825

A Member of the Campbell Brothers Group of Companies

024  
R

SMANIA

# CRA EXPLORATION PTY. LTD.

Sample Number	LOCATION					ROCK TYPE							MINERALISATION							METAL CONTENT ppm / %							Geological Observations
	Co-ordinates AMG / Grid		Exposure	S. Type	Width (m)	Interval		Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	LOOK	Cu	Pb	Zn	Pb	Pd	Au				
	East	North				From	To																	ppb	ppb	ppm	
42114	333900	5426850	1	3				90		3																Green, epidote rich highly altered basalt	
42115		5426850	1	3				90		3	3	10														Pyritic, ? hematitic E basalt.	
42116	333900	5426850	1	3				90		3																Altered (slightly carbonatic) basalt.	
42117	333900	5426850	1	3				90		3																"	

XRF SCAN  
NO REF TO SAMPLE  
RESULT SHEET.

## GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT  
ANALYTICAL METHOD

Element Name: Rocky Cape EL1/77	Project: BASICS	AMG Zone: 55	Sheet No: 1 of 1.
Area / Prospect: Leigh River Camb Basalts.	DPO's: 30472		Laboratory: ALS
Map / Photo Ref: 7915 Arthur River	Sample No's: 1142114 - 1142117		Collected By: J. Weir Date: 26-9-83

111025





CONSULTING CHEMISTS & ANALYSTS

OFFICE & LABORATORY

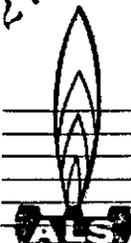
P.O. BOX 66

EVERTON PARK QLD 4053

LABORATORY REPORT

Ph 07 3525577

TELEX ALSEV 42344



Batch No.: J167-1      Client: CRA EXPLORATION PTY. LIMITED      Area Contact: MR. J. WEIR  
 Address: G.P.O. BOX 3840      Address: P.O. BOX 138  
 Date Received 26/09/83      MELBOURNE      ROSNY PARK.      TAS.      7018  
 Date Completed 10/10/83      VIC      3001

Order No.: DPO 30472      Sample Type: ROCK CHIP&P.CONC      No. of Samples: 60

SAMPLE NO.	*XRF*	ELEMENTS																			
	*SCAN*	UNITS																			
		METHODS																			
31	* XRF SCAN 4*																				
32	** 1142117 **																				
33	Major >5%																				
34	Minor 0.5-5%	Fe																			
35	Trc 0.05-0.5%	Ti	Mn																		
36	S/Trc 50-500m	Cr	Ba	Ni	Cu	Zn	Sr	Y	Zr												
37	Detected <50m	Co	Pb	Bi	Br	Rb	Nb	Sn	Sb	Ce	La										
38	Detected <50m	Ga	V																		
39	Detected <50m																				
40																					
41	* XRF SCAN 5*																				
42	** 1142118 **																				
43	Major >5%	Cr																			
44	Minor 0.5-5%	Fe	Ti																		
45	Trc 0.05-0.5%	Zn	Mn																		
46	S/Trc 50-500m	V	Ce	La	Co	Ni	Y	Zr	Sn	Ba											
47	Detected <50m	Cu	Rb	Sr	Nb																
48	Detected <50m																				
49	Detected <50m																				
50																					
51	* XRF SCAN 6*																				
52	** 1142119 **																				
53	Major >5%	Cr																			
54	Minor 0.5-5%	Fe																			
55	Trc 0.05-0.5%	Ti	Zn	Mn																	
56	S/Trc 50-500m	Co	Ni	Y	Zr	Sn	Ba														
57	Detected <50m	V	Ce	La	Cu	Ga	Rb	Sr	Nb												
58	Detected <50m																				
59	Detected <50m																				
60																					

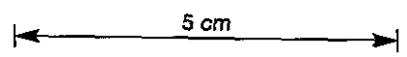
UNITS LEGEND ----- a - Parts per million      b - Parts per billion      % - percent  
 g - Grams      s - Absorbance

Signature: *G.J. Kilmartin*

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111028

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Soil to Bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
989858	5000	4550		A	10		90			1	orange yellow	B/C A	N				N					Water worn pebbles of chert
859		4575		A				100		1.2	grey	B/C A	N				N					
989860		4600		A			40	60		0.7	grey	B/C A	N				N					
861		4625																				Due to water in the hole no sample able to be taken
862		4650		A			40	60		0.6	Dark grey	C A	N				N					
863		4675		A			100			0.5	dark brown	C A	N				N					
864		4700		A			100			0.6	mid grey	C A	N				N					Auger stopped by bedrock or gravel bed
865		4725		A		20	80			0.4	dark grey	C A	N				N					" " " " " "
866		4750		A			100			0.5	grey	C A	N				N					
867		4775		A			50		50	0.2	dark grey	A B A	N				N					Swamp mud
868		4800		A	20		80			1.2	light grey	B/C A	N				N					Water worn pebbles of silicified siltstone
869		4825		A			60	40		1.2	red brown	B/C R	N				N					
989870		4850		A			100			1.2	orange brown	B/C R	N				N					
871		4875		A	5		45	50		1.2	red brown	C R	N				N					Small fragments of Fe rich weathered siltstone
872		4900		A			100			1.2	red brown	B/C R	N				N					
873		4925		A			100			1.2	brick yellow	C R	N				N					Small fragments of yellow clay embedded in red
874		4950		A	2		98			1.2	red brown	C R	S 4	BASL			N					
875		4975		A			50	50		1.2	red brown	B/C R	N				N					
876		5000		A	10		90			0.5	light brown	C R	S 2	SILT			N					
877		5075		A	40		60			0.6	yellow orange	C R	S 2	SILT			N					
878		5050		A	50		50			0.4	white	C R	S 1	CLAY			N					
879		5025		A	50		50			0.6	white	C R	S 1	CLAY			N					
989880		5000		A	50		50			0.7	light brown	C R	S 1	SILT			N					
881		5475		A	10		90			0.5	light brown	C R	S 1	BTZT			N					
882		5450		A	40		60			0.6	grey	C R	S 2	QTZT			N					

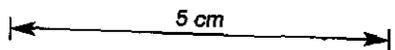


PROJECT Leigh River 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY CLIFT DATE 26.9.84  
 TENEMENT EL 19/80 SAMPLE NO.S 989858-882 LOCAL GRID CROSS REF 5000N/5000E  
 INVESTIGATION BRIDGE ANDRAILY DPO'S 3752 5427140mN 333690mE



111029.

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IS	Sample Type	Rock%	Sand%	Silt%	Clay%	Org %	Depth	Colour	Horizn	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration		Vis. Fin	Min. Type 1	Min. Type 2	Look
989883	5000	5425		A	50		50			1	Dark grey	C	R	S	2	CHER		N				Dark grey silt with veins of white gl.
884		5400		A	50		50			0.5	Dark grey	C	R	S	1	CHER		N				" " " " " "
885		5375		A				50	50	1.1	Dark grey	A	B	N				N				
886		5350		A	30	10	60			1	Dark grey	C	R	N				N				
887		5325		A	40	60				0.7	Dark grey	C	R	S	1	SSUD		N				
888		5300		A	5			95		0.5	Dark grey	C	R	S	1	SILT		N				
889		5225		A	2	20		78		0.9	Dark grey	C	A	N				N				
989890		5200		A	10			90		1.2	Yellow orange	C	R	S	3	SILT		N				siltstone black + indurated.
892		5175		A				100		1.2	Yellow orange	A	R	N				N				white clay as small discrete particles.
893		5150		A				100		1.25	orange brown	A	R	N				N				
894		5125		A				100		1	red brown	A	R	N				N				
895		5100		A				99		1.1	Red brown	C	R	S	3	BASL		N				
896		5075		A				99		1.2	Red brown	C	R	S	3	BASL		N				
897		5050		A	5			95		1.25	Red brown	C	R	S	3	BASL		N				
898		5025		A			30	70		1.2	red brown	A	R	N				N				
989899		5000		A	10	10		80		1	orange 7.2	C	R	S	2	BASL		N				



PROJECT Leigh River

TENEMENT EL 12/80

INVESTIGATION BRIDGE APPROACH

1:250000 SHEET Burnie St 55-3

SAMPLE NO.S 989883-899

DPO'S 3952

COLLECTED BY CLIFT DATE 26.9.84.

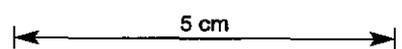
LOCAL GRID CROSS REF



030

# CRA EXPLORATION PTY. LTD.

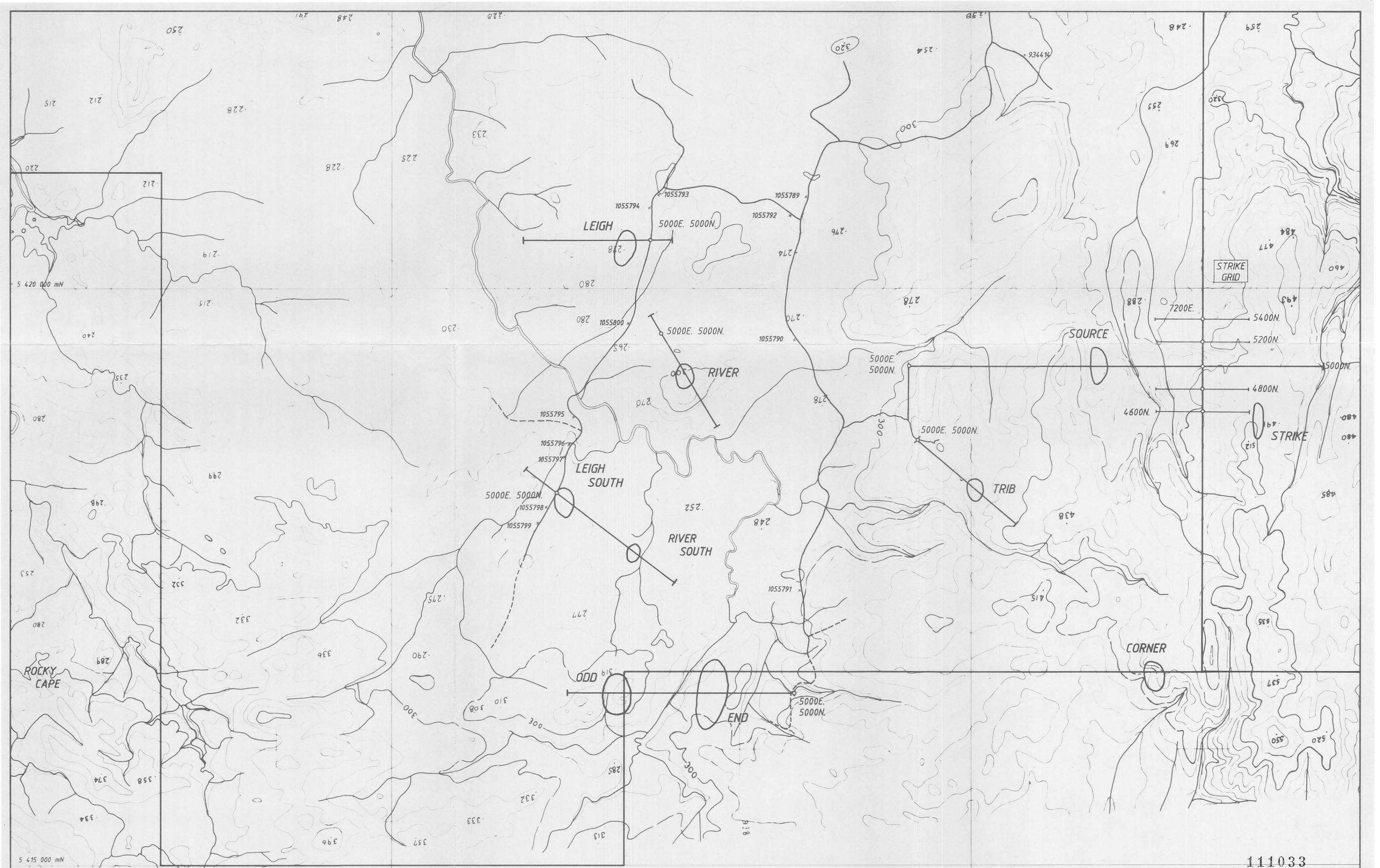
SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations				
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Au ppb									
1198950	5800	5025	-80# Dell	115	25	80	4	<1	<3							-7°	1.2m	Weak basalt
951		5050		75	20	95	3	<1	<3							-14°	1.2m	"
952		5075		95	15	65	3	<1	<3							-21°	1.2m	"
953		5100														-24°		Alluvial/colluvial stream bank debris
		5125														+8°		No sample
954		5150		5	<5	40	<1	<1	3							+21°		Black - dk light grey siltstone/shales
955		5175		5	<5	30	<1	<1	<3							+1°		Dk grey siltic (?) chert
956		5200		2	<5	30	<1	<1	3							+4°		Light silty "chert"
957		5225		2	<5	20	<1	<1	<3							0°		" "
958		5250		2	<5	40	<1	<1	<3							0°		White cherts
959		5275		2	<5	50	<1	<1	<3							-3°		" "
960		5300		2	<5	25	<1	<1	<3							-2°		" "
961		5325		2	<5	25	<1	<1	<3							0°		" " (? alluvial)
962		5350		2	<5	55	<1	<1	<3							0°		" "
963		5375		2	<5	30	<1	<1	<3							+21°		Light chert plus dark grey siltstone
964		5400		2	<5	35	<1	<1	<3							+24°		" "
965		5425		2	<5	30	<1	<1	<3							+11°		White chert
1198966	5800	5450														0°		" "



DETECTION LIMIT			
ANALYTICAL METHOD			
Project : ROCKY CAPE	1 : 250 000 Sheet : BURNIE	AMG Zone : 05 - 3	Sheet No. : 1 of 2
Tenement : LEIGH RIVER	DPO's : 35003	Laboratory : A.L.S.	
Area / Prospect : BRIDGE ANOMALY		Collected By : G. CHIT	Date : June 1985

111031

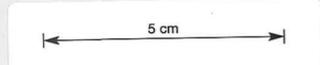




111033

CRA EXPLORATION PTY. LIMITED	
LEIGH RIVER E.L. 23/80 ROCK CHIP, GRID LINE, & AEROMAGNETIC ANOMALY CENTRE LOCALITY PLAN	
REF. S.K.55-3	
SCALE 1:20000	DRAWN RT
AUTHOR J.W.	REPORT No. 13053
DATE 14 - 1 - 1985	PLAN No. TASH 2453

—|— GRIDLINES  
○ AEROMAGNETIC ANOMALY CENTRES



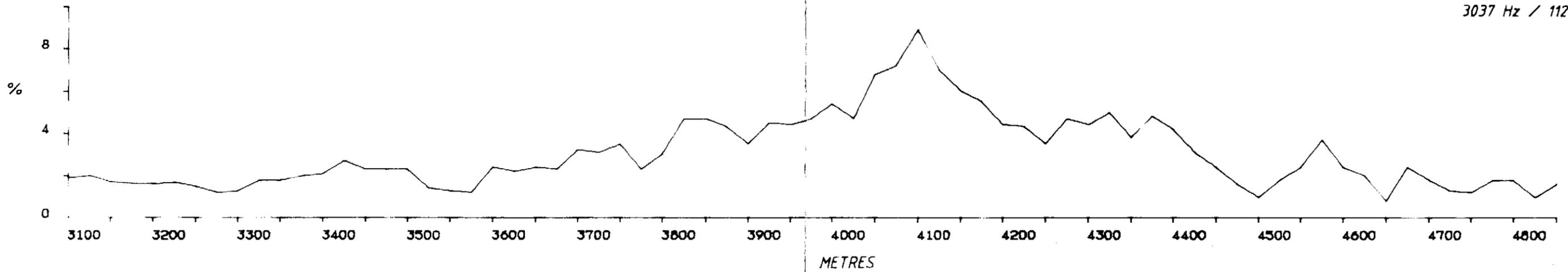
85-2461 346

335 000 mE

340 000 mE

# LEIGH RIVER: ODD END ANOMALY EM

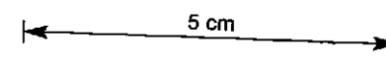
3037 Hz / 112 Hz



111034

CRA EXPLORATION PTY. LIMITED

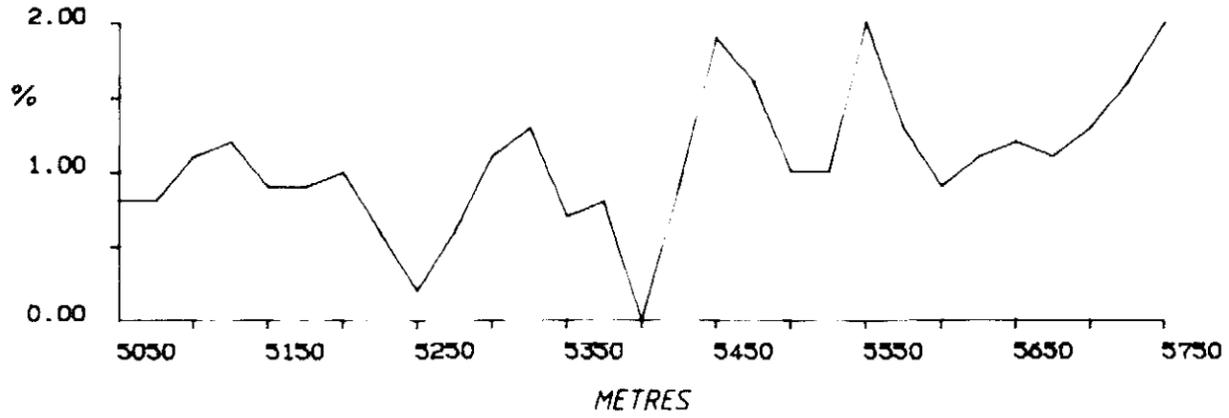
LEIGH RIVER E.L. 12/80  
 ODD END ANOMALY  
 GENIE PROFILES



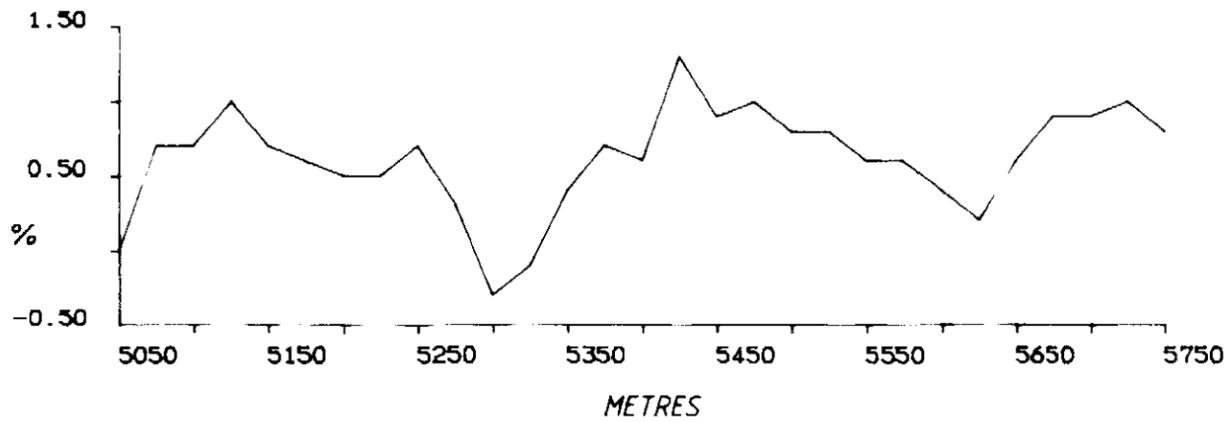
85-2461

REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13053
DATE	23 - 11 - 1984	PLAN No.	TASh 2282

LEIGH RIVER RIVER ANOMALY EM



3037 Hz / 112 Hz



337 Hz / 112 Hz

111035

CRA EXPLORATION PTY. LIMITED

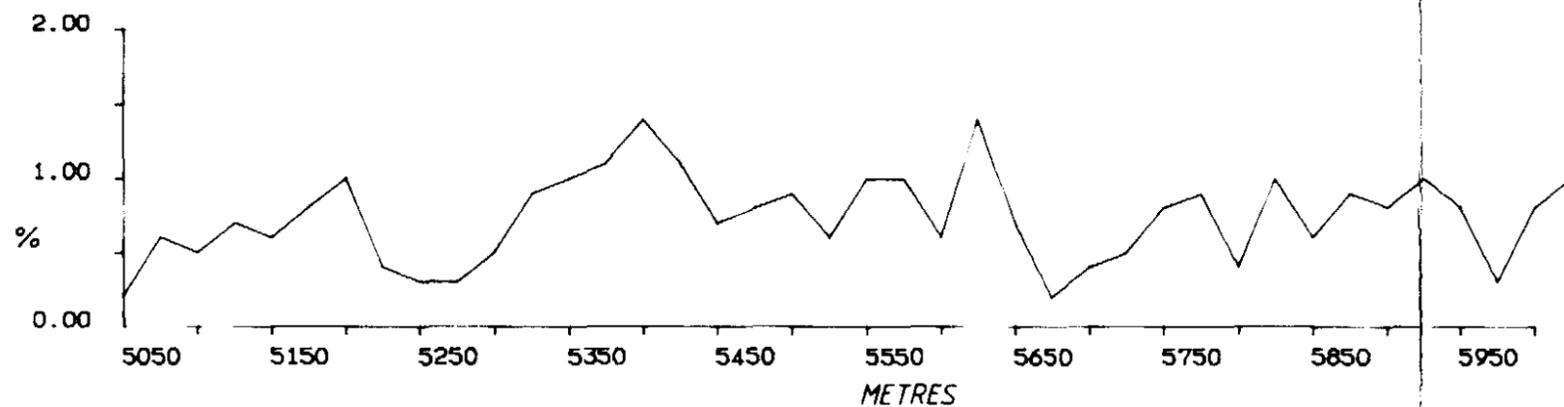
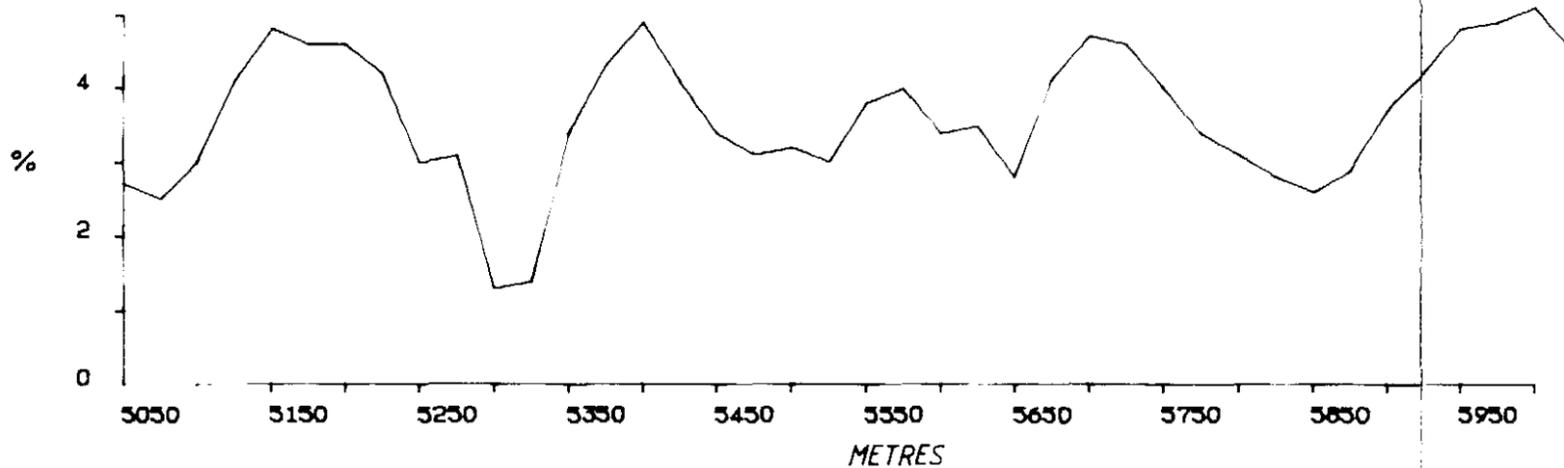
LEIGH RIVER E.L. 12/80  
RIVER ANOMALY  
GENIE PROFILES

REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13053
DATE	23 - 11 - 1984	PLAN No.	TASh 2283

5 cm

85-2461

LEIGH RIVER: TRIB ANOMALY EM



5 cm

85-2461

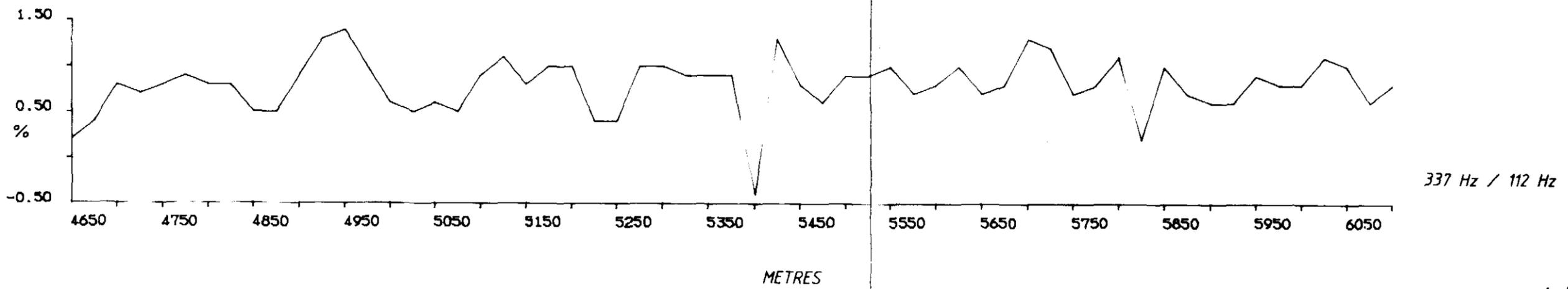
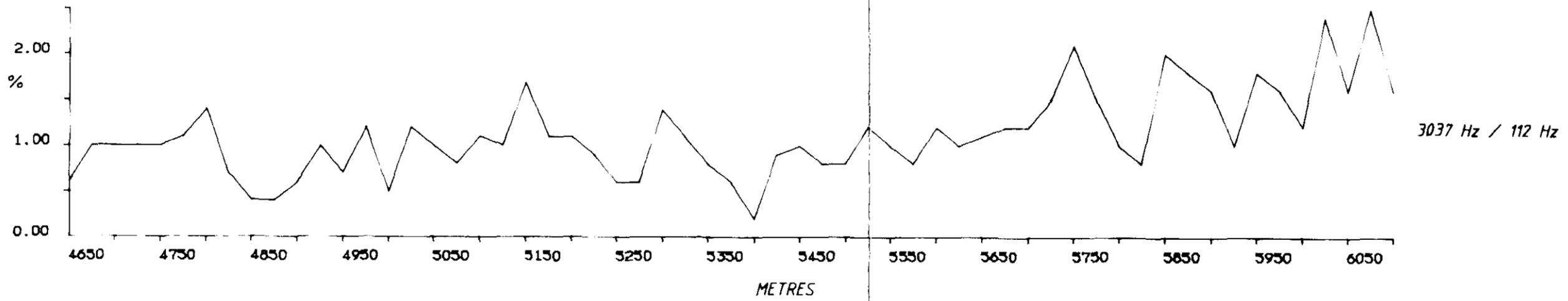
111036

CRA EXPLORATION PTY. LIMITED

LEIGH RIVER E.L. 12/80  
TRIB ANOMALY  
GENIE PROFILES

REF.	SK55 - 3	DRAWN	T.v.S.
SCALE	1 : 5000	REPORT No.	13053
AUTHOR	T.v.S.	PLAN No.	TASH 2284
DATE	23 - 11 - 1984		

# LEIGH RIVER: LEIGH SOUTH ANOMALY EM

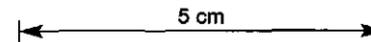


111037

CRA EXPLORATION PTY. LIMITED

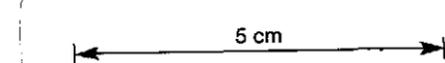
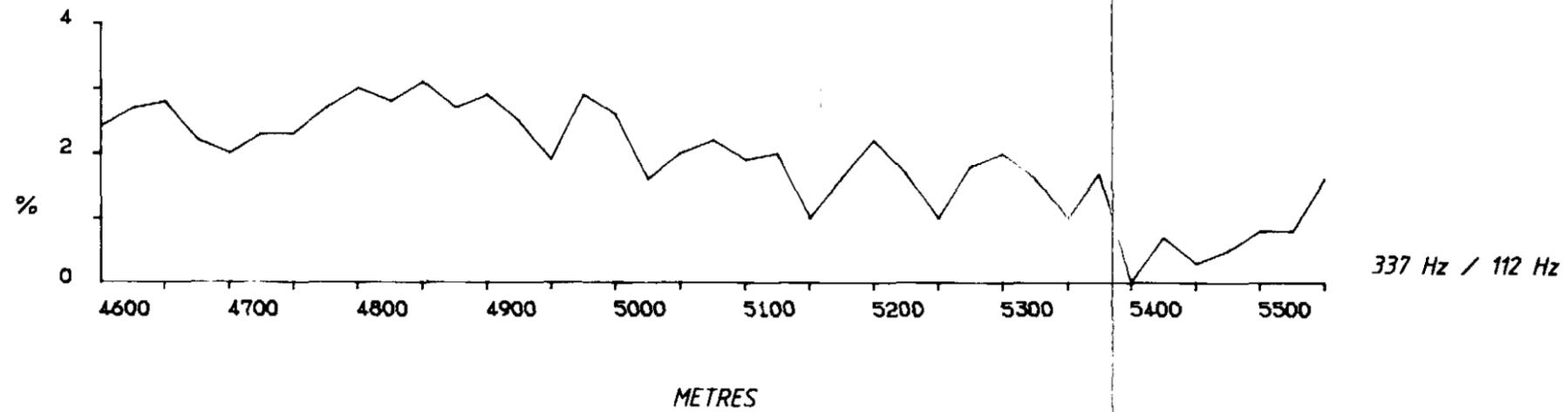
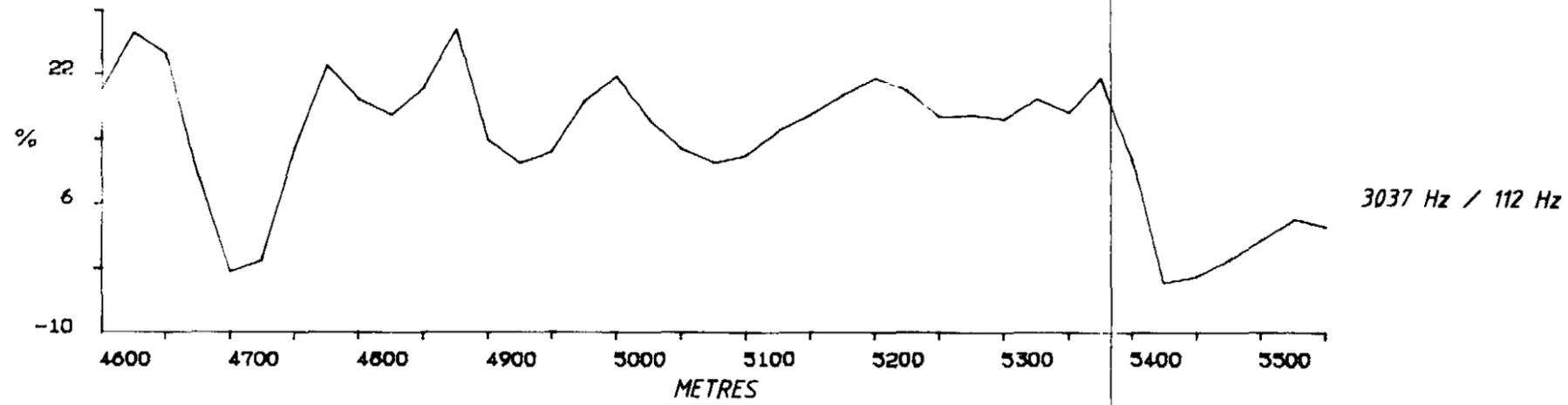
LEIGH RIVER E.L. 12/80  
LEIGH SOUTH ANOMALY  
GENIE PROFILES

REF.	SK55 - 3	DRAWN	T.v.S.
SCALE	1 : 5000	REPORT No.	13053
AUTHOR	T.v.S.	PLAN No.	TASH 2285
DATE	23 - 11 - 1984		



85-2461

LEIGH RIVER: BRIDGE ANOMALY EM



85-2461

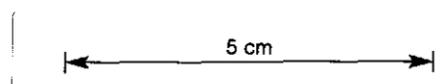
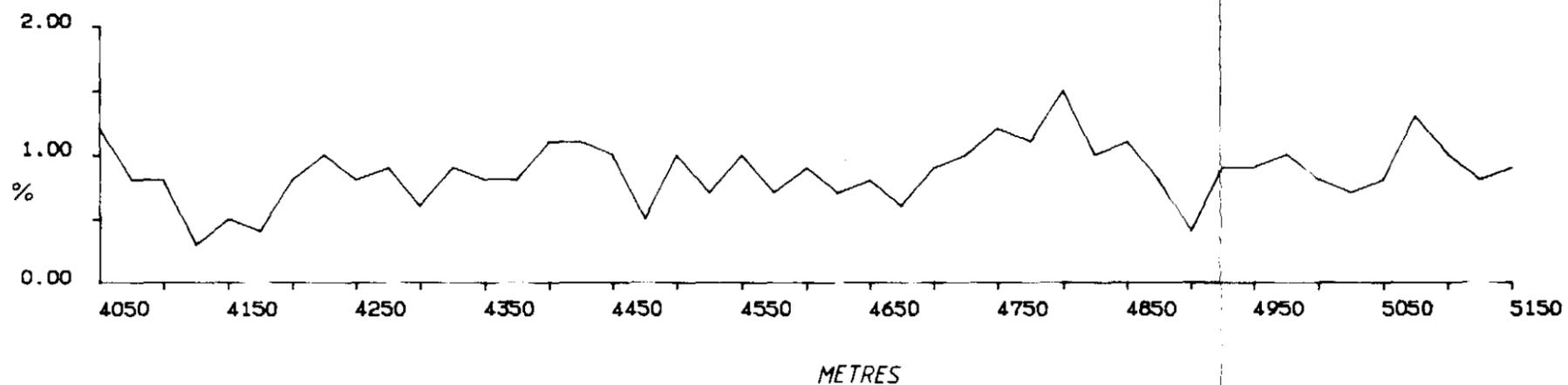
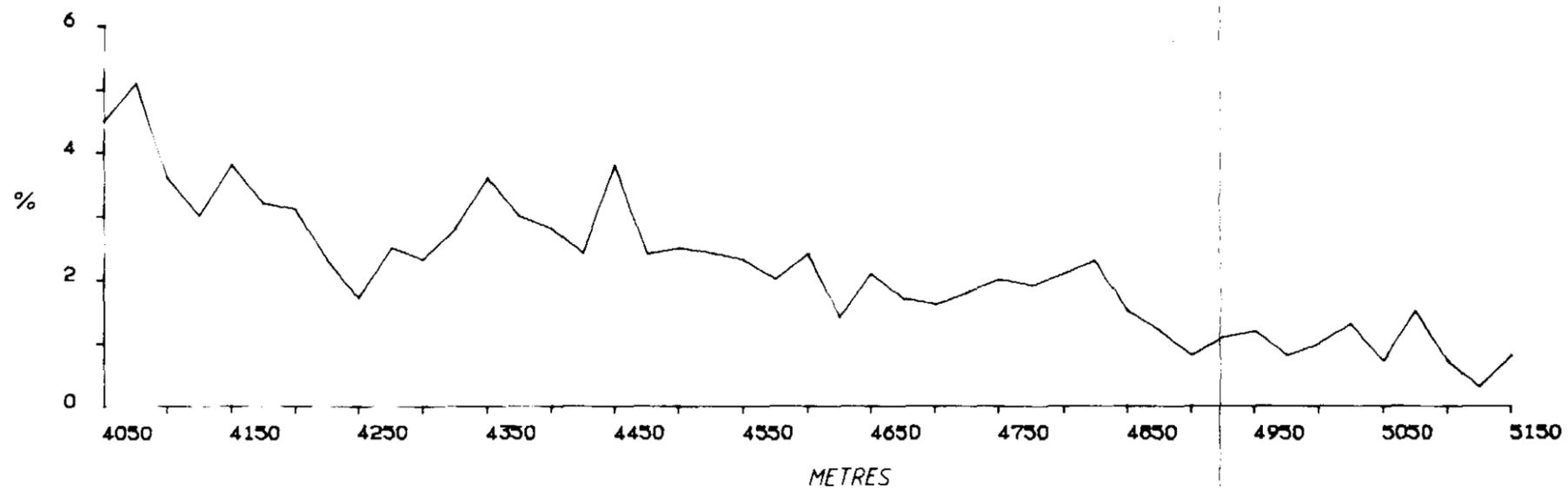
111038

CRA EXPLORATION PTY. LIMITED

LEIGH RIVER E.L. 12/80  
BRIDGE ANOMALY  
GENIE PROFILES

REF.	SK55 - 3	DRAWN	T.v.S.
SCALE	1 : 5000	REPORT No.	13053
AUTHOR	T.v.S.	PLAN No.	TASh 2286
DATE	23 - 11 - 1984		

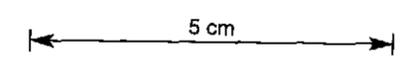
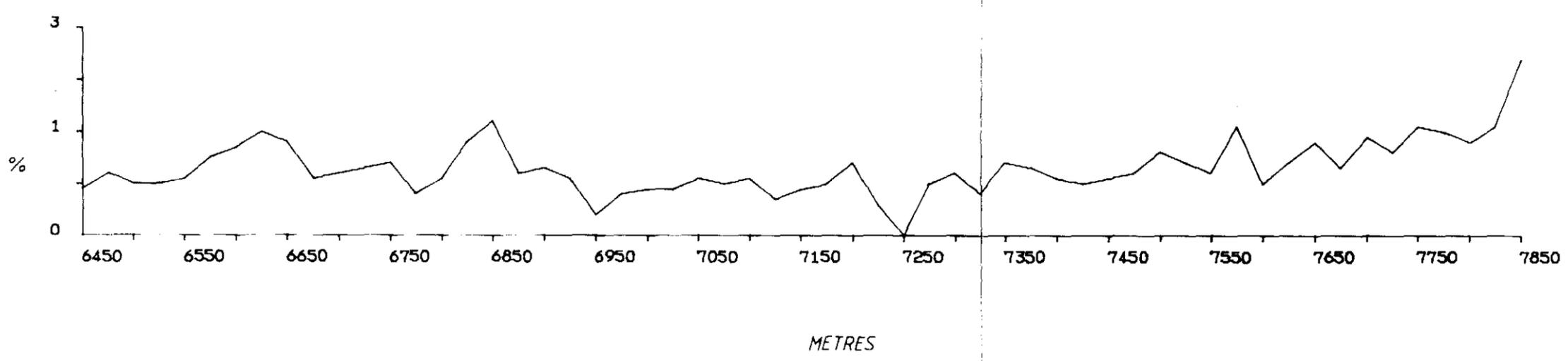
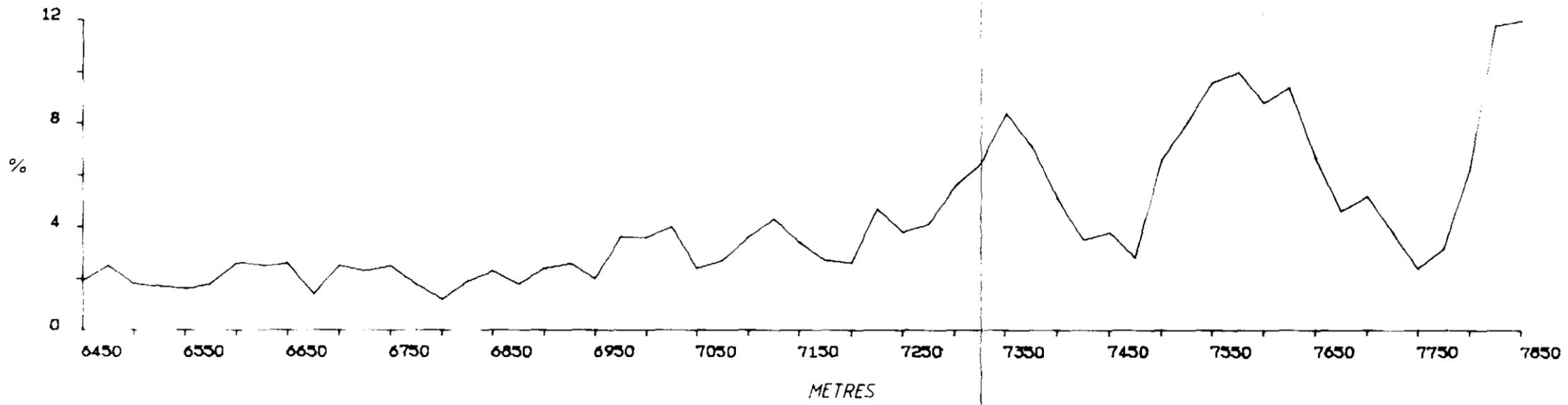
LEIGH RIVER: LEIGH ANOMALY EM



85-2461

111039			
CRA EXPLORATION PTY. LIMITED			
LEIGH RIVER E.L. 12/80 LEIGH ANOMALY GENIE PROFILES			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13053
DATE	23 - 11 - 1984	PLAN No.	TASh 2287

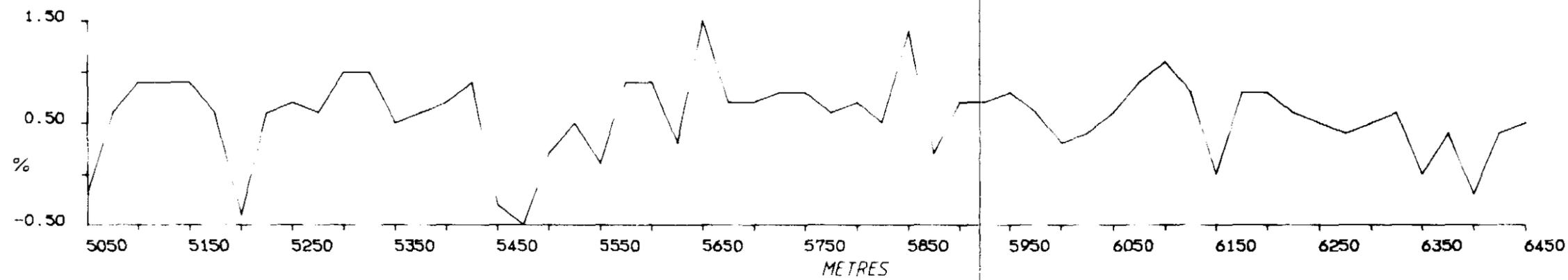
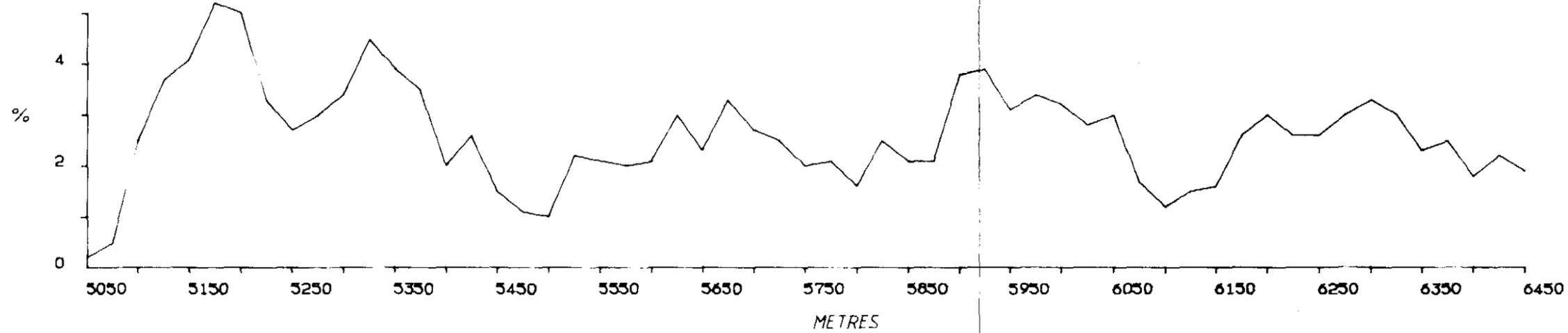
# LEIGH RIVER: SOURCE ANOMALY EM



85-2461

111040			
CRA EXPLORATION PTY. LIMITED			
LEIGH RIVER E.L. 12/80			
SOURCE ANOMALY			
GENIE PROFILES			
6450mE - 7850mE			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13053
DATE	23 - 11 - 1984	PLAN No.	TASH 2288

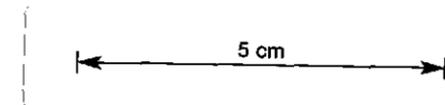
# LEIGH RIVER: SOURCE ANOMALY EM



111041

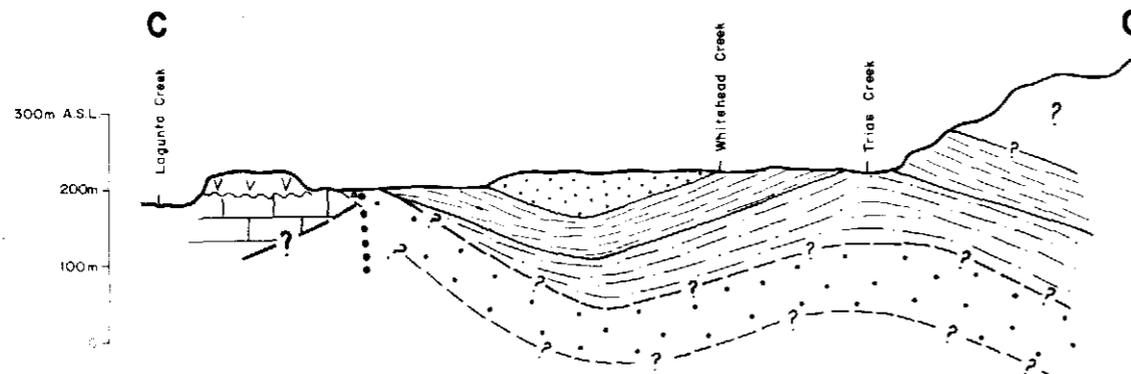
CRA EXPLORATION PTY. LIMITED

LEIGH RIVER E.L. 12/80  
SOURCE ANOMALY  
GENIE PROFILES  
5050mE - 6450mE



85-2461

REF.	SK55 - 3	
SCALE	1 : 5000	DRAWN T.v.S.
AUTHOR	T.v.S.	REPORT No. 13053
DATE	23 - 11 - 1984	PLAN No. TASH 2289

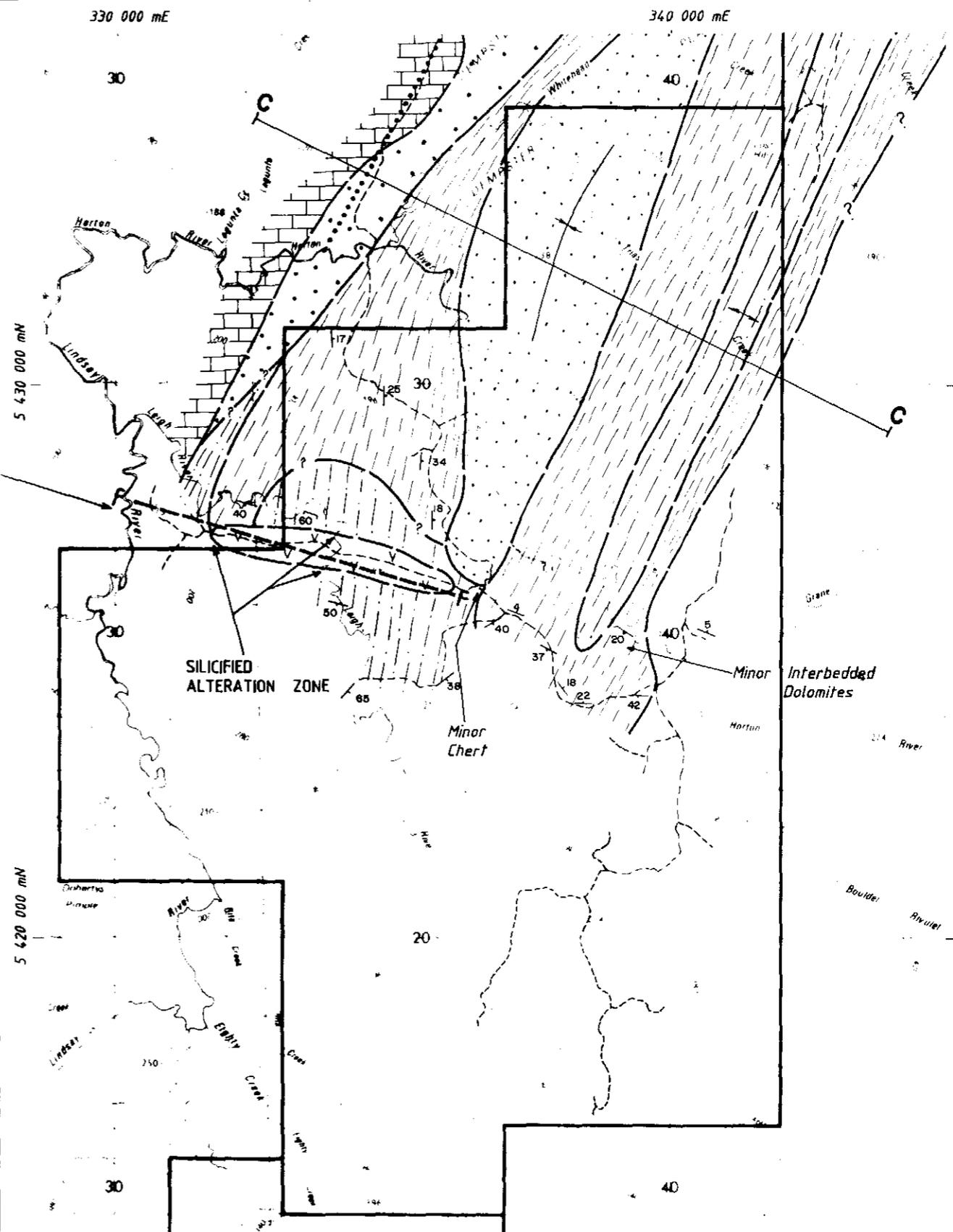


**S.E. DOMAIN**

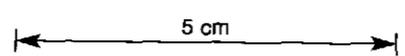
-  CAMBRIAN VOLCANICS & Associated Tuffaceous Sediments.
-  DOLOMITE/CHERT
-  Quartzite - dirty.
-  Black Pyritic Shales. Euhedral pyrite along bedding. Development of Concretionary nodules ± pyrite.
-  Green chloritic banded siltstone.
-  Quartzite.

**SYMBOLS**

-  Fault.
-  Fault Inferred.
-  Major photo lineament.
-  Anticlinal Axis.
-  Synclinal Axis.
-  Dip & strike of bedding.
-  Cleavage trace.

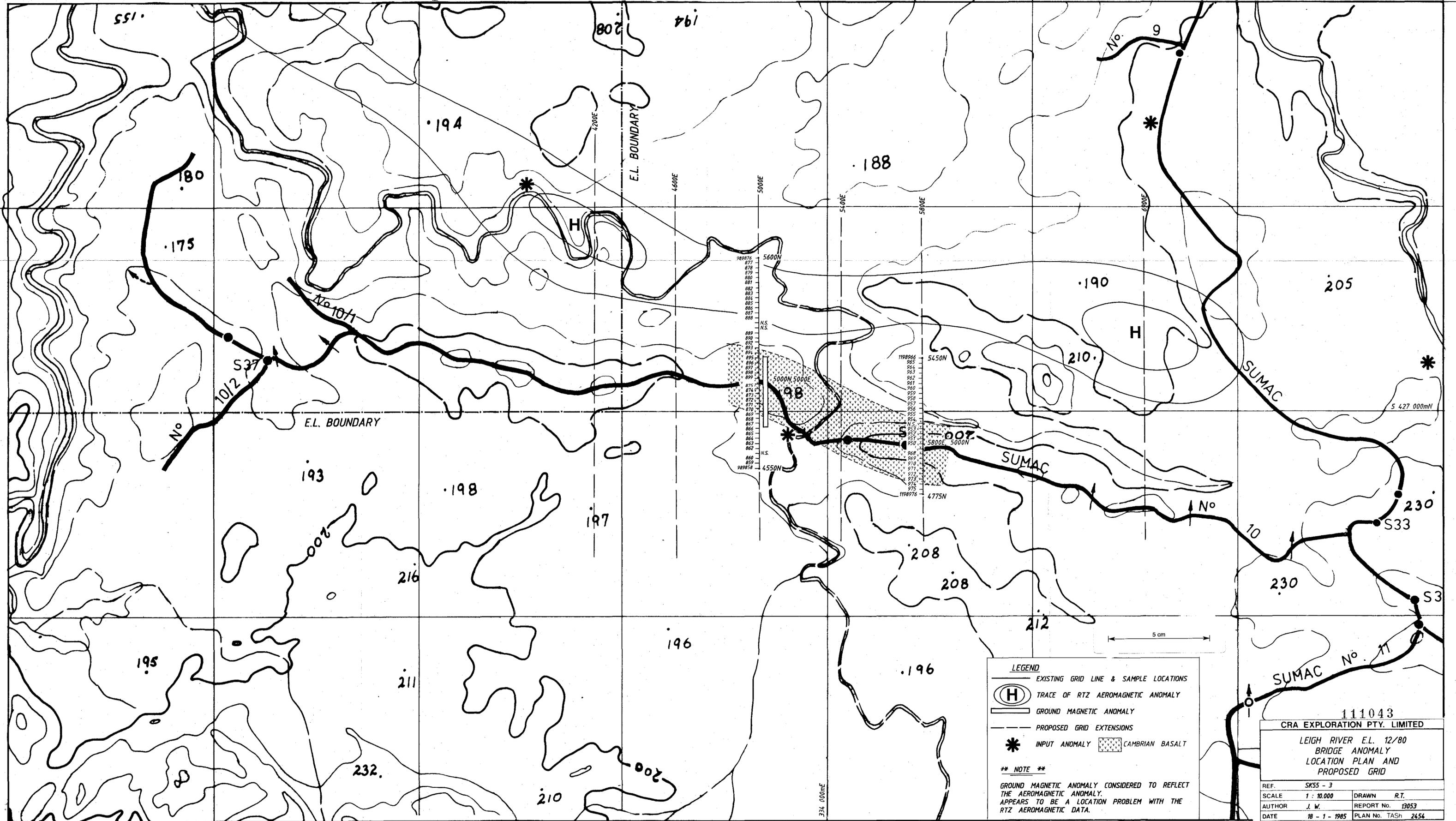


111042



85-2461

<b>CRA EXPLORATION PTY. LIMITED</b>	
<b>LEIGH RIVER E.L. 12/80</b>	
<b>GEOLOGY PLAN</b>	
Ref	SK55 - 3
Scale	1 : 100 000
Author:	J. W.
Date:	12/82 14 - 1 - '85
Drawn:	R. T.
Report No.	13053
Plan No.	TASh 985



**LEGEND**

- EXISTING GRID LINE & SAMPLE LOCATIONS
- (H) TRACE OF RTZ AEROMAGNETIC ANOMALY
- GROUND MAGNETIC ANOMALY
- - - PROPOSED GRID EXTENSIONS
- \* INPUT ANOMALY
- ▨ CAMBRIAN BASALT

**\*\* NOTE \*\***

GROUND MAGNETIC ANOMALY CONSIDERED TO REFLECT THE AEROMAGNETIC ANOMALY. APPEARS TO BE A LOCATION PROBLEM WITH THE RTZ AEROMAGNETIC DATA.

**111043**

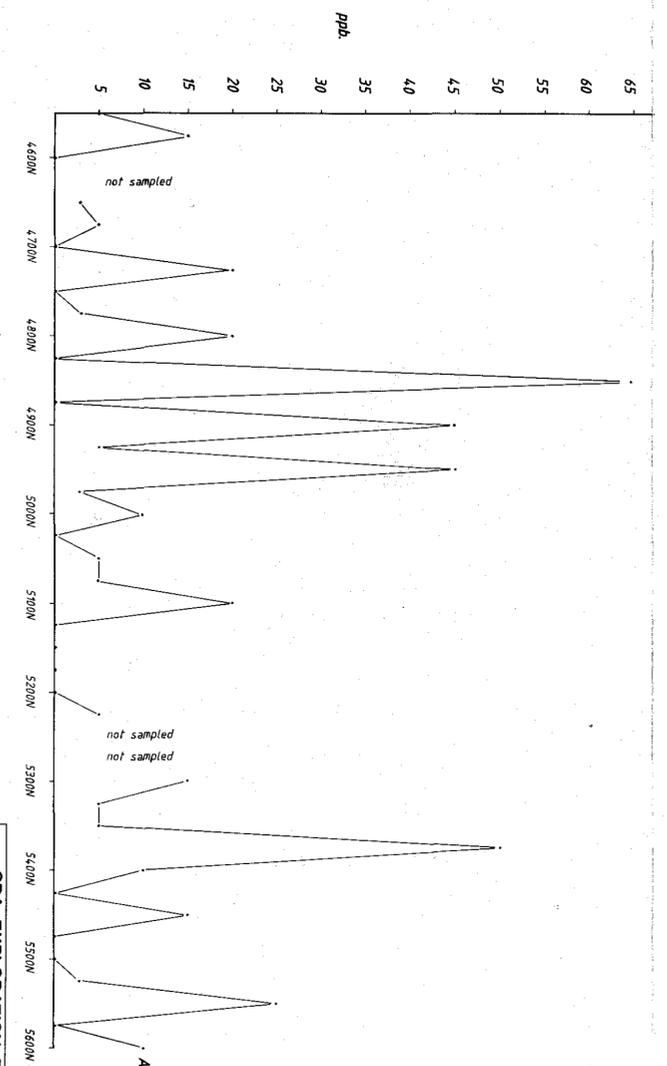
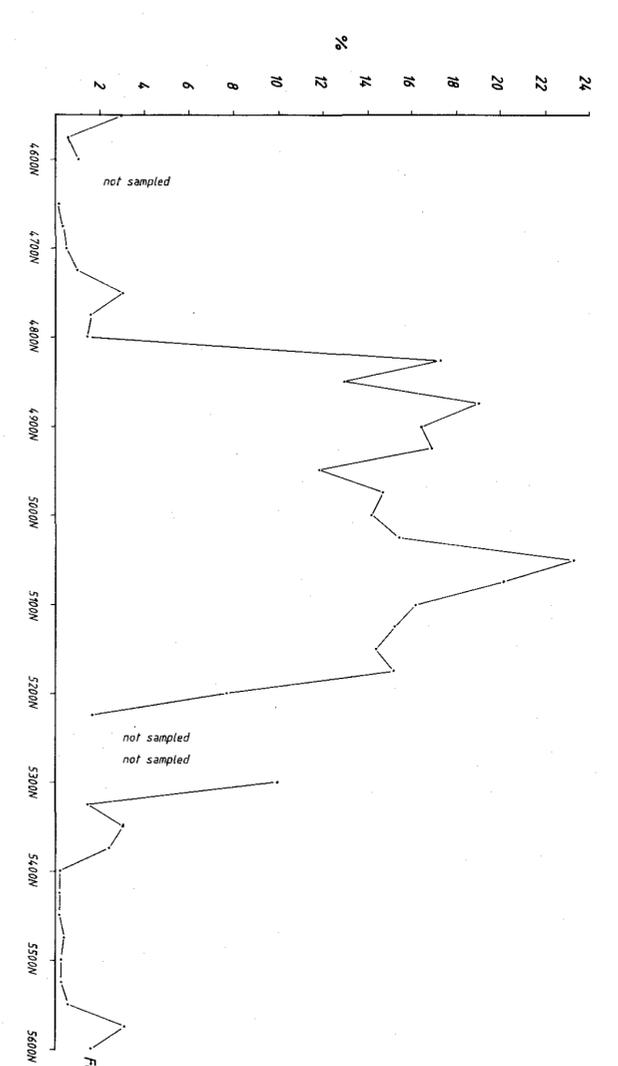
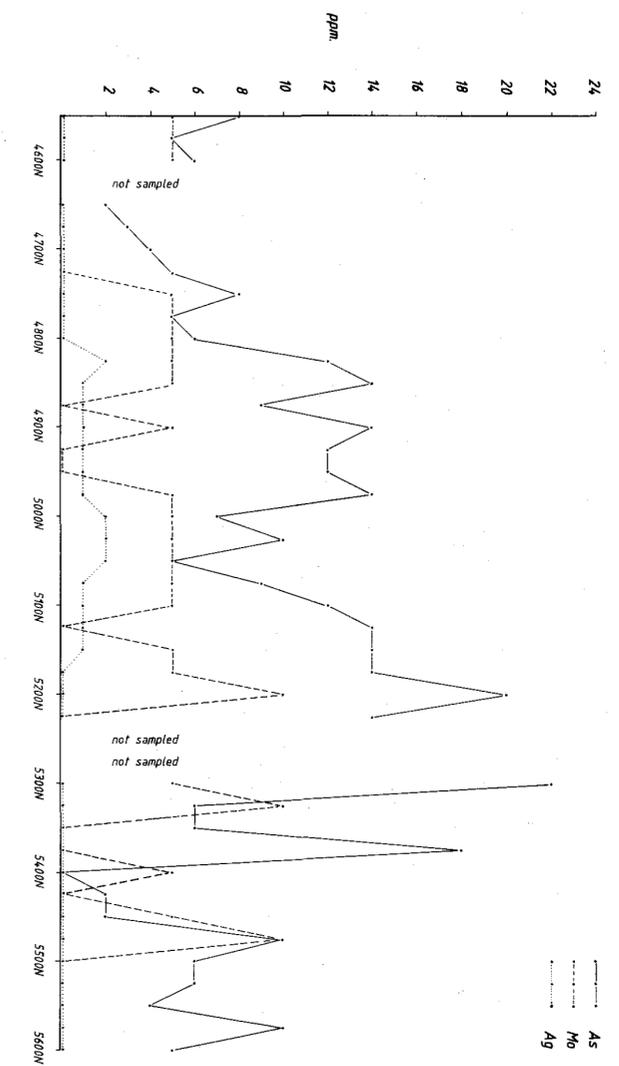
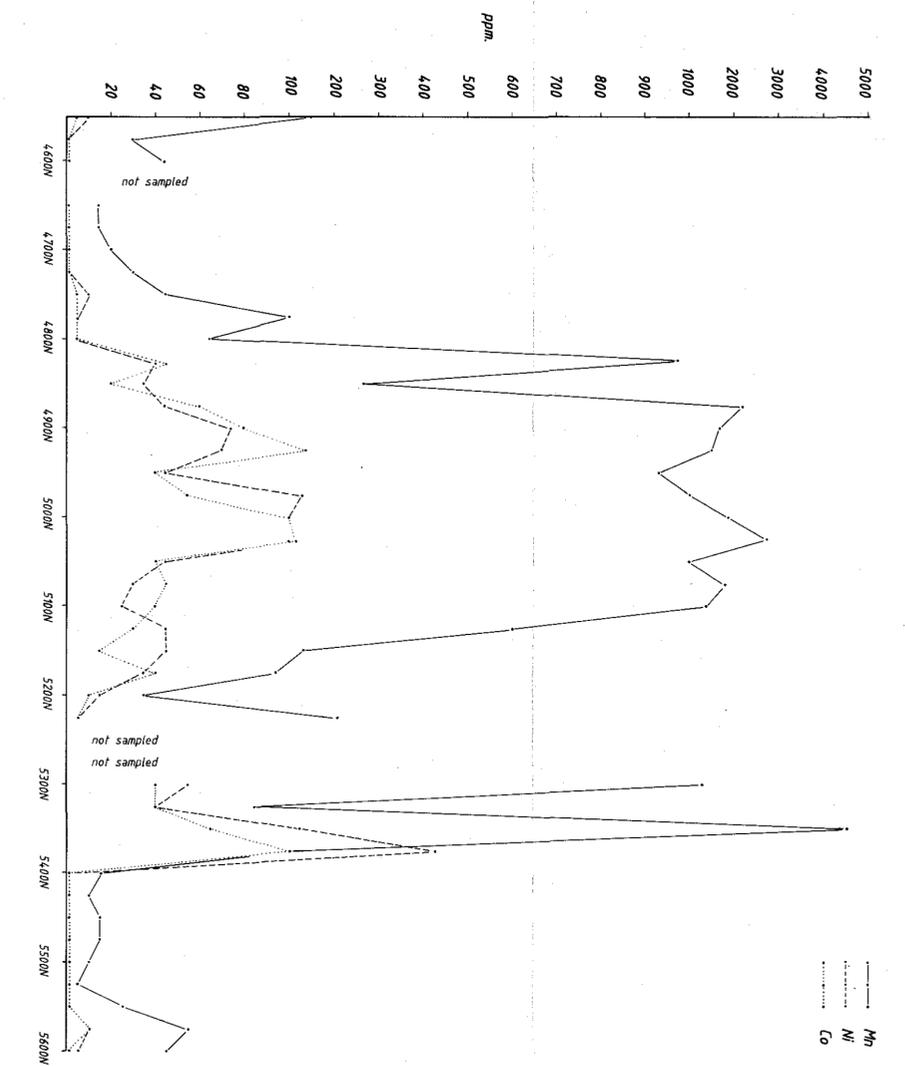
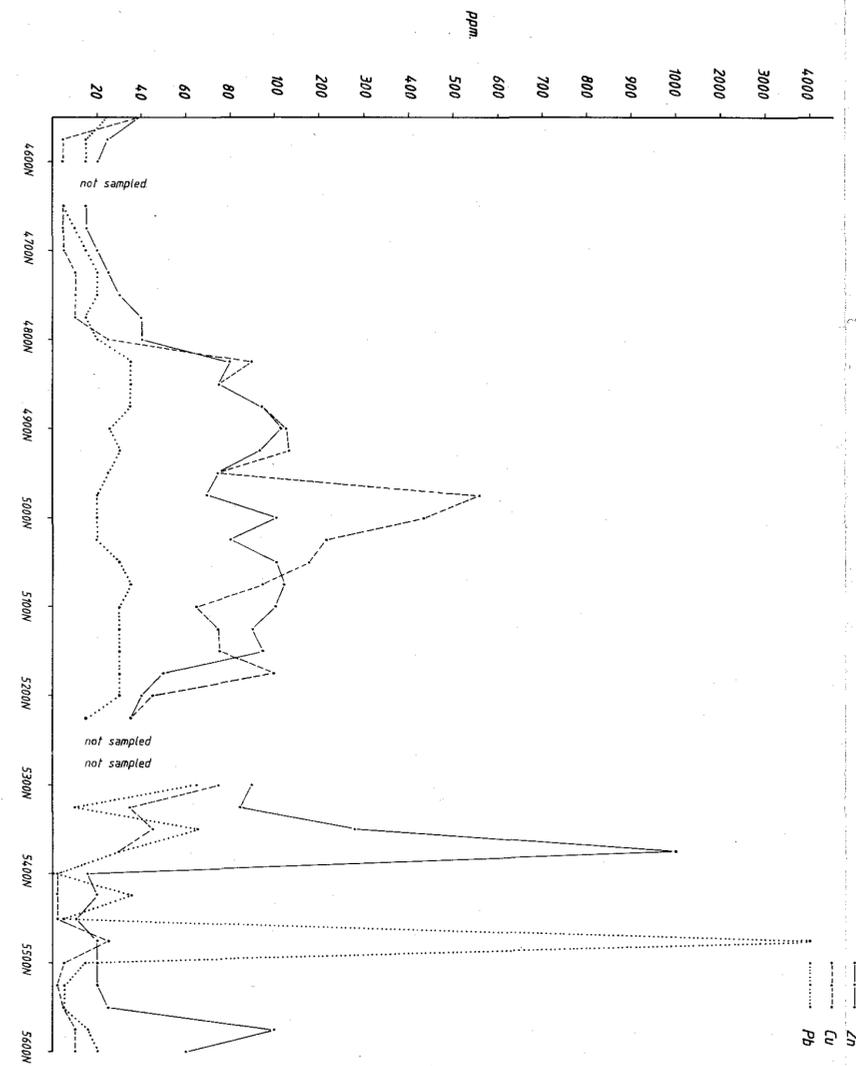
CRA EXPLORATION PTY. LIMITED

LEIGH RIVER E.L. 12/80  
BRIDGE ANOMALY  
LOCATION PLAN AND  
PROPOSED GRID

REF.	SK55 - 3
SCALE	1 : 10,000
AUTHOR	J. W.
DATE	18 - 1 - 1985
DRAWN	R.T.
REPORT No.	13053
PLAN No.	TASH 2454

85-2461

SOIL TYPE	ROCK TYPE
989 858 4550N orange-yellow clay	water worn pebbles chert
859 4757N grey clay	
860 4600N grey silty clay	
4625N	no sample taken due to water in hole
862 4650N dark grey silty clay	
863 4675N dark grey-brown clay	
864 4700N mid grey clay	
865 4725N dark grey sandy clay	
866 4750N green grey silt	
867 4775N dark grey silt	
868 4800N light grey silt	water worn pebbles of silicified siltstone
869 4825N red brown clayey silt	
870 4850N orange brown clay	
871 4875N red brown silty clay	Iron rich weathered siltstone
872 4900N red brown clay	
873 4925N brick red-yellow clay	
874 4950N red brown clay	
875 4975N red brown silty clay	
899 5000N-5000E orange clay	Basalt 5000mE - 5000mN
898 5025N red brown silty clay	
897 5050N red brown & khaki clay	Basalt
896 5075N red brown clay	Basalt
895 5100N red brown clay	Basalt
894 5125N red brown clay	
893 5150N orange brown clay	
892 5175N yellow orange & white clay	
890 5200N yellow orange clay	black indurated siltstone
889 5225N light grey sandy clay	
5250N	swamp no sample could be taken
5275N	swamp no sample could be taken
888 5300N light grey clay	Siltstone
887 5325N light grey sand	Sandstone
886 5350N light grey sandy clay	
885 5375N dark brown clay	
884 5400N light grey silt	Chert-dark grey with white veins of quartz
883 5425N light grey silt	Chert
882 5450N light grey silt	Quartzite
881 5475N light brown silt	Quartzite
880 5500N very light brown silt	Siltstone
879 5525N white clay	Claystone
878 5550N white clay	Claystone
877 5575N yellow orange silt	Siltstone
876 5600N light brown clay	Siltstone



85-24461 357

111044

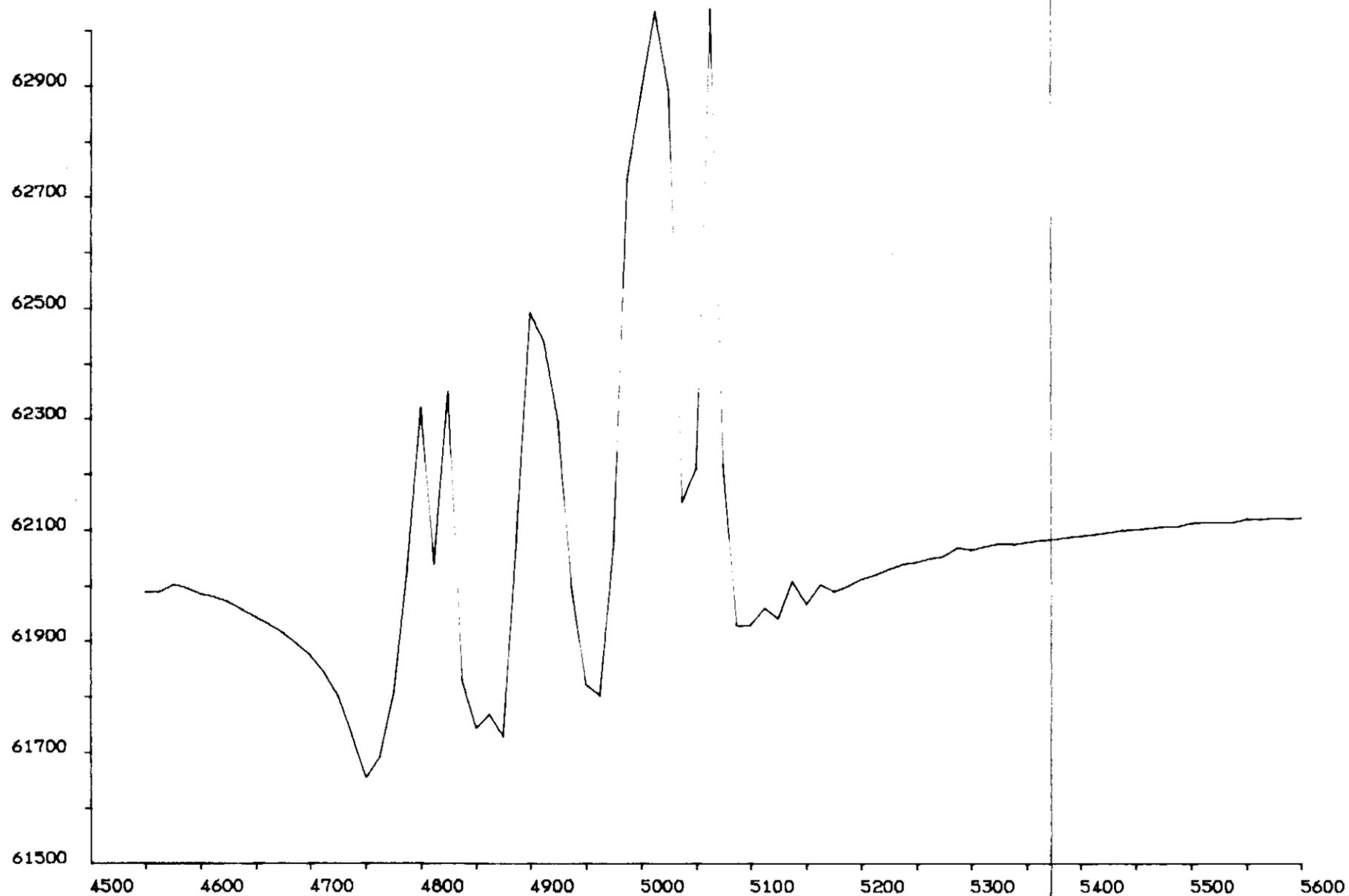
5 cm

CRA EXPLORATION PTY. LIMITED

LEIGH RIVER EL. 12780  
BRIDGE ANOMALY  
GEOCHEMICAL PROFILES

REF.	SK55 - 3	DRAWN	R.T.
SCALE	1 : 5000	REPORT NO.	19653
AUTHOR	J.W.	PLAN NO.	TASH 2655
DATE	15 - 1 - 1985		

LEIGH RIVER: BRIDGE ANOMALY GROUND MAG



111045

5 cm

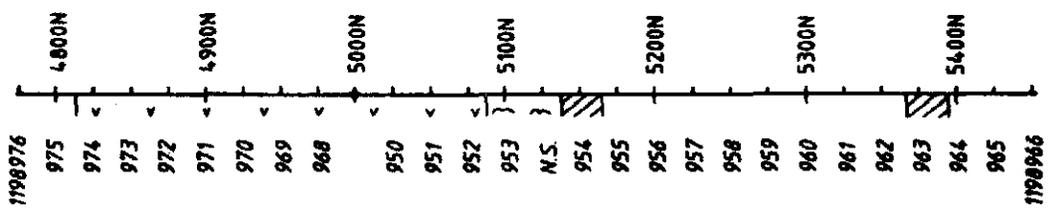
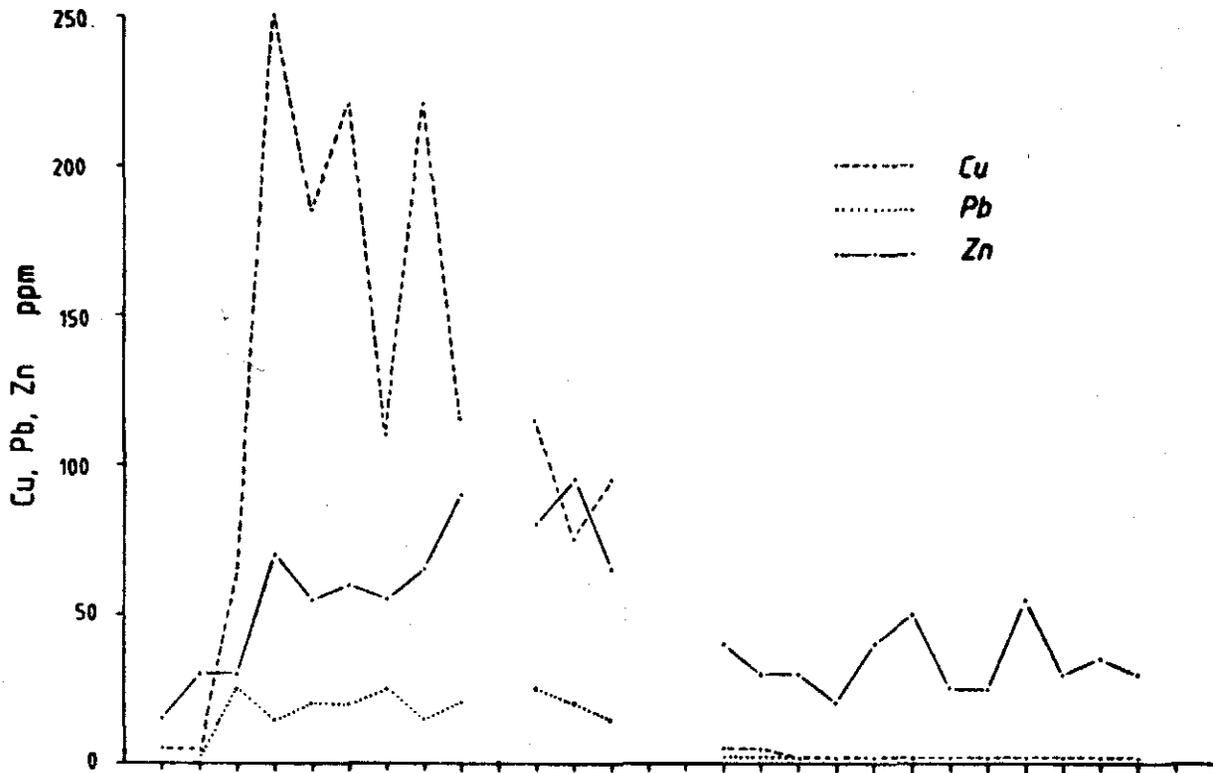
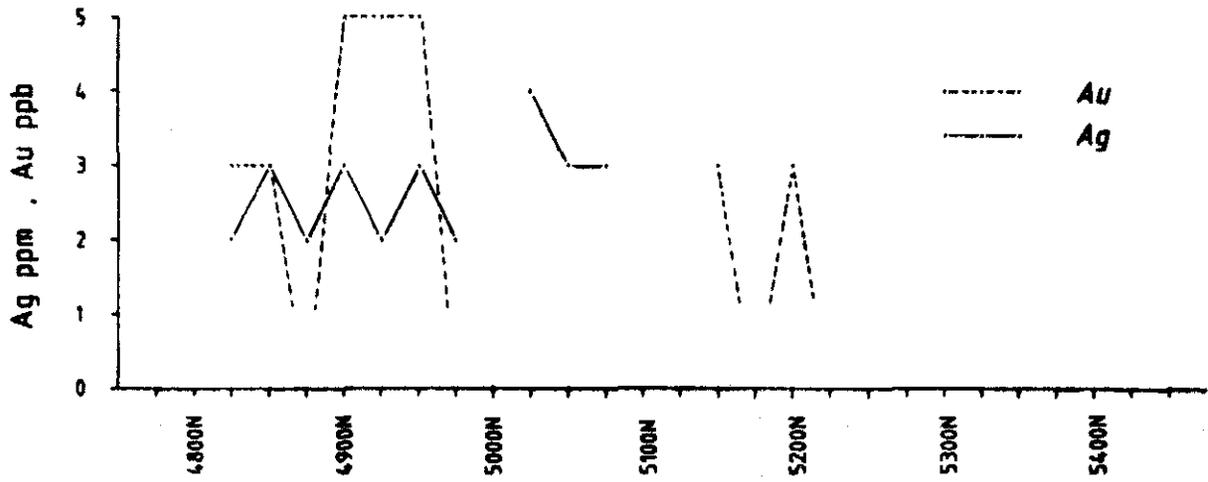
CRA EXPLORATION PTY. LIMITED

LEIGH RIVER E.L. 12/80  
BRIDGE ANOMALY  
GROUND MAGNETICS

REF.	SK55 - 3	DRAWN	T.V.S.
SCALE	1 : 5000	REPORT No.	13053
AUTHOR	T.V.S.	PLAN No.	TASH 2431
DATE	11 - 1 - 1985		

85-2461

032



5 cm

- CHERT
- V V BASALT
- SHALES
- ALLUVIUM

111046

<b>CRA EXPLORATION PTY. LIMITED</b>	
LEIGH RIVER E.L. 12/80 BRIDGE ANOMALY GEOCHEMICAL PROFILE LINE 5800 E	
REF. SK55 - 3	( 7915 )
SCALE 1 : 5000	DRAWN R.T.
AUTHOR I.M.C.	REPORT No.
DATE 5 - 7 - 1985 .	PLAN No TASH 2691

85-2461