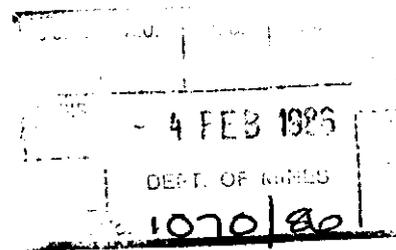


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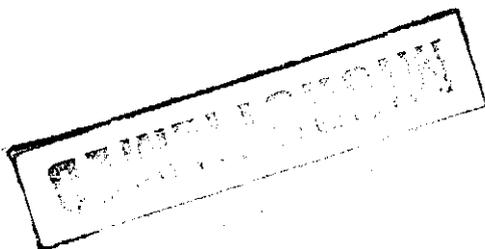
CRA EXPLORATION PTY LTD



EL 7/73 SHEFFIELD AREA, NORTHERN TASMANIA

86-2531

REPORT ON EXPLORATION FOR 12 MONTHS TO FEBRUARY 1986



Author: T. von Strokirch

Date: 23 January 1986

Submitted to: T W Dickson

Accepted by:

Copies: CRAE Hobart  
CRAE Canberra  
Department of Mines,  
Tasmania

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REPORT NO: 13732

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1. SUMMARY

This report covers work on the NE extensions of the Mt. Read Volcanic belt in the Sheffield area, EL 7/73 for the year ending 15th February 1986.

All current projects with the exception of the Beulah Baryte prospect, arose from the regional stream sediment work on the EL by Arsarco. In the past year a broad regional program has been conducted across the EL to recheck some of the Arsarco work and to test for the presence of fine gold as an indicator of base metal mineralisation.

Following drilling of the Beulah Baryte prospect the grid was extended to the east to join the Garden of Eden grid and also to the west. Soil samples were collected and all the gridded area was tested by UTEM. A number of geochemical and geophysical anomalies of interest were recognised. Down hole EM tests were performed on DD85 BB4 and DD85 BB5. No off hole conductors were detected.

A gossan was found at the Stonebridge Baryte prospect. Further geological, geochemical and geophysical work was unable to detect a below ground continuation of it.

A hole was drilled on the the site of a geophysical and geochemical anomaly at Gowrie Park. No significant amounts of base metals were recorded. No explanation of the UTEM conductor is readily apparent.

The grid over the Lake Barrington prospect was extended to the north and covered by soil geochemistry and UTEM. No anomalies of interest were recorded.

A portion of the Gog Range prospect was tested with the Scintrex

SE-88 GENIE system. No conductive anomalies were found over the major soil anomalies.

The geophysics over the Staverton grid was reevaluated in the light of earlier drilling. It is possible that the drilling did not intersect the source of the anomaly however it does not appear that the source could be large enough to be of economic interest.

A programme of drilling is proposed for the anomalies in the Beulah area.

## 2. INTRODUCTION

This report describes work carried out on EL 7/73 for the year ending 15th February 1985. EL 7/73 was held in joint venture with Arsarco until 1983 when CRAE assumed sole title to the area.

This report continues the record of the EL last reported by Temby (1985)

## 3. CONCLUSION

No significant base metal intersections were made during assessment of a number of prospects during the year.

The Beulah Baryte prospects still seem very prospective for massive sulphide bodies and it is felt that the EM and geochemical anomalies will warrant another two drill holes in the early in the new year. Additional work on the Stonebridge Baryte prospect is likely to lead to a further drill target.

#### 4. RECOMMENDATIONS

It is recommended that:-

1. The Simonds anomaly be mapped and tested by drilling on lines 2000W and 2100W where there is best coincidence between the geochemical and EM responses and where the EM responses are best defined, and that the Garden of Eden anomaly be further investigated and perhaps tested by drilling.
2. The horizon containing the sulphides intersected in PD84 CC9 be further tested by drilling in order to locate any along strike concentration of economic sulphides.
3. That the Bellana picnic ground geochemical anomaly be covered by a grid and thoroughly tested for its lead potential.
4. That the Stonebridge Baryte prospect and the surrounding be mapped and tested by and time domain EM technique such as UTEM or EM 37.

#### 5. GEOLOGY

The EL covers a portion of the north extensions of the Mt. Read Volcanic belt. Details of the geology are covered in Clementson and Flis (1983), Jennings(1979) and Jennnings(1963).

Exploration potential for volcanogenic base metal deposits in the area is considered to be very good.

## 6. BEULAH BARYTE PROSPECT

### 6.1 Gridding

Extensions to gridding over the Beulah Baryte prospect have been made to the east and the west. Gridding to the east of the Beulah Baryte grid was referred to as the Garden of Eden grid. To the immediate west of the Beulah grid is the Beulah extended grid. At an angle to this and still further to the west lies the Simonds grid.

### 6.2 Soil Geochemistry

C horizon soil geochemistry was performed over all the new grids with a sample interval of 25 metres. A zone which is geochemically active can be seen to trend east west across all the grids though only cutting the north east corner of the Simonds grid. The Barite occurrence appears to be associated with the southern boundary of this zone.

Two main anomalies stand out on the new work. One is a zone of up to 475 ppm lead that lies on the Simonds and Beulah extended grids. The other is a poorly defined zone of possibly separate anomalies at the south western corner of the Garden of Eden grid. Both these anomalies lie close to the southern edge of the aforementioned zone and are thus presumably roughly along strike from the barite. The zinc values mirror the lead response on the Simonds anomaly though giving somewhat better definition. On the Garden of Eden grid the anomaly is ill defined on the zinc contour map. The copper response is generally depressed.

### 6.3 Surface Geophysics

UTEM and ground magnetics were performed routinely on all the grids with readings taken at twenty five metre spacings. Two

of the UTEM anomalies were tested using the Scintrex SE-88 GENIE system in order to confirm them.

The magnetics proved inconclusive in that it did not throw any light on the prospectivity of the UTEM anomalies. It was useful in throwing up some magnetic trends which could be correlated with geological trends but no lengthy inexplicable anomalies were found.

Numerous shallow UTEM anomalies were detected often along contacts. The contact between the volcanics and the sediments to the south of all the grids showed up on all the loops as a distinct feature which is related to the conductor on which PD83 BB1 was targeted.

On the Simonds grid, on lines 2000W to 2400W, a conductor appears to be associated with this contact. It was successfully located using the Scintrex GENIE system which is less responsive to contacts between rocks with contrasting conductivities. It is located about one hundred metres from the major geochemical anomaly on the Simonds grid. This feature is considered worthy of drill testing.

A second anomaly of interest occurs on the Garden of Eden grid on lines 5200E to 5600E. This anomaly has no associated geochemical anomaly and was not detected on a GENIE traverse but is unexplained and may warrant drill testing. Both anomalies are covered in greater detail in von Strokirch 1985.

#### 6.4 Downhole Geophysics

Holes DD85 BB4 and DD85 BB5 were logged using the EM37 downhole logging system belonging to Geoterrax. DD85 BB4 which had appeared the most interesting geologically and geochemically was unfortunately caved half way down and was

only logged using one loop. No conductor was detected. The other hole was logged using two loops to its full depth but no off hole conductors were detected.

### 6.5 Discussion

In both cases the drilling did not explain the UTEM anomalies nor were they confirmed by the down hole EM. In both cases the anomalies were of very low order and of low time constant and it may be that they were due to minor geological variations that were not readily detectable as being of different nature in the core. As the anomalies were both of low time constant they might not have given a response on the later time EM 37 system.

The UTEM anomaly on the Simonds grid is of interest as it lies in a favourable geological position along strike from the Beulah Baryte and will be drilled at earliest opportunity. Further to the east and west along this trend is also considered prospective and gridding should be continued.

## 7. STONEBRIDGE BARYTE PROSPECT

### 7.1 Geology

Three reconnaissance lines to the south of the previously tested grid were pegged and sampled to test an open soil geochemical anomaly. Near a soil geochemical anomaly a gossan was located striking at an angle to the local strike. This gossan has been estimated at over 150 metres long and up to 4 metres wide. It contains .5 to 1 percent Pb, 0.13 percent Zn, 0.15 percent Cu, up to 18 ppm Ag and .2 ppm Au. Three hundred metres further north is a 70 metre long zone of chlorite/sulphide veined volcanoclastic which has been

interpreted to be a footwall stockwork zone. Traces of chalcopyrite are present in the veins.

#### 7.2 Soil Geochemistry

The reconnaissance soil lines gave anomalies of up to a peak of 4000 ppm lead near the gossan. Broad zones of elevated lead are present, spatially separated from broad elongate zones of high copper values around and along strike from the interpreted stock work feeder zone to the mineralisation. An additional traverse was put in over the gossan and the interpreted stockwork zone and gave an anomaly 50 metres wide of similarly elevated levels with a 6100 ppm lead maximum value.

#### 7.3 Surface Geophysics

The gossan was tested using VLF EM and magnetics. While the surface outcrop had a susceptibility of  $300 \times 10^{-6}$  SI units it was not distinguishable from the surrounding rocks on a 25 by 5 metre grid.

The VLF EM proved to be strongly affected by electric fences and farm buildings so that very noisy readings resulted. This was exacerbated by the very low signal strength from the Yosami station in Japan. Two lines gave poorly defined conductive responses but these are not indicative of sulphide conductors.

#### 7.4 Discussion

The gossan does not itself appear from the cursory investigation with geophysics to have any depth extent but is a promising sign that there may be something else in the area. At this stage it is necessary to complete mapping the area to give us the best possible handle on the geology prior

to bringing in any further geophysical techniques such as a deep searching EM system.

## 8. GOWRIE PARK PROSPECT

### 8.1 Drilling

Drilling of DD 85 GP 5 was abandoned at 96m due to bad drilling conditions. The hole was drilled into an altered sandy epiclastic sequence with minor galena mineralisation notably a section from 47.2m to 49.1m with 2-3 percent galena. From 63-89m the core contains minor carbonate veins some of which are associated with up to 10 percent galena but the host rock contains little mineralisation.

### 8.2 Discussion

The hole was not successful and it is not recommended that any further work be done on this prospect in the near future except for testing the hole with a down hole EM system if one is available in the vicinity.

## 9. LAKE BARRINGTON PROSPECT

### 9.1 Soil Geochemistry

The extended portion of the grid was sampled for C horizon soil geochemical response. Samples were taken at 25 metre intervals. A copper anomaly was once again picked up but there was little of interest in the other metal tested for.

## 9.2 Surface Geophysics

A UTEM survey covered both the old and the new portions of the grid. The loop was laid over the area where the holes had previously been drilled in order to couple with any isolated low angle conductors. No anomalies of interest were detected. The survey details are given in von Strokirch 1985.

## 9.3 Down Hole Geophysics

The down hole data reported in the last annual report was reappraised and it was found that the off hole conductor most likely lay close to and above the hole. As it was not intersected by previous drilling it is not considered to represent a major body.

## 9.3 Discussion

In view of the fact that no conductors were found with the UTEM system and the down hole anomaly has been interpreted as being shallow no further work is recommended on this prospect. If the copper concentration is to be regarded as evidence of a stockwork system peripheral to a lead/zinc body then it seems that we will have to look further afield perhaps closer to the Promised Land and Staverton prospects of CRAE.

# 10. GOG RANGE PROSPECT

## 10.1 Surface Geophysics

An IP survey was proposed to test for sulphide concentrations in the area of the central Gog Range geochemical anomaly. The CRAE in house IP system was to be used. Unfortunately it

broke down after the completion of the first line (45E). A slight rise in chargeability was detected at the southern end of the line but not such as might be caused by a concentration of sulphides.

After the demise of the IP system it was proposed that the Scintrex SE-88 GENIE system which was being used by CRAE elsewhere in Tasmania with good success could be used to determine whether there was a sufficient concentration of sulphides within 100 metres of the surface to give a conductor. Lines were surveyed across the geochemical anomaly two hundred metres apart. No anomaly was recorded over the strongest geochemical response. A small anomaly was recorded on the westernmost line (35E). Details of the survey are given in von Strokirch 1985.

## 10.2 Discussion

The geochemical anomalies at Gog Range are of such an order as to be interesting but at this stage it seems unlikely that there exists a body of a size as to be of value to CRA. If the present economic situation improves it would be worth covering all the Gog Range area with an inexpensive EM system in order to detect any small concentrations of metal that might be present.

## 11. STAVERTON PROSPECT

### 11.1 Geophysics

The geophysics over the Staverton prospect was reappraised in light of drill hole data. An alternate interpretation of the UTEM data indicated that the drilling may have stopped just short of the target. Further examination of the IP and UTEM

implies that the body present is likely to be shallow and of too low conductivity to reasonably be expected to be a large sulphide body. It is thus recommended that no further work be done on this anomaly.

## 12. REGIONAL DRAINAGE PROGRAMME

### 12.1 Sampling

A regional stream sediment sampling programme was carried out over EL 7/73 during 1985. The programme was designed to search for fine (invisible) gold, both as a primary target and as a pathfinder for volcanogenic massive sulphides. Large (5kg.) -4 mesh samples were collected and assayed for Au using the cyanide leach technique with results reported in parts per trillion. A standard -80 mesh sample was also collected at each site in order to check the previous sampling by Arsarco.

Results indicated a number of anomalous areas. The best results (up to (ppm) 180 Pb, 150 Zn, 4500 Ba and 2800 ppt Au) were obtained in the Beulah area with other significant anomalies north and east of Lake Cethana. A number of low order anomalies occur throughout the EL. See Appendix for assay results.

### 12.2 Discussion

It appears that the fine gold technique was able to detect most of the prospects that we have previously tested or are in the process of testing. In this respect it has proved a success and though it has not in itself generated any new anomalies it has refocussed our attention on the Bellana

picnic ground area which has not been sufficiently well followed up.

### 13. FUTURE PROGRAMME

#### 13.1 Drilling

Three holes are to be drilled in the Beulah area, two on the Simonds grid and one on the Garden of Eden grid.

The ground to the west of PD83 CC9 on the Cethana EL (EL 10/76) is to be mapped and will probably be drill tested during 1986. This hole may fall within the bounds of either the Sheffield or the Cethana EL.

#### 13.2 Downhole Geophysics

All the holes drilled are likely to be tested with down hole EM as may DD85 GP5.

#### 13.3 Geology

The Stonebridge Baryte area is to be mapped before any further gridding or geophysical surveying is to take place.

### 14. REFERENCES

- |                            |      |   |
|----------------------------|------|---|
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| Clementson I M<br>Flis M F | 1983 | EL 7/73 Sheffield, North Tasmania Report on Exploration during 1982. CRAE Report No. 11883.       |

Flis M F	1983	Electromagnetic Surveys on the Beulah Baryte and Staverton Prospects, Sheffield EL 7/73 CRAE Report 12279
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Weber G B	1983	Exploration in the Vicinity of Mt. Roland, Sheffield EL 7/73. CRAE Report No. 12182.
Weber G B	1984	Exploration Results Beulah, Staverton, Gog Range and Ireland Prospects - Sheffield EL 7/73, Tasmania. Report for the 12 months ending 15 February 1984. CRAE Report No. 12497.

#### 15. LOCATION

Burnie

1:250 000 Sheet

SK5503

#### 16. KEYWORDS

Acid volcanics, Andesite, Volcanogenic, Barite, Cambrian, Geochemistry, Soil, Rock, Drillcore, Drill Diamond, Geophysics, Ground, EM, UTEM, GENIE, Magnetism, Down hole

17. LIST OF PLANS

<u>Plan Number</u>	<u>Title</u>	<u>Scale</u>
Tash 2665	Cambrian Volcanic Belt & Precambrian Area N.W. Tasmania with Sheffield EL Shown	1:500 000
Tash 2661.	Sheffield EL7/73 Cethana 10/76 Prospect Prosepct Location Plan	1:50 000
Tash 2632	Sheffield EL7/73 Simonds, Beulah & Garden of Eden Grids, Soil Sample Locations	1:5 000
Tash 2633	Sheffield EL7/73 Simonds, Beulah & Garden of Eden Grids, Soil Sample Results Cu	1:5 000
Tash 2634	Sheffield EL7/73 Simonds, Beulah & Garden of Eden Grids, Soil Sample Results Pb	1:5 000
Tash 2635	Sheffield EL7/73 Simonds, Beulah & Garden of Eden Grids, Soil Sample Results Zn	1:5 000
Tash 2507	Sheffield EL7/73 Simonds, Beulah & Garden of Eden Grids, Downhole Loop positions	1:5 000
Tash 2871\	Downhole EM 37 Profiles DD85 BB4 Loop 1	1:500

Tash 2872	Downhole EM 37 Profiles DD85 BB4 Loop 2	1:500
Tash 2873	Downhole EM 37 Profiles DD85 BB4 Loop 3	1:500
Tash 2874	Downhole EM 37 Profiles DD85 BB5	1:500
Tash 2467	Sheffield EL7/73 Stonebridge Soil Sample Numbers	1:5 000
Tash 2468	Sheffield EL7/73 Stonebridge Soil Sample Results Cu	1:5 000
Tash 2469	Sheffield EL7/73 Stonebridge Soil Sample Results Pb	1:5 000
Tash 2470	Sheffield EL7/73 Stonebridge Soil Sample Results Zn	1:5 000
Tash 2857	Sheffield EL7/73 Lake Barrington Soil Sample Numbers	1:5 000
Tash 2858	Sheffield EL7/73 Lake Barrington Soil Sample Results Cu	1:5 000
Tash 2859	Sheffield EL7/73 Lake Barrington Soil Sample Results Pb	1:5 000
Tash 2623	Sheffield EL7/73 Gog Range Central Grid Plan & Summary Geochemistry	1:5 000
Tash 2863	Sheffield EL7/73 Sample Numbers for Regional Stream Sediments West sheet	1:25 000

Tash 2864 ' Sheffield EL7/73 Sample Numbers for 1:25 000  
Regional Stream Sediments  
East sheet

18. LIST OF APPENDICES

- Appendix 1 Soil geochemical results; Simonds, Beulah  
Extended and Garden of Eden grids
- Appendix 2 Soil geochemical results; Lake Barrington grid
- Appendix 3 Soil geochemical results; Stonebridge Barite  
grid
- Appendix 4 Stream sediment sampling results
- Appendix 5 DD85 GP5 Logs and assays

APPENDIX 1

SOIL GEOCHEMICAL RESULTS; SIMONDS,  
BEULAH EXTENDED AND GARDEN OF EDEN  
GRIDS

021

*Diamonds  
Soils*

048022

The Australian  
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Laboratories

# amdel

3/1/6/0 - AC 4137/85  
SPT 22/85

23 April 1985

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### REPORT AC 4137/85

YOUR REFERENCE:	D.P.O. Number 31946
REPORT COMPRISING:	Cover Sheet Pages G1 - G2
DATE RECEIVED:	12 April 1985
NOTE:	Sample Number 974952 was received but not listed. Golds to come.

D. Patterson  
Chief Chemist  
Analytical Chemistry Division

cc The Manager,  
CRA Exploration Pty. Limited,  
P.O. Box 656,  
FYSHWICK A.C.T. 2609

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Analysis code A1/1,2

Report AC 4137/85

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Order No. 31946

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
975975	56	<2	44	<1	8	275	5.14%
975976	88	<2	66	<1	9	425	5.62%
975977	64	<2	50	<1	11	270	4.68%
975978	60	<2	35	<1	8	200	3.70%
975979	78	<2	68	<1	17	430	6.18%
975980	70	<2	47	<1	12	340	5.20%
975981	84	<2	39	<1	16	42	6.00%
975982	96	8	47	<1	13	70	6.36%
975983	96	<2	36	<1	17	34	7.28%
975984	86	<2	29	<1	11	52	6.32%
975985	100	<2	33	<1	15	34	7.56%
975986	42	<2	27	<1	9	62	4.39%
975987	62	<2	35	<1	16	56	5.98%
975988	49	<2	28	<1	15	68	3.48%
975989	45	<2	27	<1	10	170	3.21%
975990	56	<2	31	<1	16	115	5.10%
975991	92	<2	29	<1	15	58	6.38%
975992	94	<2	28	<1	9	42	6.62%
975993	62	4	35	<1	16	105	5.52%
975994	60	<2	29	<1	12	145	6.94%
975995	66	<2	29	<1	11	125	6.30%
975996	70	<2	45	<1	17	1220	6.16%
975997	105	<2	46	<1	17	74	7.50%
975998	125	3	52	<1	25	90	8.98%
975999	82	<2	68	<1	6	1080	10.5%
976000	100	<2	42	<1	9	80	6.90%
1154821	82	<2	68	<1	7	910	10.3%
1154822	96	8	66	<1	12	1060	8.72%
1154823	56	82	50	<1	8	88	4.39%
1154824	80	395	72	<1	<2	760	6.76%
1154825	56	96	54	<1	12	64	8.00%
1154826	64	50	66	<1	13	46	8.76%
1154827	52	39	44	<1	6	22	5.82%
1154828	37	<2	56	<1	9	34	2.00%
1154829	52	11	56	<1	25	40	5.78%
1154830	27	<2	70	<1	4	46	2.49%
1154831	46	<2	115	<1	4	72	3.35%
1154832	60	<2	34	<1	10	58	4.94%
1154833	70	<2	47	<1	7	60	6.20%
1154834	72	<2	31	<1	15	64	7.68%

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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Analysis code A1/1,2

Report AC 4137/85

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NATA Certificate

Order No. 31946

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1154835	84	<2	37	<1	17	110	8.84%
1154836	80	2	25	<1	7	145	7.14%
1154837	86	<2	27	<1	10	74	6.96%
1154838	100	8	32	<1	13	78	6.96%
1154839	84	<2	27	<1	10	90	6.32%
1154840	60	<2	21	<1	11	58	5.20%
1154841	76	<2	23	<1	21	62	6.14%
1154842	44	<2	31	<1	11	405	5.40%
1154843	42	<2	24	<1	9	550	5.26%
1154844	64	<2	33	<1	11	28	5.78%
1154845	48	<2	25	<1	7	22	4.01%
1154846	100	13	26	<1	3	44	7.14%
1154847	110	8	31	<1	9	92	7.56%
1154848	66	<2	34	<1	7	120	4.84%
1154849	88	13	26	<1	8	42	5.30%
1154850	80	17	32	<1	6	60	4.62%
972339	88	40	45	<1	5	700	5.24%
972340	62	2	72	<1	9	940	5.52%
972341	70	17	115	<1	8	4520	6.26%
972342	92	5	62	<1	14	110	5.60%
972343	90	5	62	<1	10	110	5.82%
972344	58	2	34	<1	15	78	5.66%
974952	134	5	53	<1	21	119	8.98%

Sample No.974952 recieved but not listed.

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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024



048025

Soils

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Mineral Development  
Laboratories

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# amdel

3/1/6/0 - AC 4117/85

SPT 19/85

23 April 1985

## NATA CERTIFICATE

### PART REPORT 1

Mr. P. Temby,  
CRA Exploration Pty. Limited,  
7 Marine Terrace,  
BURNIE TASMANIA 7320

### REPORT AC 4117/85

YOUR REFERENCE:

D.P.O. Number 31943

REPORT COMPRISING:

Cover Sheet  
Pages G1 - G6

DATE RECEIVED:

11 April 1985

D. Patterson  
Chief Chemist  
Analytical Chemistry Division

cc The Manager,  
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P.O. Box 656,  
FYSHWICK A.C.T. 2609  
cc Administration Officer,  
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025

Analysis code A1/1,2

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1197901	37	<2	52	<1	8	100	5.48%
1197902	33	6	52	<1	8	72	5.18%
1197903	48	33	92	<1	10	2600	6.82%
1197904	24	<2	76	<1	3	205	2.61%
1197905	90	<2	130	<1	11	2160	6.34%
1197906	58	<2	32	<1	11	370	5.36%
1197907	54	<2	34	<1	8	990	5.60%
1197908	27	<2	30	<1	9	240	4.87%
1197909	44	<2	26	<1	9	195	5.04%
1197910	120	10	34	<1	10	70	7.48%
1197911	78	5	26	<1	6	80	6.28%
1197912	84	<2	30	<1	11	62	6.66%
1197913	96	<2	38	<1	15	58	8.14%
1197914	64	<2	39	<1	10	96	5.12%
1197915	70	<2	39	<1	15	125	6.90%
1197916	54	<2	37	<1	8	155	6.34%
1197917	34	<2	34	<1	5	210	4.16%
1197918	50	<2	49	<1	8	580	4.82%
1197919	48	<2	52	<1	6	810	5.20%
1197920	49	<2	56	<1	11	450	3.91%
1197921	38	98	410	<1	6	1980	6.62%
1197922	14	90	500	<1	5	1980	7.48%
1197923	23	115	310	<1	3	1240	7.14%
1197924	16	140	290	<1	8	2220	8.68%
1197925	25	39	295	<1	15	1700	8.98%
1197926	21	165	305	<1	10	1880	6.92%
1197927	17	50	325	<1	11	1180	6.98%
1197928	13	475	355	<1	6	5650	7.20%
1197929	21	380	390	<1	2	5800	6.92%
1197930	54	4	50	<1	7	1960	6.62%
1197931	72	<2	88	<1	10	320	6.54%
1197932	72	3	68	<1	10	880	5.40%
1197933	72	<2	56	<1	10	1140	6.08%
1197934	78	11	28	<1	9	295	5.74%
1197935	76	<2	28	<1	10	230	6.46%
1197936	88	<2	34	<1	16	175	6.02%
1197937	54	<2	30	<1	9	56	4.58%
1197938	90	11	26	<1	5	44	5.52%
1197939	62	<2	21	<1	16	44	5.44%
1197940	46	2	72	<1	18	54	8.10%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



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026

Analysis code A1/1,2

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1197941	66	<2	20	<1	13	62	5.52%
1197942	60	2	27	<1	2	58	7.52%
1197943	88	17	28	<1	11	115	8.18%
1197944	64	2	24	<1	8	98	5.64%
1197945	74	<2	32	<1	5	54	5.50%
1197946	100	3	34	<1	5	120	7.30%
1197947	58	<2	31	<1	8	70	6.10%
1197948	86	<2	36	<1	24	70	6.54%
1197949	76	<2	94	<1	12	365	6.00%
1197950	78	<2	82	<1	13	280	6.70%
1197951	90	4	86	<1	7	340	7.00%
1197952	14	<2	28	<1	4	1020	5.10%
1197953	14	<2	27	<1	4	1060	5.10%
1197954	54	<2	42	<1	13	1320	5.28%
1197955	28	5	46	<1	7	1320	5.18%
1197956	30	205	92	<1	8	830	5.96%
1197957	34	275	125	<1	9	960	6.16%
1197958	29	225	160	<1	5	375	7.26%
1197959	74	<2	52	<1	15	510	6.88%
1197960	66	<2	43	<1	13	1980	5.42%
1197961	50	<2	35	<1	14	2140	5.96%
1197962	56	<2	31	<1	11	485	5.08%
1197963	90	7	36	<1	13	235	6.68%
1197964	110	17	34	<1	12	120	8.18%
1197965	98	6	33	<1	13	185	7.86%
1197966	70	<2	37	<1	11	155	6.06%
1197967	44	6	29	<1	9	230	6.44%
1197968	100	<2	34	<1	15	74	6.72%
1197969	70	<2	26	<1	10	44	6.44%
1197970	78	2	35	<1	10	105	6.20%
1197971	70	<2	28	<1	23	94	5.02%
1197972	33	2	37	<1	7	68	3.11%
1197973	88	3	30	<1	16	155	6.18%
1197974	72	<2	26	<1	9	50	5.40%
1197975	84	<2	26	<1	11	145	6.44%
1197976	80	<2	22	<1	15	96	3.85%
1197977	76	<2	54	<1	8	640	6.96%
1197978	60	<2	31	<1	9	360	5.66%
1197979	105	<2	115	<1	13	100	7.16%
1197980	68	<2	150	<1	12	175	6.12%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)

027

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Analysis code A1/1,2

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1197981	92	<2	195	<1	10	495	6.24%
1197982	70	<2	78	<1	2	1300	5.08%
1197983	50	<2	68	<1	8	115	6.52%
1197984	120	6	86	<1	4	1980	8.20%
1197985	90	24	64	<1	6	620	8.42%
1197986	78	<2	100	<1	9	670	11.9%
1197987	14	2	34	<1	2	76	2.83%
1197988	52	<2	37	<1	9	460	5.56%
1197989	34	<2	21	<1	5	62	2.96%
1197990	64	<2	28	<1	8	74	4.23%
1197991	70	<2	31	<1	12	18	6.78%
1197992	68	<2	22	<1	8	125	6.18%
1197993	110	6	24	<1	9	90	7.48%
1197994	110	<2	19	<1	14	82	7.00%
1197995	120	<2	17	<1	14	115	7.26%
1197996	78	3	17	<1	12	160	5.92%
1197997	86	3	33	<1	12	145	9.68%
1197998	38	<2	17	<1	8	115	4.66%
1197999	50	<2	35	<1	7	58	6.60%
1198000	82	<2	56	<1	7	475	5.52%
974851	140	11	98	<1	17	560	9.36%
974852	86	12	45	<1	16	135	7.02%
974853	96	4	54	<1	13	84	9.42%
974854	76	3	42	<1	10	205	6.08%
974855	44	<2	29	<1	8	110	4.95%
974856	82	<2	24	<1	26	48	5.62%
974857	82	4	28	<1	25	42	5.68%
974858	76	<2	32	<1	13	84	6.58%
974859	74	<2	41	<1	14	54	5.12%
974860	72	<2	45	<1	10	68	5.34%
974861	56	<2	52	<1	7	230	4.64%
974862	88	7	58	<1	10	150	6.90%
974863	58	<2	44	<1	7	68	5.54%
974864	13	<2	12	<1	2	90	2.59%
974865	48	<2	76	<1	13	750	4.90%
974866	105	<2	115	<1	7	185	4.32%
974867	54	<2	29	<1	11	225	5.08%
974868	50	4	34	<1	10	2800	5.54%
974869	74	<2	38	<1	15	455	7.80%
974870	105	2	29	<1	16	130	9.18%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



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028

Analysis code A1/1,2

Report AC 4117/85

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
974871	105	<2	31	<1	18	68	8.10%
974872	110	<2	46	<1	25	32	5.96%
974873	68	7	30	<1	16	130	6.76%
974874	100	9	31	<1	14	72	6.86%
974875	66	<2	23	<1	11	100	6.40%
974876	74	7	29	<1	7	105	7.28%
974877	94	14	46	<1	11	120	8.44%
974878	135	2	50	<1	22	485	7.44%
974879	58	10	33	<1	9	480	4.28%
974880	98	<2	32	<1	1	225	6.80%
974881	58	<2	23	<1	13	62	3.79%
974882	96	9	23	<1	7	110	4.89%
974883	86	6	30	<1	11	82	5.92%
974884	100	<2	37	<1	9	66	7.78%
974885	60	<2	26	<1	6	28	4.69%
974886	98	3	34	<1	11	68	7.28%
974887	84	6	44	<1	6	96	8.26%
974888	96	10	42	<1	9	155	6.22%
974889	86	<2	135	<1	9	560	5.98%
974890	115	4	175	<1	12	150	7.32%
974891	84	<2	94	<1	18	240	6.04%
974892	90	<2	78	<1	13	190	6.74%
974893	76	<2	72	<1	10	225	5.84%
974894	38	<2	47	<1	3	80	3.95%
974895	74	4	80	<1	8	80	7.46%
974896	54	<2	31	<1	9	44	4.29%
974897	43	2	23	<1	10	68	4.47%
974898	48	<2	27	<1	10	66	5.26%
974899	48	10	17	<1	6	42	3.88%
974900	74	8	29	<1	8	105	7.98%
974901	76	<2	29	<1	11	160	7.66%
974902	52	<2	29	<1	5	135	5.58%
974903	41	<2	24	<1	7	270	4.06%
974904	86	<2	39	<1	14	375	8.24%
974905	80	<2	41	<1	12	460	7.50%
974906	80	<2	52	<1	7	165	10.6%
974907	68	<2	48	<1	6	185	9.98%
974908	110	<2	50	<1	15	72	8.74%
974909	88	20	47	<1	10	600	7.92%
974910	56	<2	49	<1	12	96	6.00%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)

029



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Analysis code A1/1.2

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
974911	47	12	41	<1	7	1020	5.16%
974912	40	<2	35	<1	7	335	5.38%
974913	54	<2	40	<1	11	120	6.38%
974914	48	<2	47	<1	10	125	5.32%
974915	38	<2	27	<1	3	80	4.27%
974916	70	<2	66	<1	11	335	9.72%
974917	72	7	39	<1	12	385	5.24%
974918	235	31	64	<1	15	1160	10.1%
974919	52	<2	43	<1	9	390	4.48%
974920	58	<2	42	<1	7	68	3.83%
974921	72	<2	32	<1	12	86	5.14%
974922	98	3	38	<1	17	98	6.98%
974923	84	<2	32	<1	4	185	5.86%
974924	54	<2	34	<1	11	155	5.82%
974925	92	3	54	<1	15	115	9.64%
974926	115	11	43	<1	24	68	7.68%
974927	86	11	70	<1	12	88	6.62%
974928	120	5	40	<1	12	38	6.22%
974929	76	<2	46	<1	8	56	7.96%
974930	54	<2	19	<1	10	70	4.61%
974931	72	4	34	<1	15	60	7.16%
974932	56	<2	29	<1	16	92	6.36%
974933	74	5	35	<1	17	86	7.98%
974934	62	<2	31	<1	10	145	7.20%
974935	66	<2	28	<1	15	78	5.96%
974936	62	<2	28	<1	14	285	6.18%
974937	76	<2	64	<1	5	600	8.74%
974938	45	<2	54	<1	3	360	9.22%
974939	41	<2	58	<1	4	190	9.50%
974940	92	<2	46	<1	22	86	7.04%
974941	86	<2	24	<1	9	40	6.74%
974942	84	19	27	<1	6	990	8.20%
974943	92	6	29	<1	8	125	7.40%
974944	84	<2	23	<1	18	68	6.58%
974945	76	<2	23	<1	12	34	5.38%
974946	26	<2	14	<1	8	28	2.08%
974947	50	<2	27	<1	14	130	6.26%
974948	68	<2	31	<1	12	94	5.92%
974949	84	6	32	<1	11	160	7.08%
974950	54	<2	32	<1	4	100	4.97%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



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Analysis code A1/1.2

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NATA Certificate

Order No. 31943

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
974951	41	<2	25	<1	5	30	3.80%
974953	50	<2	41	<1	4	30	3.82%
974954	68	<2	43	<1	9	125	6.94%
974955	64	<2	82	<1	2	1020	6.18%
974956	82	4	100	<1	14	500	5.44%
974957	88	<2	105	<1	23	730	6.08%
974958	66	3	30	<1	9	28	5.60%
974959	85	5	36	<1	10	32	6.92%
974960	66	<2	52	<1	11	52	4.83%
974961	68	<2	54	<1	14	70	4.34%
974962	80	<2	48	<1	13	58	4.88%
974963	62	<2	24	<1	8	32	4.26%
974964	94	5	32	<1	19	140	6.26%
974965	115	9	29	<1	26	76	7.36%
974966	82	74	33	<1	12	720	7.34%
974967	90	3	42	<1	11	62	7.62%
974968	76	4	34	<1	13	88	7.02%
974969	88	7	37	<1	15	180	6.98%
974970	84	18	39	<1	13	110	7.12%
974971	86	6	40	<1	13	210	8.10%
974972	105	4	44	<1	12	110	7.68%
974973	90	31	43	<1	26	135	6.64%
974974	130	22	70	<1	10	2400	6.52%
974975	100	<2	70	<1	12	950	6.80%
974976	86	11	46	<1	25	115	5.52%
974977	94	4	36	<1	32	110	6.54%
974978	115	3	37	<1	36	78	7.92%
974979	62	17	28	<1	6	68	3.93%
974980	68	5	37	<1	11	66	5.80%
974981	50	<2	22	<1	8	50	5.42%
974982	52	<2	27	<1	3	58	7.06%

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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Extended.

031

Analysis code A1/1,2

Report AC 3898/85

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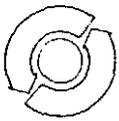
NATA Certificate

Order No. 31935

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231446	22	9	16	<1	5	1.99%	82
1231447	115	27	46	<1	7	6.74%	120
1231448	31	11	17	<1	3	1.51%	50
1231449	110	14	40	<1	17	7.40%	78
1231450	76	29	35	<1	19	7.16%	145
1231451	84	26	37	<1	8	7.66%	105
1231452	100	19	68	<1	15	9.88%	610
1231453	27	27	60	<1	3	4.00%	345
1231454	78	35	105	<1	24	6.38%	1720
1231455	50	33	76	<1	18	5.92%	425
1231456	68	120	76	<1	335	5.58%	680
1231457	94	180	130	<1	24	7.28%	580
1231458	24	175	290	1	28	5.90%	850
1231459	8	35	52	<1	5	2.09%	56
1231460	10	48	82	<1	3	6.00%	570
1231461	9	82	37	<1	5	4.82%	34
1231462	16	86	170	<1	13	12.5%	215
1197901	10	82	52	<1	8	5.64%	1120
1197902	13	135	135	<1	9	10.1%	5850
1197903	11	45	45	<1	11	7.08%	395
1197904	22	60	49	<1	7	8.08%	225
1197905	15	46	43	<1	13	8.32%	1820
1197906	29	22	39	<1	19	4.94%	240
1197907	45	60	76	<1	17	9.72%	2180
1197908	90	16	120	<1	11	8.98%	1180
1197909	130	45	92	<1	8	7.86%	395
1197910	92	86	125	<1	23	10.6%	380
1197911	86	33	82	<1	8	8.30%	375
1197912	88	42	72	<1	8	8.48%	380
1197913	76	22	39	<1	5	4.09%	1280
1197914	76	24	40	<1	15	6.96%	1040
1197915	90	21	54	<1	16	7.14%	125
1197916	98	15	78	<1	22	7.00%	215
1197917	64	22	110	<1	5	7.86%	1260
1197918	78	21	84	<1	11	4.96%	270
1197919	66	17	82	<1	7	6.28%	550
1197920	100	44	375	<1	66	8.50%	1060
1197921	105	42	165	<1	305	4.39%	295
1197922	58	31	68	<1	26	5.58%	960
1197923	94	48	45	<1	580	4.29%	465

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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032

Analysis code A1/1,2

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NATA Certificate

Order No. 31935

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1197924	82	180	400	<1	14	8.20%	1100
1197925	7	48	31	<1	10	3.43%	80
1197926	6	34	52	<1	56	5.44%	120
1197927	10	72	30	<1	3	6.56%	22
1197928	8	92	130	<1	12	13.1%	110
1197929	6	47	34	<1	12	5.70%	30
1197930	10	34	43	<1	19	9.16%	76
1197931	5	30	48	<1	11	10.6%	350
1197932	13	64	56	<1	10	7.20%	2180
1197933	19	80	70	<1	9	9.04%	4800
1197934	14	115	115	<1	13	20.8%	4720
1197935	60	47	68	<1	23	11.8%	1720
1197936	39	34	56	<1	12	6.00%	4880
1197937	10	23	47	<1	6	7.62%	680
1197938	47	22	42	<1	7	7.42%	120
1197939	33	68	92	<1	22	8.76%	1.92%
1197940	29	60	80	<1	11	9.02%	9250
1197941	36	70	100	<1	15	11.3%	4900
1197942	37	20	38	<1	9	5.22%	130
1197943	23	35	105	<1	5	3.16%	780
1197944	56	21	110	<1	8	5.50%	1600
1197945	92	18	140	<1	13	6.40%	1700
1197946	78	24	165	<1	6	6.32%	1440
1197947	82	16	96	<1	4	6.20%	900
1197948	62	19	62	<1	16	5.90%	790
1197949	52	18	78	<1	22	5.92%	395
1197950	82	35	145	<1	100	5.28%	195
1197951	72	26	50	<1	17	5.58%	250
1197952	20	14	16	<1	25	2.42%	36
1197953	64	28	46	<1	98	5.76%	80
1197954	14	22	25	<1	36	3.81%	130
1197955	14	88	62	<1	10	7.88%	1660
1197956	13	86	50	<1	10	7.34%	215
1197957	7	30	27	<1	3	6.02%	235
1197958	60	390	245	<1	<2	22.5%	670
1197959	14	62	30	<1	6	3.87%	520
1197960	15	60	92	<1	13	7.46%	145
1197961	10	105	105	<1	8	7.04%	1280
1197962	14	29	38	<1	9	8.12%	215
1197963	15	50	54	<1	6	7.42%	2540

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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amdel

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033

Analysis code A1/1,2

Report AC 3898/85

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NATA Certificate

Order No. 31935

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1197964	22	88	74	<1	12	8.26%	8950
1197965	27	43	62	<1	13	9.78%	800
1197966	28	90	41	<1	13	7.06%	3160
1197967	31	34	40	<1	12	6.54%	3320
1197968	20	17	84	<1	27	9.76%	1020
1197969	125	66	125	<1	10	11.2%	1220
1197970	47	29	105	<1	5	7.90%	205
1197971	115	25	25	<1	9	3.88%	130
1197972	62	18	33	<1	8	4.77%	600
1197973	68	17	34	<1	14	6.26%	440
1197974	105	20	40	<1	17	7.14%	160
1197975	62	15	48	<1	14	6.56%	790
1197976	60	20	66	<1	11	5.54%	780
1197977	74	19	56	<1	17	6.40%	110
1197978	48	14	56	<1	11	6.54%	72
1197979	96	25	50	<1	17	6.74%	30
1197980	72	50	285	<1	54	6.54%	315
1197981	56	22	82	<1	31	5.32%	135
1197982	90	18	68	<1	8	6.20%	305
1197983	29	92	125	<1	15	9.22%	1740
1197984	16	28	125	<1	3	7.04%	215
1197985	62	94	200	<1	5	9.34%	7800
1197986	19	82	78	<1	6	6.24%	500
1197987	16	74	70	<1	<2	6.18%	2040
1197988	9	44	37	<1	6	4.42%	1100
1197989	8	44	28	<1	9	6.32%	1020
1197990	18	150	160	<1	26	8.10%	2440
1197991	7	45	47	<1	5	7.30%	395
1197992	16	62	40	<1	5	6.36%	1160
1197993	31	11	125	<1	8	6.96%	1.08%
1197994	16	32	82	<1	13	10.8%	820
1197995	7	23	41	<1	8	6.72%	760
1197996	15	27	26	<1	14	6.66%	180
1197997	28	12	62	<1	15	5.32%	1140
1197998	28	27	64	<1	17	8.90%	335
1197999	30	62	165	<1	13	8.86%	1700
1154821	90	36	70	<1	17	10.4%	300
1154822	72	33	29	<1	14	6.36%	56
1154823	82	14	25	<1	13	7.80%	42
1154824	130	45	37	<1	16	9.08%	48

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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amdel

048035

Analysis code A1/1,2

Report AC 3898/85

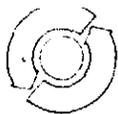
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NATA Certificate

Order No. 31935

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1154825	74	27	29	<1	9	6.70%	52
1154826	84	16	43	<1	15	6.62%	34
1154827	33	15	30	<1	9	4.30%	110
1154828	54	16	41	<1	13	6.66%	100
1154829	64	13	78	<1	14	6.98%	46
1154830	28	20	38	<1	7	3.74%	195
1154831	62	25	80	<1	14	5.42%	2480
1154832	76	31	64	<1	4	6.72%	1440
1154833	21	68	170	<1	10	6.58%	3600
1154834	14	58	195	<1	11	7.06%	1360
1154835	8	62	96	<1	12	8.46%	5300
1154836	19	43	145	<1	19	8.06%	8950
1154837	12	215	68	<1	12	4.89%	3640
1154838	10	90	98	<1	8	6.04%	650
1154839	13	280	86	<1	12	9.68%	4100
1154840	7	52	54	<1	15	7.08%	395
1154841	31	70	54	<1	7	5.22%	790
1154842	14	34	78	<1	9	7.86%	185
1154843	17	62	76	<1	13	8.04%	830
1154844	21	72	110	<1	16	11.9%	780
1154845	16	82	68	<1	10	9.04%	2020
1154846	24	78	125	<1	14	13.2%	1460
1154847	37	45	60	<1	16	6.20%	3940
1154848	34	240	80	<1	9	6.72%	3600
1154849	39	37	120	<1	29	10.5%	510
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



amdel

048036

Grid  
Soils

035

Garden of Eden

Analysis code A1/1.2

Report AC 3845/85

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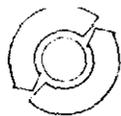
NATA Certificate

Order No. 31934

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231257	58	43	40	<1	8	6.32%	325
1231258	100	27	39	<1	11	7.48%	200
1231259	56	5	115	<1	13	4.81%	750
1231260	39	9	56	<1	2	8.08%	1020
1231261	76	14	84	<1	11	4.66%	435
1231262	45	8	74	<1	19	5.14%	550
1231263	105	34	115	<1	8	9.80%	130
1231264	68	25	74	<1	<2	5.42%	580
1231265	74	16	56	<1	9	4.75%	640
1231266	88	25	82	<1	13	6.36%	105
1231267	92	40	92	<1	32	8.36%	125
1231268	98	28	33	<1	22	6.50%	40
1231269	100	27	42	<1	10	6.52%	195
1231270	78	22	66	<1	7	6.30%	1080
1231271	100	36	41	<1	13	7.78%	175
1231272	130	33	44	<1	14	10.4%	110
1231273	72	25	21	<1	15	7.02%	68
1231274	86	31	33	<1	28	6.64%	56
1231275	120	36	28	<1	17	7.34%	40
1231276	150	25	31	<1	11	6.14%	58
1231277	105	42	26	<1	13	7.70%	68
1231278	120	34	25	<1	14	6.26%	56
1231279	100	32	24	<1	17	6.72%	120
1231280	96	39	38	<1	13	8.90%	100
1231281	74	27	23	<1	15	6.78%	56
1231282	88	42	37	<1	10	7.18%	78
1231283	110	90	56	<1	12	6.94%	50
1231284	88	38	56	<1	25	4.98%	36
1231285	84	35	58	<1	11	7.12%	125
1231286	16	4	60	<1	3	2.43%	68
1231287	15	8	22	<1	6	3.11%	88
1231288	46	6	205	<1	<2	6.26%	830
1231289	80	12	49	<1	5	8.28%	96
1231290	15	11	18	<1	4	1.66%	44
1231291	4	5	11	<1	2	6350	10
1231292	10	6	38	<1	5	5.92%	185
1231293	14	9	35	<1	8	5.48%	100
1231294	12	12	33	<1	3	5.90%	130
1231295	11	<2	20	<1	8	3.97%	46
1231296	14	9	24	<1	6	5.68%	66

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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036

Analysis code A1/1.2

Report AC 3845/85

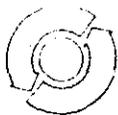
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NATA Certificate

Order No. 31934

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231297	11	3	21	<1	5	6.10%	54
1231298	45	18	100	<1	19	4.68%	265
1231299	32	56	105	<1	23	8.32%	120
1231300	38	325	120	<1	6	6.50%	295
1231301	28	110	145	<1	6	6.88%	580
1231302	16	28	45	<1	4	6.90%	1540
1231303	29	115	60	<1	6	8.82%	120
1231304	52	780	270	<1	<2	6.82%	1620
1231305	16	120	68	<1	8	6.14%	210
1231306	24	130	49	<1	9	5.48%	34
1231307	56	86	155	<1	13	10.6%	1420
1231308	20	245	44	<1	68	4.69%	64
1231309	12	62	34	<1	7	4.37%	280
1231310	18	115	140	<1	12	10.1%	180
1231311	7	50	66	<1	7	8.02%	430
1231312	6	34	47	<1	9	5.08%	195
1231313	72	240	205	<1	13	8.16%	580
1231314	52	24	175	<1	6	8.32%	1.48%
1231315	44	58	92	2	12	6.80%	230
1231316	34	31	86	<1	9	6.92%	190
1231317	56	76	135	<1	23	7.96%	365
1231318	52	64	98	<1	18	9.56%	870
1231319	19	18	115	<1	3	6.50%	400
1231320	41	62	105	<1	9	4.75%	110
1231321	40	40	82	<1	13	5.72%	495
1231322	34	45	105	<1	11	5.20%	125
1231323	56	17	100	<1	11	6.82%	170
1231324	47	76	155	<1	18	10.4%	170
1231325	56	25	66	<1	12	8.40%	300
1231326	56	13	70	<1	4	5.40%	115
1231327	23	385	42	<1	20	8.36%	1020
1231328	7	70	50	<1	2	5.84%	36
1231329	50	295	66	<1	10	7.06%	98
1231330	52	270	96	<1	35	7.90%	405
1231331	23	62	46	<1	17	7.96%	1400
1231332	25	76	58	<1	5	6.86%	135
1231333	38	66	23	<1	19	3.33%	26
1231334	31	47	90	<1	16	10.1%	145
1231335	35	60	58	<1	8	4.66%	265
1231336	6	72	41	<1	8	6.04%	1200
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



amdel

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037

Analysis code A1/1,2

Report AC 3845/85

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NATA Certificate

Order No. 31934

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231337	40	56	105	<1	6	6.82%	335
1231338	2	36	74	<1	11	9.68%	770
1231339	21	84	54	<1	11	8.24%	390
1231340	18	78	52	<1	15	6.76%	64
1231341	22	45	52	<1	11	4.83%	275
1231342	38	100	160	<1	26	16.3%	880
1231343	23	76	105	<1	14	9.46%	1340
1231344	36	60	86	<1	9	5.70%	520
1231345	54	74	205	<1	22	8.74%	600
1231346	145	52	145	<1	16	7.16%	540
1231347	39	33	84	<1	8	5.94%	1300
1231348	62	19	31	<1	4	7.12%	160
1231349	47	20	42	<1	9	6.84%	3020
1231350	68	10	35	<1	7	7.80%	1220
1231351	74	11	60	<1	6	6.64%	1580
1231352	82	21	64	<1	6	7.94%	210
1231353	78	45	72	<1	19	10.4%	330
1231354	58	13	72	<1	12	8.48%	2600
1231355	195	12	37	<1	4	5.62%	1780
1231356	24	310	76	<1	5	9.42%	520
1231357	46	60	86	<1	12	6.66%	690
1231358	44	30	86	<1	9	6.66%	465
1231359	41	21	84	<1	9	5.30%	205
1231360	52	120	115	<1	19	12.4%	425
1231361	27	72	46	<1	6	5.72%	255
1231362	52	26	94	<1	6	7.36%	770
1231363	19	105	14	<1	8	2.59%	44
1231364	47	130	105	<1	14	8.20%	150
1231365	230	30	21	<1	58	4.30%	115
1231366	30	38	41	<1	8	5.86%	80
1231367	18	37	56	<1	2	9.02%	305
1231368	33	34	56	<1	11	5.24%	205
1231369	38	39	72	<1	12	5.46%	355
1231370	25	58	90	<1	9	4.21%	150
1231371	76	66	210	<1	11	8.30%	830
1231372	52	130	145	<1	30	6.28%	760
1231373	125	54	125	<1	11	10.4%	1220
1231374	40	45	40	<1	13	6.82%	130
1231375	62	35	41	<1	9	6.52%	100
1231376	170	11	66	<1	6	6.88%	540
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



amdel

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038

Analysis code A1/1,2

Report AC 3845/85

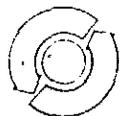
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NATA Certificate

Order No. 31934

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231377	54	17	40	<1	8	9.16%	2560
1231378	96	16	50	<1	6	7.98%	355
1231379	110	11	50	<1	5	8.14%	2140
1231380	34	15	44	<1	3	5.08%	72
1231381	49	14	56	<1	8	7.34%	78
1231382	68	47	60	<1	18	6.40%	1000
1231383	200	15	82	<1	11	9.12%	670
1231384	42	17	32	<1	9	5.68%	1360
1231385	34	235	155	<1	14	13.9%	1260
1231386	20	76	88	<1	7	10.8%	34
1231387	27	62	56	<1	14	7.36%	56
1231388	19	86	60	<1	8	7.30%	135
1231389	17	88	250	<1	6	7.84%	58
1231390	10	41	54	<1	6	2.80%	36
1231391	56	52	58	<1	7	6.24%	22
1231392	42	285	210	<1	15	13.0%	2580
1231393	31	98	220	<1	21	7.80%	98
1231394	27	105	60	<1	10	5.78%	125
1231395	34	68	78	<1	12	9.72%	180
1231396	35	105	94	<1	11	6.40%	135
1231397	32	40	110	<1	8	6.04%	510
1231398	33	280	78	<1	36	4.30%	350
1231399	48	30	110	<1	14	10.6%	2160
1231400	130	86	195	<1	14	9.50%	1080
1231401	105	50	96	<1	13	5.18%	300
1231402	300	34	44	<1	17	6.38%	86
1231403	33	30	38	<1	10	7.26%	110
1231404	50	21	160	<1	8	7.56%	890
1231405	76	11	31	<1	5	5.32%	92
1231406	37	13	38	<1	15	6.68%	205
1231407	40	16	62	<1	16	10.7%	175
1231408	29	19	60	<1	11	5.56%	110
1231409	49	27	78	<1	20	14.1%	425
1231410	48	15	42	<1	6	5.04%	34
1231411	50	7	68	<1	7	5.94%	46
1231412	42	25	41	<1	14	6.18%	280
1231413	54	30	45	<1	20	6.58%	245
1231414	5	5	10	<1	<2	1.50%	92
1231415	6	2	13	<1	<2	1.50%	94
1231416	17	25	27	<1	<2	2.21%	220
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



amdel

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039

Analysis code A1/1,2

Report AC 3845/85

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NATA Certificate

Order No. 31934

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1231417	30	10	22	<1	6	4.65%	90
1231418	23	9	25	<1	4	2.40%	300
1231419	24	8	38	<1	2	3.11%	490
1231420	37	3	130	<1	3	7.36%	2360
1231421	8	10	115	<1	3	7.42%	445
1231422	5	4	140	<1	3	6.88%	445
1231423	7	10	92	<1	2	6.72%	2240
1231424	10	5	110	<1	3	6.72%	1900
1231425	17	9	38	<1	3	3.44%	450
1231426	18	11	26	<1	3	1.61%	96
1231427	18	11	21	<1	3	2.24%	98
1231428	12	7	14	<1	2	1.70%	115
1231429	23	10	24	<1	<2	8450	32
1231430	14	8	22	<1	3	4.78%	78
1231431	8	11	62	<1	5	7.46%	405
1231432	30	30	105	<1	8	5.74%	650
1231433	43	15	58	<1	7	4.25%	470
1231434	56	16	48	<1	11	5.66%	890
1231435	47	11	49	<1	8	5.62%	780
1231436	175	18	32	<1	74	4.53%	1800
1231437	9	2	17	<1	5	4.23%	850
1231438	4	7	10	<1	<2	4.11%	265
1231439	11	8	25	<1	4	5.48%	1680
1231440	17	10	84	<1	7	6.78%	760
1231441	15	6	41	<1	2	5.40%	255
1231442	155	33	180	<1	6	7.76%	1400
1231443	45	30	105	<1	14	7.22%	1940
1231444	44	13	92	<1	13	7.18%	305
1231445	13	7	17	<1	3	9100	84
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)

040

Garden of Eden Souths.

048041

Report AC 3845/85  
Page 1ANALYSIS  
g/tonne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1231257	0.015	1231277	0.015	1231297	0.010
1231258	0.010	1231278	<0.005	1231298	<0.005
1231259	0.005	1231279	0.020	1231299	0.005
1231260	<0.005	1231280	0.005	1231300	<0.005
1231261	<0.005	1231281	<0.005	1231301	<0.005
1231262	<0.005	1231282	0.005	1231302	0.015
1231263	<0.005	1231283	0.010	1231303	0.005
1231264	<0.005	1231284	<0.005	1231304	<0.005
1231265	<0.005	1231285	<0.005	1231305	<0.005
1231266	0.010	1231286	0.005	1231306	0.015
1231267	<0.005	1231287	<0.005	1231307	<0.005
1231268	<0.005	1231288	<0.005	1231308	0.005
1231269	0.005	1231289	<0.005	1231309	<0.005
1231270	<0.005	1231290	<0.005	1231310	<0.005
1231271	<0.005	1231291	<0.005	1231311	0.010
1231272	<0.005	1231292	<0.005	1231312	<0.005
1231273	<0.005	1231293	<0.005	1231313	<0.005
1231274	0.010	1231294	<0.005	1231314	<0.005
1231275	0.010	1231295	<0.005	1231315	<0.005
1231276	<0.005	1231296	<0.005	1231316	<0.005

Method: A7/2 50g

ANALYSIS  
g/tonne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1231317	<0.005	1231336	0.005	1231356	0.005
1231318	<0.005	1231337	<0.005	1231357	<0.005
1231319	<0.005	1231338	<0.005	1231358	<0.005
1231320	<0.005	1231339	<0.005	1231359	<0.005
1231321	<0.005	1231340	<0.005	1231360	<0.005
1231322	<0.005	1231341	<0.005	1231361	0.010
1231323	<0.005	1231342	<0.005	1231362	<0.005
1231324	<0.005	1231343	<0.005	1231363	<0.005
1231325	0.005	1231344	<0.005	1231364	<0.005
1231326	<0.005	1231345	<0.005	1231365	0.010
1231327	<0.005	1231346	<0.005	1231366	0.005
1231328	<0.005	1231347	<0.005	1231367	<0.005
1231329	<0.005	1231348	<0.005	1231368	0.005
1231330	<0.005	1231349	<0.005	1231369	0.005
1231331	<0.005	1231350	<0.005	1231370	<0.005
1231332	<0.005	1231351	<0.005	1231371	<0.005
1231333	<0.005	1231352	<0.005	1231372	0.005
1231334	<0.005	1231353	0.010	1231373	<0.005
1231335	<0.005	1231354	<0.005	1231374	<0.005
		1231355	<0.005	1231375	<0.005

Method: A7/2 50g

ANALYSIS  
g/tonne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1231376	0.005	1231396	<0.005	1231416	0.005
1231377	0.005	1231397	<0.005	1231417	0.015
1231378	<0.005	1231398	<0.005	1231418	0.005
1231379	<0.005	1231399	<0.005	1231419	<0.005
1231380	<0.005	1231400	<0.005	1231420	0.010
1231381	<0.005	1231401	<0.005	1231421	0.005
1231382	<0.005	1231402	<0.005	1231422	<0.005
1231383	<0.005	1231403	0.005	1231423	0.010
1231384	0.010	1231404	<0.005	1231424	<0.005
1231385	<0.005	1231405	<0.005	1231425	0.005
1231386	0.005	1231406	<0.005	1231426	0.005
1231387	<0.005	1231407	<0.005	1231427	0.015
1231388	<0.005	1231408	<0.005	1231428	<0.005
1231389	<0.005	1231409	0.015	1231429	<0.005
1231390	<0.005	1231410	0.005	1231430	<0.005
1231391	<0.005	1231411	0.020	1231431	<0.005
1231392	0.005	1231412	0.005	1231432	<0.005
1231393	<0.005	1231413	<0.005	1231433	<0.005
1231394	0.010	1231414	<0.005	1231434	<0.005
1231395	<0.005	1231415	0.010	1231435	<0.005

Method: A7/2 50g

043

048044

Report AC 3845/85  
Page 4

ANALYSIS  
g/tonne

<u>SAMPLE MARK</u>	<u>GOLD Au</u>
1231436	<0.005
1231437	<0.005
1231438	<0.005
1231439	<0.005
1231440	<0.005
1231441	<0.005
1231442	<0.005
1231443	<0.005
1231444	<0.005
1231445	<0.005

Method: A7/2 50g

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APPENDIX 2

SOIL GEOCHEMICAL RESULTS:

LAKE BARRINGTON GRID

LAKE BARRINGTONReport AC 4468/85  
Page 1ANALYSIS  
g/tcnne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1198121	<0.005	1198141	<0.005	1198161	<0.005
122	<0.005	142	<0.005	162	0.010
123	<0.005	143	<0.005	163	0.005
124	<0.005	144	<0.005	164	0.030
125	0.005	145	<0.005	165	0.005
126	0.005	146	<0.005	166	0.050
127	0.015	147	<0.005	167	0.015
128	0.005	148	<0.005	168	0.025
129	<0.005	149	<0.005	169	0.005
130	0.020	150	<0.005	170	<0.005
131	0.020	151	0.005	171	0.005
132	<0.005	152	0.010	172	<0.005
133	0.005	153	0.005	173	<0.005
134	0.005	154	0.010	174	<0.005
135	<0.005	155	<0.005	175	0.165
136	<0.005	156	<0.005	176	0.070
137	0.005	157	0.005	177	<0.005
138	<0.005	158	0.005	178	<0.005
139	<0.005	159	0.005	179	0.105
140	<0.005	160	0.005	180	0.005

Method: A7/2

ANALYSIS  
g/tonne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1198181	<0.005	972345	<0.005	1198236	<0.005
✓ 182	0.010	346	0.005	237	<0.005
183	0.005	347	0.005	238	<0.005
✓ 184	0.015	✓ 348	0.050	239	<0.005
185	0.005			240	0.015
✓ 186	0.010	1198221	<0.005	241	<0.005
✓ 187	0.010	22	<0.005	242	0.005
188	0.005	23	<0.005	243	0.005
189	<0.005	✓ 24	0.015	244	<0.005
190	<0.005	25	<0.005	245	<0.005
191	<0.005	26	<0.005	246	0.070
192	<0.005	27	<0.005	247	0.005
✓ 193	0.010	28	<0.005	248	0.040
194	0.005	29	<0.005	249	0.010
195	0.005	30	<0.005	250	0.010
✓ 196	0.020	31	<0.005	251	<0.005
197	0.005	32	<0.005	252	0.005
✓ 198	0.010	33	<0.005	253	0.020
199	<0.005	34	<0.005	254	0.005
✓ 200	0.010	35	<0.005	255	<0.005

Method: A7/2

047

048048

Report AC 4468/85  
Page 3ANALYSIS  
g/tonne

SAMPLE MARK	GOLD Au	SAMPLE MARK	GOLD Au
1198256	<0.005	1198276	<0.005
257	0.005	277	0.005
258	0.005	278	<0.005
259	0.005	279	<0.005
260	0.005	280	0.005
261	<0.005	281	<0.005
262	<0.005	282	0.010
263	<0.005	283	<0.005
264	<0.005		
265	<0.005		
266	0.005		
267	<0.005		
268	<0.005		
269	0.005		
270	<0.005		
271	<0.005		
272	0.005		
273	0.005		
274	0.005		
275	0.005		

Method: A7/2



amdel

Analysis code A1/1.2

Report AC 4468/85

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NATA Certificate

Order No. 31948

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1198121	58	8	20	<1	4	295	3.63%
1198122	25	4	11	<1	9	62	3.77%
1198123	54	13	25	<1	12	44	7.36%
1198124	24	13	29	<1	12	56	6.20%
1198125	33	4	20	<1	9	66	4.26%
1198126	20	10	20	<1	9	34	5.38%
1198127	5	<2	10	<1	<2	46	5050
1198128	32	9	23	<1	4	210	3.68%
1198129	16	10	19	<1	5	56	5.18%
1198130	22	7	24	<1	8	280	5.54%
1198131	9	9	12	<1	6	38	4.01%
1198132	41	17	29	<1	14	50	9.00%
1198133	21	16	22	<1	5	58	4.42%
1198134	41	12	24	<1	9	56	4.85%
1198135	27	7	18	<1	4	32	2.45%
1198136	14	11	17	<1	4	74	5.80%
1198137	120	26	23	<1	14	66	6.66%
1198138	80	22	22	<1	13	56	8.42%
1198139	125	20	30	<1	20	76	7.52%
1198140	88	11	21	<1	14	115	5.58%
1198141	115	9	22	<1	23	255	6.62%
1198142	120	9	31	<1	22	380	7.36%
1198143	170	6	17	<1	9	110	6.36%
1198144	345	10	15	<1	5	38	3.71%
1198145	68	11	19	<1	28	410	5.38%
1198146	415	9	17	<1	19	130	5.38%
1198147	195	<2	30	<1	4	590	6.50%
1198148	485	<2	19	<1	8	145	4.87%
1198149	115	6	32	<1	8	730	6.10%
1198150	50	13	28	<1	9	155	6.76%
1198151	22	9	13	<1	2	32	6.36%
1198152	14	13	12	<1	4	50	8.18%
1198153	16	9	18	<1	6	30	5.74%
1198154	18	5	14	<1	3	36	1.38%
1198155	13	<2	12	<1	4	62	2.73%
1198156	25	4	12	<1	6	44	1.95%
1198157	15	4	8	<1	3	54	1.44%
1198158	23	14	28	<1	10	72	4.30%
1198159	78	8	86	<1	3	415	12.2%
1198160	92	5	98	<1	3	680	11.5%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



amdel

Analysis code A1/1.2

Report AC 4468/85

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NATA Certificate

Order No. 31948

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1198161	84	11	72	<1	5	260	13.3%
1198162	72	44	52	<1	11	290	24.5%
1198163	60	9	17	<1	20	58	4.93%
1198164	21	8	15	<1	7	52	4.65%
1198165	10	14	17	<1	<2	130	3.69%
1198166	37	3	13	<1	2	40	2.11%
1198167	17	<2	16	<1	6	42	5.44%
1198168	18	5	11	<1	4	16	3.16%
1198169	22	9	20	<1	8	64	4.23%
1198170	29	9	17	<1	6	50	3.84%
1198171	86	17	19	<1	7	96	5.58%
1198172	48	12	20	<1	8	720	6.40%
1198173	23	11	20	<1	4	115	2.79%
1198174	25	14	18	<1	12	32	9.80%
1198175	9	5	13	<1	11	34	4.33%
1198176	32	7	11	<1	6	52	3.68%
1198177	54	12	15	<1	14	50	4.08%
1198178	64	8	15	<1	15	28	4.42%
1198179	36	10	18	<1	12	82	6.12%
1198180	50	11	21	<1	15	58	5.66%
1198181	22	8	16	<1	6	60	3.47%
1198182	35	6	14	<1	5	600	4.22%
1198183	39	6	11	<1	7	48	2.96%
1198184	48	10	14	<1	10	520	3.50%
1198185	140	29	23	<1	40	450	5.10%
1198186	200	40	20	<1	84	1680	6.22%
1198187	320	16	23	<1	20	2460	9.22%
1198188	330	48	23	<1	38	325	7.40%
1198189	290	22	27	<1	17	880	8.02%
1198190	170	11	56	<1	4	1720	8.48%
1198191	295	<2	54	<1	5	900	8.12%
1198192	490	6	62	<1	9	2700	13.0%
1198193	230	5	32	<1	7	1280	8.32%
1198194	62	<2	15	<1	11	64	6.24%
1198195	105	5	17	<1	9	94	5.26%
1198196	84	7	18	<1	4	44	4.48%
1198197	26	7	14	<1	4	42	7.08%
1198198	15	6	10	<1	5	36	3.85%
1198199	7	7	5	<1	<2	20	1.50%
1198200	15	12	10	<1	7	28	8050
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)



Analysis code A1/1,2

Report AC 4468/85

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NATA Certificate

Order No. 31948

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
972345	10	6	8	<1	4	64	4.68%
972346	11	14	18	<1	6	50	4.32%
972347	11	14	14	<1	8	72	8.08%
972348	13	18	20	<1	3	32	9.40%
1198221	12	8	19	<1	9	76	5.36%
1198222	14	9	18	<1	13	105	4.42%
1198223	23	13	20	<1	12	385	4.82%
1198224	32	8	24	<1	33	990	5.36%
1198225	130	18	20	<1	7	670	3.43%
1198226	74	10	13	<1	10	325	3.58%
1198227	17	4	17	<1	10	84	5.64%
1198228	9	<2	11	<1	4	54	2.07%
1198229	22	4	16	<1	9	920	4.10%
1198230	14	8	8	<1	5	64	2.85%
1198231	11	6	15	<1	9	76	3.81%
1198232	16	11	8	<1	8	34	1.91%
1198233	39	11	17	<1	7	160	3.69%
1198234	86	11	14	<1	18	220	4.00%
1198235	29	8	13	<1	12	140	3.73%
1198236	9	10	12	<1	6	130	2.62%
1198237	12	5	11	<1	7	560	3.61%
1198238	34	20	16	<1	10	275	3.93%
1198239	56	22	21	<1	18	330	4.19%
1198240	92	28	36	<1	25	98	6.02%
1198241	90	16	25	<1	21	105	5.18%
1198242	240	23	47	<1	43	1340	7.94%
1198243	1020	30	47	<1	41	1560	12.0%
1198244	335	11	26	<1	19	1440	9.06%
1198245	275	16	18	<1	10	660	7.84%
1198246	265	9	15	<1	9	660	6.04%
1198247	320	8	12	<1	7	160	5.12%
1198248	660	15	10	<1	46	1580	5.12%
1198249	76	8	11	<1	38	38	5.16%
1198250	22	4	7	<1	9	66	2.38%
1198251	9	<2	9	<1	6	38	1.69%
1198252	30	15	9	<1	16	38	4.38%
1198253	70	13	10	<1	17	40	3.65%
1198254	43	17	9	<1	17	40	4.61%
1198255	49	19	9	<1	17	32	3.59%
1198256	8	8	7	<1	5	36	4.99%

Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)
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Analysis code A1/1,2

Report AC 4468/85

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Order No. 31948

Results in ppm

Sample	Cu	Pb	Zn	Ag	As	Mn	Fe
1198257	26	7	14	<1	3	62	3.15%
1198258	7	8	18	<1	<2	115	3.25%
1198259	17	<2	26	<1	5	350	4.64%
1198260	6	8	17	<1	2	280	4.06%
1198261	11	8	20	<1	4	94	3.91%
1198262	26	13	15	<1	7	115	4.35%
1198263	12	5	12	<1	4	50	1.92%
1198264	9	9	10	<1	12	36	3.79%
1198265	10	4	14	<1	5	32	3.02%
1198266	11	5	10	<1	6	62	2.68%
1198267	18	10	11	<1	24	48	3.51%
1198268	7	<2	12	<1	2	28	2.35%
1198269	28	9	16	<1	6	54	4.01%
1198270	7	6	8	<1	3	52	2.34%
1198271	130	60	22	<1	56	84	7.16%
1198272	96	29	16	<1	35	115	5.80%
1198273	60	23	18	<1	17	105	5.10%
1198274	56	15	28	<1	22	125	5.54%
1198275	52	5	15	<1	7	1240	3.77%
1198276	68	16	15	<1	10	1200	3.53%
1198277	33	11	15	<1	8	155	3.32%
1198278	26	5	12	<1	9	52	2.95%
1198279	22	18	9	<1	12	54	3.10%
1198280	10	3	9	<1	15	34	2.13%
1198281	27	10	12	<1	35	32	3.05%
1198282	28	15	13	<1	25	94	3.51%
1198283	19	8	8	<1	17	50	2.57%
Detn limit	(2)	(2)	(2)	(1)	(2)	(5)	(5)

APPENDIX 3

SOIL GEOCHEMICAL RESULTS:

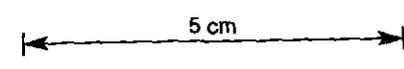
STONEBRIDGE BARITE GRID

C.R EXPLORATION GEOCHEMICAL SAMPLING LEDGER

Tenement name EL 7/23 Sheffield No. 1141042-64 Sample numbers 1141042-64 Collected by P.A. Temby Sheet no. 1 of 1  
 Area / Prospect Stonebridge Ba. Grid Soil Samples Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Line 8000 E Analysed by ALS DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref N	Geological Observations
		ss *	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Au	Fe	As	Ba		
		oc	o/c sample type ***						s sample type **** depth												
1141042	B								45	30	80	<1			5	6.17	3	200	4575		
43	B								45	45	90	1			<3	8.58	4	240	4525		
44	B								35	40	90	1			<3	7.45	3	310	4500		
45	C								25	45	95	<1			<3	5.60	5	710	4475		
46	C								160	65	110	<1			<3	4.94	6	980	4450		
47	B-C								45	55	115	<1			<3	4.95	6	690	4425		
48	B								45	90	135	1			<3	7.28	12	750	4400		
49	B-C								55	140	95	1			<3	6.97	14	560	4375		
50	C								30	80	130	1			<3	6.34	4	590	4350		
51	B-C								30	100	90	1			<3	5.96	8	810	4325		
52	C								25	105	95	1			<3	5.85	7	550	4300		
53	B-C								30	105	130	1			<3	5.83	6	570	4275		
54	B-C								25	45	70	<1			<3	5.82	3	480	4250		
55	B								20	55	50	<1			<3	5.00	5	300	4225		
56	C								30	105	105	1			<3	6.92	2	410	4200		
57	B-C								35	115	70	1			<3	8.55	2	370	4175		
58	C								45	220	105	2			<3	8.78	7	380	4150		
59	C								45	230	60	1			<3	8.62	2	290	4125		
60	C								100	460	190	2			5	9.96	9	430	4100		
61	B-C								20	70	30	1			<3	7.10	2	1000	4075		
62	C								25	80	20	<1			<3	3.11	2	1150	4050		
63	B-C								25	60	35	1			3	4.75	2	390	4025		
1141064	B								5	5	45	<1			5	0.17	<1	<10	4000		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



053

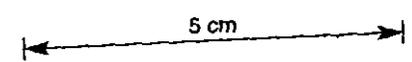
048004

C.R EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

Tenement name EL 7/73 Sheffield No. 1141065 - 1141087 Sample numbers 1141065 - 1141087 Collected by P.P. Temby Sheet no. 2/11/84  
 Area / Prospect Stonebridge Ba Grid Soil Samples Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Line 7900 E Analysed by ALS DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref N	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au PPb	Fe %	As	Ba		
		o/c sample type ***																		
		s sample type ****																		
1141065	B-C							5	10	5	<1			<3	0.17	<1	60	4000		
66	C							30	50	25	<1			<3	4.15	2	440	4025		
67	C							30	85	50	1			3	3.70	1	200	4050		
68	C							40	175	55	1			<3	5.66	5	520	4075		
69	C							45	85	45	<1			3	5.63	5	360	4100		
70	B-C							25	90	150	1			3	7.61	4	960	4125		
71	B-C							35	195	200	2			10	8.66	7	250	4150		
72	C							30	75	120	1			3	8.82	3	410	4175		
73	B-C							40	70	140	1			<3	8.30	2	400	4200		
74	B-C							40	60	115	1			3	7.91	4	520	4225		
75	C							45	60	110	<1			3	7.41	4	510	4250		
76	C							35	45	80	<1			<3	4.70	3	540	4275		
77	B-C							40	60	110	1			<3	6.71	4	500	4300		
78	B-C							45	90	90	<1			<3	5.40	5	440	4325		
79	B-C							25	80	125	<1			<3	5.34	6	460	4350		
80	B-C							40	95	110	1			<3	6.39	12	520	4375		
81	B-C							45	65	120	1			<3	6.60	5	470	4400		
82	B-C							45	55	130	<1			<3	6.20	3	530	4425		
83	C							35	60	100	1			<3	6.63	4	380	4450		
84	B-C							35	45	95	<1			3	5.35	2	500	4475		
85	C							35	50	60	<1			<3	5.46	2	480	4500		
86	C							25	70	80	1			<3	5.45	2	590	4525		
1141087	C							20	45	135	1			<3	6.02	6	500	4550		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A B or C horizon



1141087



C.R EXPLORATION . GEOCHEMICAL SAMPLING LEDGER

Tenement name EL 7/73 Sheffield  
 Area / Prospect Stonebridge Ba Grid  
 Map / Photo reference Sheffield 1:25000  
 A 02143

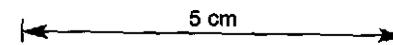
No. Sample numbers 1141090-100, 198-200  
Soil Samples 230-38  
Line 7800 E

Collected by P.A. Temby  
 Analysed by A.L.S.

Sheet no. ....  
 Date 2/11/84  
 DPO no. 31920

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref N	Geological Observations							
		ss*	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As			Ba						
		oc	o/c sample type ***																								
		f	s sample type ****																								
		H																									
114090	BC								35	45	75	1			3	8.95	<1	130	5000								
91	B								60	35	100	<1			3	7.12	3	280	4975								
92	BC								40	45	90	1			3	7.20	<1	390	4950								
93	B								40	45	100	1			<3	6.85	<1	310	4925								
94	B								50	50	110	2			3	8.44	1	570	4900								
95	C								10	35	40	1			<3	4.02	<1	410	4875								
96	C								10	30	25	<1			<3	2.57	1	230	4850								
97	C								30	65	75	2			<3	8.29	4	130	4825								
98	C								10	40	80	1			<3	5.67	3	600	4800								
99	BC								40	40	95	1			<3	6.74	2	500	4775								
100	B								25	45	60	1			<3	6.48	3	390	4750								
198	C								35	50	75	1			<3	6.30	2	440	4725								
199	B								40	45	80	1			<3	6.50	2	270	4700								
200	C								40	40	70	<1			<3	5.74	2	540	4675								
230	C								35	55	90	1			<3	6.87	2	330	4650								
31	C								35	50	65	<1			<3	6.01	3	360	4625								
32	C								40	50	60	1			<3	7.40	2	300	4600								
33	C								15	40	35	<1			<3	6.80	2	230	4575								
34	C								55	75	120	1			<3	6.70	5	440	4550								
35	C								65	65	95	1			<3	6.83	1	340	4525								
36	B								15	45	90	<1			<3	5.96	2	410	4500								
37	B								10	45	65	<1			<3	5.36	<1	400	4475								
38	BC								20	50	45	1			<3	9.25	12	350	4450								

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



056

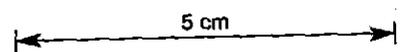
048057

C.R. EXPLORATION GEOCHEMICAL SAMPLI LEDGER

Tenement name EL 7/73 Sheffield No. 1141239-55 Sample numbers Soil Samples Collected by PA Temby Sheet no. 2/11/84  
 Area / Prospect Stonebridge Ba Grid Map / Photo reference Sheffield 1:25000 Line 7800 E Analysed by A.L.S. DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref N	Geological Observations
		ss*	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba		
		oc	o/c sample type ***																		
		f	s sample type ****																		
1141239	B	H							15	55	65	1				<3	6.46	4	430	4425	
40	B-C								20	50	80	<1				<3	5.50	1	340	4400	
41	B								30	80	80	1				<3	5.95	5	310	4375	
42	B								20	65	55	1				<3	7.23	4	370	4325	
43	B								35	95	45	1				<3	6.33	6	400	4300	
44	C								25	65	45	<1				<3	8.37	6	390	4275	
45	C								20	35	30	<1				<3	3.16	1	340	4250	
46	C								65	125	120	1				<3	7.56	4	590	4225	
47	B-C								30	140	85	<1				<3	4.11	6	390	4200	
48	B-C								25	60	90	<1				<3	6.01	3	700	4175	
49	C								75	100	50	1			15	6.26	9	780	4150		
50	C								40	95	65	1			3	6.40	1	310	4125		
51	C								30	65	40	<1			3	5.97	4	290	4100		
52	C								60	65	55	1			<3	8.44	1	180	4075		
53	B								15	20	20	<1			3	1.76	<1	60	4050		
54	A-B								5	10	20	<1			3	0.33	<1	10	4025		
55	A								5	5	10	<1			3	0.49	<1	<10	4000		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A B or C horizon



057

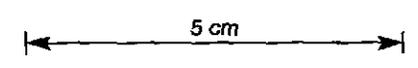
048058

C.P EXPLORATION . GEOCHEMICAL SAMP! LEDGER

Tenement name EL 7/73 Sheffield No. 114/256-78 Sample numbers 114/256-78 Collected by P.A. Temby Sheet no. 058  
 Area / Prospect Stonebridge Ba Grid Soil Samples Date 2/11/84  
 Map / Photo reference Sheffield P. 25000 Line 7700 E Analysed by A.L.S. DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref N	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba			
		a/c sample type ***							s sample type ****												
114/256								5	5	25	<1			3	0.12	<1	<10	4000			
57								10	15	30	<1			3	2.36	<1	<10	4025			
58								45	70	55	2			<3	8.76	4	50	4050			
59								40	55	65	1			<3	7.39	<1	120	4075			
60								35	50	65	1			<3	7.49	1	280	4100			
61								35	45	50	1			<3	7.09	<1	150	4125			
62								10	35	20	<1			<3	5.94	3	390	4150			
63								10	35	65	<1			<3	5.13	<1	290	4175			
64								15	45	40	<1			<3	4.79	3	250	4200			
65								10	50	95	1			<3	5.33	<1	690	4225			
66								15	55	65	<1			<3	6.08	3	380	4250			
67								10	75	75	1			<3	6.43	2	570	4275			
68								15	50	90	1			3	6.75	3	610	4300			
69								10	45	80	1			<3	5.84	2	520	4325			
70								30	65	80	1			<3	5.85	2	480	4350			
71								15	50	70	1			<3	6.13	5	300	4375			
72								15	55	60	1			<3	4.83	3	530	4400			
73								15	55	90	2			<3	6.81	6	580	4425			
74								10	55	90	1			<3	6.09	4	530	4450			
75								15	55	80	1			<3	6.55	3	520	4475			
76								25	50	70	1			<3	6.12	1	550	4500			
77								15	60	110	1			<3	7.14	4	390	4525			
78								15	55	55	1			<3	6.38	3	580	4550			

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



048059

C.R EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

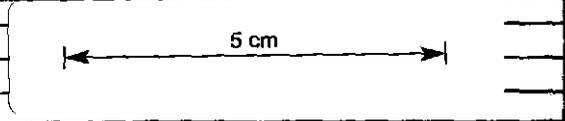
Tenement name EL 7/73 Sheffield No. 114279-96 Sample numbers 114279-96 Collected by PA Temby Sheet no.           
 Area / Prospect Stonebridge Ba Grid Line 7700 E Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Analysed by ALS DPO no. 31920  
 A 02143

059

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations	
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba				
		o/c sample type ***							s sample type ****													
114279									15	50	75	1					<3	6.39	2	360	4575	
80									10	35	30	<1					<3	3.45	2	360	4600	
81									10	40	60	<1					<3	5.51	2	310	4625	
82									10	40	60	<1					<3	4.82	2	490	4650	
83									5	45	110	<1					<3	4.95	3	310	4675	
84									5	40	55	<1					<3	4.68	<1	370	4700	
85									10	40	40	<1					<3	4.08	8	310	4725	
86									5	35	30	<1					<3	3.45	2	390	4750	
87									15	30	40	<1					<3	3.82	2	290	4775	
88									5	20	35	<1					<3	2.51	<1	370	4800	
89									10	35	45	<1					<3	3.08	2	610	4825	
90									5	30	30	<1					<3	3.40	2	430	4850	
91									25	45	85	<1					<3	5.93	18	280	4875	
92									15	35	45	<1					<3	3.57	2	350	4900	
93									15	40	55	<1					<3	4.06	2	720	4925	
94									25	45	75	1					<3	7.82	3	440	4950	
95									20	50	50	1					<3	5.97	4	440	4975	
96									70	50	150	<1					<3	9.80	1	140	5000	

048060

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

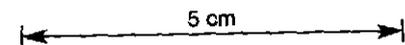


C.R EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

Tenement name EL 7/73 Sheffield No. 1141299, 300, 345-65 Sample numbers Line 7600 E Collected by PA Temby Sheet no.           
 Area / Prospect Stonebridge Bn Grid Map / Photo reference Sheffield 1:25000 Soil Samples. Analysed by ALS Date 2/11/84  
 A 02143 DPO no. 31920

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations	
		ss *	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As			Ba
		oc	o/c sample type ***																		
		f	s sample type ****																		
1141299									25	35	50	1				<3	4.71	2	530	4975	
300									30	45	90	1				<3	8.86	2	410	4950	
345									15	40	90	1				<3	7.28	<1	450	4925	
46									10	35	50	1				<3	4.04	<1	550	4900	
47									15	35	55	1				<3	5.40	<1	590	4875	
48									5	35	45	1				<3	4.61	1	330	4850	
49									5	30	40	<1				<3	3.25	<1	310	4825	
50									5	30	35	1				<3	2.04	<1	340	4800	
51									15	40	65	1				<3	4.70	2	520	4775	
52									15	40	50	1				<3	4.97	2	310	4750	
53									35	35	35	<1				<3	5.58	1	320	4725	
54									15	30	45	1				<3	3.11	<1	410	4700	
55									20	45	70	1				<3	5.31	<1	330	4675	
56									15	45	60	1				<3	4.24	5	600	4650	
57									15	55	80	1				<3	5.23	2	390	4625	
58									15	55	80	2				<3	6.60	4	440	4600	
59									10	50	65	1				<3	5.25	3	350	4575	
60									10	55	65	1				<3	4.63	3	490	4550	
61									10	65	70	2				<3	4.69	2	500	4525	
62									5	45	50	1				<3	3.53	<1	490	4500	
63									10	60	65	2				<3	4.18	<1	500	4475	
64									10	40	105	1				<3	3.50	<1	610	4450	
65									10	90	115	1				<3	3.59	<1	720	4425	

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\*



050

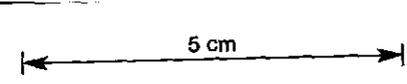
048061

C.P. EXPLORATION . GEOCHEMICAL SAMPLING LEDGER

Tenement name EL 7/73 Sheffield No. 114/366 - 82 Sample numbers Line 7600 E Collected by PA Tamby Sheet no. 061  
 Area / Prospect Stonebridge Ba Grid Soil Samples. Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Analysed by ALS DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au	Fe	As	Ba			
		o/c sample type ***																			
		s sample type ****																			
114/366								20	65	70	1			<3	4.54	2	280	4400			
67								15	95	125	2			15	5.77	2	440	4375			
68								10	75	95	2			<3	5.04	2	400	4350			
69								10	85	120	2			<3	4.46	<1	460	4325			
70								10	90	75	1			<3	4.29	1	650	4300			
71								40	1400	340	1			<3	5.65	5	470	4275			
72								15	210	75	2			<3	7.15	<1	250	4250			
73								10	170	190	1			<3	6.55	1	730	4225			
74								10	85	80	1			<3	5.73	<1	1250	4200			
75								5	50	70	1			<3	5.97	<1	510	4175			
76								10	45	145	1			<3	4.86	1	580	4150			
77								15	40	90	1			<3	5.66	1	660	4125			
78								15	55	65	1			<3	5.64	3	740	4100			
79								10	40	45	1			<3	4.80	1	300	4075			
80								10	50	80	1			<3	4.50	2	560	4050			
81								20	70	110	1			<3	6.83	3	660	4025			
82								80	75	80	<1			<3	3.12	7	520	4000			

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type s = sugar hole or pit depth m A, B or C horizon



061  
048062

C.R EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

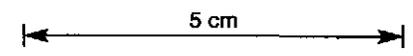
Tenement name EL 7/73 Sheffield No. 1141383-405 Sample numbers 1141383-405 Collected by P.A. Temby Sheet no.           
 Area / Prospect Stonebridge Box Grid Line 7500 E Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Soil Samples Analysed by ALS DPO no. 31920  
 A 02143

062

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations		
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba					
		o/c sample type ***																					
		s sample type ****																					
1141383								10	25	30	<1							<3	4.33	<1	670	5000	
84								25	40	70	<1							<3	5.65	2	900	4975	
85								20	25	55	<1							<3	5.05	2	810	4950	
86								15	25	35	<1							<3	4.07	4	540	4925	
87								25	30	35	<1							<3	4.00	12	510	4900	
88								25	55	115	<1							<3	1.92	12	660	4875	
89								30	30	30	<1							<3	5.24	6	610	4850	
90								10	25	25	<1							<3	3.51	2	350	4825	
91								15	30	40	<1							<3	4.77	2	550	4800	
92								10	30	35	<1							<3	3.84	3	540	4775	
93								15	30	50	<1							<3	4.02	2	450	4750	
94								20	30	45	<1							<3	4.02	3	330	4725	
95								25	35	55	<1							<3	7.26	1	200	4700	
96								15	40	35	<1							<3	3.73	5	370	4675	
97								25	70	70	<1							<3	5.32	4	350	4650	
98								15	50	45	<1							<3	3.63	2	270	4625	
99								15	25	35	<1							<3	5.07	4	460	4600	
400								15	45	35	<1							<3	4.17	5	290	4575	
01								15	35	40	<1							<3	3.60	4	370	4550	
02								15	45	30	<1							<3	3.80	3	350	4525	
03								10	35	35	<1							<3	3.22	3	330	4500	
04								10	45	30	<1							<3	2.96	4	290	4475	
05								35	60	110	<1							<3	5.48	5	500	4450	

048063

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\*



C.P. EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

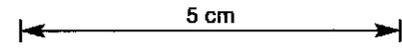
Tenement name EL 7/73 Sheffield No. .... Sample numbers 1141406-23 Collected by P.A. Temby Sheet no. ....  
 Area / Prospect Stonebridge Ba Grid Line 7500 E Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Soil Samples Analysed by ALS DPO no. 31920  
 A 02143

063

048064

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %								Grid ref	Geological Observations		
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %			As	Ba
		o/c sample type ***																		
		s sample type ****																		
1141406								20	55	70	<1			<3	3.54	4	420	4425		
07								20	50	85	<1			<3	3.77	3	450	4600		
08								20	55	100	<1			<3	4.01	4	420	4375		
09								15	50	110	<1			<3	4.70	3	560	4350		
10								15	230	210	<1			<3	4.83	3	480	4325		
11								10	150	175	<1			<3	3.89	6	610	4300		
12								10	165	80	<1			<3	4.39	16	360	4275		
13								15	105	120	1			<3	6.57	<1	380	4250		
14								35	45	50	<1			<3	3.86	6	480	4225		
15								25	45	60	<1			<3	4.26	5	440	4200		
16								40	55	50	<1			<3	4.02	3	340	4175		
17								35	115	105	<1			<3	6.37	10	400	4150		
18								30	50	160	1			<3	5.50	3	510	4125		
19								105	30	55	<1			<3	4.56	3	600	4100		
20								70	55	45	<1			<3	4.55	5	540	4075		
21								15	30	30	<1			<3	3.37	2	530	4050		
22								25	45	55	<1			<3	4.04	3	700	4025		
23								20	45	55	<1			<3	3.87	3	580	4000		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

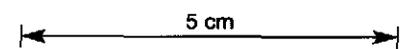


C.P EXPLORATION . GEOCHEMICAL SAMPLING LEDGER

Tenement name FL 7/73 Sheffield No. 114424 - 64 Sample numbers 114424 - 64 Collected by P.A. Temby Sheet no. 2/1/84  
 Area / Prospect Stonebridge Bn Grid Line 7400 E Date 2/1/84  
 Map / Photo reference Sheffield 1:25000 Soil Samples Analysed by ALS DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %							Grid ref N	Geological Observations			
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb			Fe %	As	Ba
		o/c sample type ***																		
		s sample type ****																		
114/424								15	115	55	<1			<3	3.02	6	470	5000		
25								10	25	25	<1			<3	2.82	4	680	4975		
26								10	20	25	<1			<3	1.82	2	520	4950		
27								5	15	20	<1			<3	1.27	2	330	4925		
28								5	25	25	<1			<3	2.29	38	640	4900		
29								10	50	65	<1			<3	2.97	8	490	4875		
30								25	65	115	<1			<3	4.64	12	710	4850		
31								25	70	125	<1			<3	3.88	12	620	4825		
32								20	35	40	<1			<3	4.20	8	500	4800		
33								15	30	45	<1			<3	4.51	3	590	4775		
34								20	25	45	<1			<3	4.38	3	490	4750		
35								20	30	45	<1			<3	4.61	2	290	4725		
36								20	50	60	<1			<3	3.39	2	340	4700		
37								25	65	75	<1			<3	3.93	3	350	4675		
38								20	65	60	<1			<3	2.45	<1	350	4650		
39								25	50	50	<1			<3	1.65	1	360	4625		
40								35	85	65	<1			<3	4.47	5	390	4600		
41								25	60	65	<1			<3	5.28	2	200	4575		
42								20	45	40	<1			<3	5.40	<1	180	4550		
43								35	45	40	<1			<3	5.95	2	430	4525		
44								10	100	60	<1			<3	7.09	<1	60	4500		
45								10	60	95	<1			<3	4.88	4	440	4475		
46								15	50	65	<1			<3	4.07	1	400	4450		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A B or C horizon



064

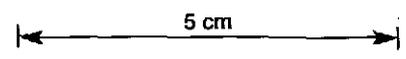
02060

C.P EXPLORATION . GEOCHEMICAL SAMPLI LEDGER

Tenement name EL 7/73 Sheffield No. 1141447-64 Sample numbers Line 7400 E Collected by P.A. Terry Sheet no. 2/11/84  
 Area / Prospect Stonebridge Ba Grid Soil Samples Analysed by A.L.S. Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 A 02143 DPO no. 31920

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba			
		o/c sample type ***																			
		s sample type ****																			
1141447								25	155	30	<1				<3	2.76	5	490	4425		
48								20	45	30	<1				<3	1.89	1	310	4400		
49								30	40	30	<1				<3	3.91	2	480	4375		
50								50	45	50	<1				<3	2.75	1	520	4350		
51								30	35	75	<1				<3	5.67	2	370	4325		
52								15	30	55	<1				<3	2.26	<1	610	4300		
53								10	45	35	<1				<3	1.62	<1	340	4275		
54								5	35	5	<1				<3	1.30	2	70	4250		
55								5	30	5	<1				<3	1.03	<1	80	4225		
56								2	5	<2	<1				<3	0.14	<1	20	4200		
57								2	<5	<2	<1				<3	0.16	<1	<10	4175		
58								2	<5	<2	<1				<3	0.09	<1	10	4150		
59								30	145	20	<1				<3	1.15	<1	290	4125		
60								15	75	15	<1				<3	0.89	<1	310	4100		
61								30	65	70	<1				<3	3.02	2	750	4075		
62								65	55	175	<1				<3	5.56	10	810	4050		
63								50	60	210	<1				<3	6.44	5	1250	4025		
64								75	150	80	<1				<3	3.96	5	580	4000		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



065

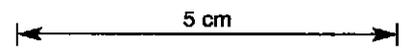
048066

C.P. EXPLORATION GEOCHEMICAL SAMPLE LEDGER

Tenement name EL 7/73 Sheffield No. 114/466 - 88 Sample numbers 114/466 - 88 Collected by P.A. Tenby Sheet no. 2/11/84  
 Area / Prospect Stonebridge Ba Grid Line 7300 E Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Soil Samples Analysed by ALS DPO no. 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		ss *	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Au ppb	Fe %	As	Ba		
		oc	o/c sample type ***																		
		f	s sample type ****																		
114/466	C	H						30	55	50	<1				<3	5.26	7	420	5000		
67	B-C							25	55	45	<1				<3	3.59	8	660	4975		
68	C							40	40	40	<1				<3	3.75	8	520	4950		
69	C							20	35	35	<1				<3	3.09	4	450	4925		
70	B-C							10	25	10	<1				<3	1.22	3	440	4900		
71	C							15	20	20	<1				<3	1.62	5	360	4875		
72	C							20	30	30	<1				<3	2.41	4	420	4850		
73	C							30	45	45	<1			15	4.06	3	330	4825			
74	C							35	60	60	<1				<3	3.88	4	370	4800		
75	B-C							30	30	40	<1				<3	5.53	3	310	4750		
76	B-C							45	25	50	<1				<3	5.85	2	350	4725		
77	B-C							70	30	130	<1				<3	5.96	4	330	4700		
78	B-C							55	30	80	<1				<3	6.26	2	260	4675		
79	C							55	45	95	<1				<3	5.87	3	440	4650		
80	C							45	45	70	<1				<3	5.48	1	320	4625		
81	B-C							35	35	65	<1				<3	4.16	1	650	4600		
82	B							25	30	90	<1				<3	4.26	3	610	4575		
83	B							35	40	65	<1				<3	4.76	1	700	4550		
84	B-C							35	40	80	<1				<3	4.41	2	660	4525		
85	B-C							55	45	90	<1				<3	4.68	2	640	4500		
86	B-C							40	65	60	<1				<3	4.07	<1	720	4475		
87	*							20	45	90	<1				<3	2.25	2	530	4450	Alluvium.	
88	B							15	45	35	<1				<3	2.65	<1	380	4425		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

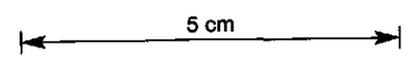


066  
048067

Tenement name EL 7/73 Sheffield No. 1141489-500, 918-22 Sample numbers 1141489-500, 918-22 Collected by PA Temby Sheet no.           
 Area / Prospect Stonebridge Ba Grid Line 7300 E Date 2/11/84  
 Map / Photo reference Sheffield 1:25000 Soil Samples Analysed by ALS DPO no 31920  
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		fi	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au	Fe	As	Ba			
		o/c sample type ***							ppb	%											
		s sample type ****																			
1141489	B-C							20	30	35	<1			<3	3.07	<1	340	4400			
90	B-C							15	35	20	<1			<3	2.87	<1	300	4375			
91	B							25	50	30	<1			<3	3.58	<1	310	4350			
92	B							20	35	35	<1		10	4.12	<1	170	4325				
93	C							45	40	40	<1			<3	4.51	<1	620	4300			
94	C							15	20	50	<1			<3	4.85	<1	560	4275			
95	B							40	60	35	<1			<3	6.32	3	470	4250			
96	C							95	80	40	<1			<3	7.37	5	780	4225			
97	C							30	35	25	<1			<3	4.26	<1	510	4200			
98	C							50	40	60	<1			<3	5.89	3	580	4175			
99	C							30	60	50	1			<3	4.62	3	430	4150			
1141500	C							25	50	80	<1			<3	5.20	6	1100	4125			
918	B							65	115	180	1			<3	6.59	4	680	4100			
19	B							105	200	155	1			<3	6.45	3	490	4075			
20	C							95	180	270	1			<3	6.28	4	900	4050			
21	C							90	70	185	1			<3	5.94	6	780	4025			
22	B							65	190	155	1			<3	3.90	6	510	4000			

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fi = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A B or C horizon



007

048068

C.R EXPLORATION GEOCHEMICAL SAMPLING LEDGER

Tenement name EL 7/73 Sheffield  
 Area / Prospect Stonebridge Ca Grid.  
 Map / Photo reference Sheffield 1:25,000  
 A 02143

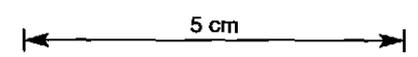
No. Sample numbers 1197539-41

Collected by PA Tenby  
 Analysed by ALS

Sheet no. ....  
 Date 2/11/89  
 DPO no. 31919

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Au	Fe	Ba			
		o/c sample type ***													ppb	%				
		s sample type ****																		
1197539	CS		2.0					20	45	90	1	10		10	386	370	4690N 7590E	No o/c g 60% S30% S17% Cl- Org 3% Float feldspath. volcsst, s/st, g/s vein		
1197540	SS		2.0					20	60	70	1	10		23	342	420	708N 7430E	No o/c g 70% S25% S14% Cl- Org 1% Float. Ore 27 s/st, sst 2 volc component variable, g/s vein.		
1197541	SS		2.0														as above	not analysed. bulk sample.		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



068

048003

PROJECT  
TENEMENT SHEFFIELD EL7/73

GEOCHEMICAL SAMPLING LEDGER

DATES: 15 August 84

AREA / PROSPECT STONEBRIDGE BARYTE

GEOLOGIST IMC

SAMPLE TYPE ROCK

PAGE NO. 1

SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	Mn	Fe%	As	Ba								
988801	442550E 6411850N	26%	30	260											30343	CuSO <sub>4</sub> Fertilizer	
802	-	95	10	50	1	550	3.64	1	680						-	Mid grey oz-ss tuff + ? baryte	
803		75	10	35	<1	470	3.25	1	640						-	Dark grey aphanitic andesite Massive, unaltered	
804		85	20	35	1	670	3.18	<1	970						-	Dark grey aphanitic andesite plus carbonate veining and alteration	
805		80	10	15	<1	70	2.81	<1	660						-	Dark grey banded shale with buff lam in turbid mass	
806		30	5	65	<1	830	3.51	8	260						-	Mid to dark grey shale with ? laminae (or parallel shales) veins of calc green min?	
807		45	10	25	<1	180	2.13	2	600						-	Weathered ferruginous schistose chloritic? or siliceous tuff (clitic - with shale fragments)	
808		25	20	55	<1	720	3.53	<1	490						-	Mid grey massive mudstone ? slightly cherty.	
988809		15	20	15	<1	860	2.75	3	470						-	Coarse clastic tuff with shale fragments to 1cm. Slightly foliated	

069

048070



APPENDIX 4

STREAM SEDIMENT SAMPLING RESULTS

Tenement name EL 7/73 Sheffield C.R.A. EXPLORATION GEOCHEMICAL SAMPLE DGER No. 1197549-1197559 Collected by Peter Temby Sheet no. 1 of 1  
 Area / Prospect Regional SS Date 21/2/85  
 Map / Photo reference Gog 1:25000 - 80 # Stream Sediment Analysed by Peter Temby DPO no.   
 A 02143

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	As	Fe (%)	Mn	Ba	Au (ppm)	Au (ppt)			
		o/c sample type ***																			
		s sample type ****																			
1197549			1.5					31	18	54	<1	2	3.20	350	430	<0.005		435450 5408200	Flowing 1.5m, weak incision low grad, alluv banks, org stain of feld porph. (int.?). chloritic. G 40% S 70% sl. 8% cl 1% O 1%.		
550	-8#																200				
1197551								8	6	14	<1	<2	1.17	140	300	<0.005		452200 5407700	Flowing 2m weak incision mod grad, alluv banks, no stain, G 80% S 16% Sl 4% O+Cl+tr.		
552	-8#																300				
1197553								10	5	12	<1	2	1.40	88	65	0.01		450950 5406100	Flowing 2m, deep incision, high grad, no stain b/c banks, precipitation, G 70% S 25% Sl 4% Cl 1% O+tr.		
554	-8#																400				
1197555								23	23	60	<1	2	1.54	385	250	0.01		448555 5407000	Flowing 1.5m, weak incision, mod grad, alluv banks, minor org stain G 40% S 55% Sl 4% Cl+O+tr.		
556	-8#																200				
1197557								31	23	210	<1	4	2.27	1040	540	<0.005		468500 5407000	Flowing 1.5m, weak incision mod grad, alluv banks, no o/c Fe > Mn stain G 50% S 45% Sl 4% Cl+O=1%.		
558	-8#																500				
1197559								35	43	195	<1	9	2.13	6250	2600	0.14		448200 5404760	Flowing 1.5m mod incision high grad, alluv banks Euc forest Fe and Org stain G 80% S 16% S 13% Cl+O=1%. Float gts, gts schist, Org, Om. possible contain high terraces of Mersy R.		
560	-8#																100				

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m<sup>3</sup>/sec wi = width m al = alluvial co = colluvial ca = catchment km<sup>2</sup>  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

5 cm

072

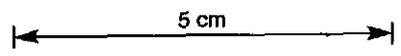
045013

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE ' DGER

Tenement name EL 7/73 Sheffield No. 1197550 - Sample numbers 1197550 - Collected by Peter Tomby Sheet no. 1 of  
 Area / Prospect Regional SS Date 21/2/85  
 Map / Photo reference Geog. 1:25000 - 8# 5 kg CN leach. Analysed by \_\_\_\_\_ DPO no. \_\_\_\_\_  
 A 02143

Sample No.	Type ss* oc f s	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations		
		fl	wi	al	co	ca	pH		Au (ppt)													
		o/c sample type ***																				
		s sample type ****																				
1197550								200												Corresponds to ss 1197549.		
1197552								300												" " " 1197551		
1197554								400												" " " 1197553		
1197556								200												" " " 1197555		
1197558								500												" " " 1197557		
1197560								100												" " " 1197559		
1197562								200												" " " 1197561		
97564								300												" " " 1197563		
1197566								250												" " " 1197565		
1197568								350												" " " 1197567		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

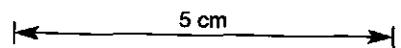


048074

Tenement name EL 7/73 Sheffield C.R.A. 'PLORATION . GEOCHEMICAL SAMPLE I DGER  
 Area / Prospect Regional ss No. Sample numbers 1197561 - Collected by Peter Temby, Sheet no. 2/9  
 Map / Photo reference Gog 1:25000 - 80# Stream Sediment Analysed by ..... Date 8/3/85  
 A 02143 DPO no. ....

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations				
		ss *	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	As	Fe	Mn	Ba	Au			Au			
		oc	o/c sample type ***						(%)	(ppm)	(ppt)													
		f	s sample type ****																					
1197561								14	2	12	<1	<2	0.90	48	65	0.01		422700E 5806780N	2m flowing, mod grad, alluv banks, no stain, Euc forest					
562	-8#																200		* Area of sink holes. Flood, qtz, qtzite, qtz schist, Conglom, tr. dolerite. Orc, Om, tr intermed. fld bearing intermediate volcanic. G 70% S 25% S1 4% O + Cl 1%.					
1197563								20	9	155	<1	4	0.94	455	300	0.01		466350E 5408780N	Flowing 0.5m swampy, mod grad. Euc forest.					
564	-8#																300		Flood qtz sand-silt. S 20% S1 60% O 20%.					
1197565								29	29	245	<1	<2	1.81	950	480	0.02		467950E 5806050N	Flowing 1.5m, mod grad, alluv banks, Euc forest					
566	-8#																250		Flood diff ss tr sh, qtz and fld bearing (some cherty) fg volcs. G 60% S 30% S1 9% Cl + O. 1%.					
1197567								29	10	31	<1	4	1.23	375	160	0.02			Flowing 5m, high grad medium, Euc forest, no stain					
568	-8#																350		Flood Orc, Om, Jukes type conglom, chloritized sandy epiclastics, qtz, fld porph (lava?). G 90% S 9% S1 1% O trace.					

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon



074

048075



PROJECT SHEFFIELD MINE  
 TENEMENT SHEFFIELD #1713  
 AREA / PROSPECT REGIONAL TRENCH

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST J.P. [unclear] SAMPLE TYPE STRONG SEDIMENTS

DATES: MARCH 1985  
 LAB. AMDEE LAB  
 PAGE NO. 1

SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	As	Fe (%)	Mn	Ba	Au (ppm)	Au (ppt)						
990609	446500E 5403250N	12	11	56	<1	2	1.43	235	290	10000				M/Fe log	-80# s/s 6m wide Low Flow Washed material Colluvial banks bedding - on float - Fe bedding (float) coarse sandy matrix - clastic (granite) CN Leach - 4# s/s		
990610	446500E 5403250N													150			
990611	444500E 5403200N	14	26	48	<1	2	2.25	405	310	10000				M/Fe log	-80# s/s 6m wide Strong Flow Washed material Alluvial beds R.F.H. Verm. sand float - coarse bedded claystone - some green Fe bed - Agrie - lower light volcanic and some volcanic (2000) CN Leach - 4# s/s	990609	
990612	444500E 5403200N													550			
990613	443500E 5403350N	22	21	42	<1	<2	1.53	135	250	10000				M/Fe log	-80# s/s 4m wide Med - strong Flow Low in water Alluvial beds Red and Gray float. CN Leach - 4# Ag above	990613	
990614	443500E 5403350N													300			
990615	440950E 5412460N	48	22	60	<1	<2	3.43	1040	310	10000				Fe Agrie	-80# s/s 1/2m wide Med Flow Fairly incised. Moderate valley Colluvial banks. Sand - silt rich sample. Float: Red and Conglomerate. CN Leach - 4#	990615	
990616	440950E 5412460N													100			
METHOD	DET.LPRT																

076

048077

PROJECT SHEFFIELD MOINA  
 TENEMENT SHEFFIELD EL7/73  
 AREA / PROSPECT REGIONAL STREAM SAMPLING

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST IMClements SAMPLE TYPE S / SEDIMENTS

DATES : MARCH 1985  
 LAB. AMDEL  
 PAGE NO. 3

SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	As	F(%)	Mn	Ba	Au (ppm)	Au (ppt)	STAIN	CONTAM				
990617	432700E 5408290N	18	46	195	<1	4	4.17	810	450	60000			Mn	Plng	-80# s/s 1/2m Mod flow. Deeply incised, steep slope. Colluvial banks. Fluvial - quartz, Rhyolite. Qz - Rd - ps - chyt - detritus. Fg cherty sediment.		
990618	432700E 5408290N														100	CN Leach - 4# s/s	990617
990619	432730E 5408150N	70	84	175	<1	4	3.9	1540	220	60000			Mn/Fe	Ag	-80# s/s. 4m wide Mod flow. Partly incised gentle slope. Coll/all banks. Fluvial - wide variety of Fg. Lvs - coarse gran. or v. clastics including sh. like agglomerate.		
990620	432730E 5408150N														300	CN Leach - 4# s/s	990619
990621	434100E 540830N	6	16	22	<1	2	0.99	160	80	60000				Ly	-80# s/s in Dry Waddy incised, colluvial banks. Mod flow. Very sandy gravel rich. Fluvial. Rhyolite.		
990622	434100E 540830N														100	CN Leach - 4# s/s	990621
990623	434880E 5408490N	62	18	86	<1	2	3.55	470	220	60000			Fe	Rhy	-80# s/s 4m wide. Deeply incised, colluvial banks. Fluvial. Rhyolite, agglomerate, qz. ls - fine gr. v. clastics.		
990624	434880E 5408490N														300	CN Leach - 4# s/s	990623

METHOD  
DET.L.M.7

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PROJECT SHEFFIELD MOINA  
 TENEMENT SHEFFIELD EL 7/73  
 AREA / PROSPECT REGIONAL SIZED SURVEY

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST J.M. CLEMENTSON SAMPLE TYPE STREAM SEDIMENTS

DATES: MARCH 1985  
 LAB. AMDEL  
 PAGE NO. 4

SAMPLE NUMBER	GRID REF.	ANALYSES														DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	As	Ag	Fe (%)	Mn	Ba	(ppm) Au	(ppt) Al								Strain
990625	435180E 5409210N	9	16	62	<1	3	2.13	830	400	0.005						Fe	Org	-80# s/s. 1/2 m wide, low flow Narrow, rich, incised but gentle slope. Flood (little) - Retard Cong	990625
990626	435180E 5409210N									300								CN Leach - 4# s/s	990625
990627	435175E 5409000N	15	14	30	<1	<2	1.19	390	190	0.01					Fe/Mn	Rock	80# s/s 1/2 m wide Low Flow. Incised in gentle valley low clay Flood: polyz. low. Retard Cong Minor F.g. to coarse poorly sorted vicinities (if back.)	990627	
990628	435175E 5409000N									100								CN Leach - 4#	990627
990629	437040E 5412000N	17	52	155	<1	6	4.00	2420	450	0.01					Fe/Mn		-80# s/s 1/2 m wide Dry. Gentle valley incised narrow dry with (dry stream) Flood. Retard Cong. various coarse vicinities v.g. 2, 2.10.	990629	
990630	437040E 5412000N									400								CN Leach s/s	990629
990631	437540E 5412000N	11	25	36	<1	7	3.65	305	130	0.005								-80# s/s 1/2 m. Dry. Poorly incised gentle valley. Coll. back to Retard Cong Flood	990631
990632	437540E 5412000N									150								CN Leach - 4# s/s	990631

METHOD  
 DET. LAB.

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PROJECT SHEFFIELD MOINA  
 TENEMENT SHEFFIELD FL773  
 AREA / PROSPECT REGIONAL SIZED

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST I.M. Clementson SAMPLE TYPE STREAM SEDIMENT

DATES: MARCH 1985  
 LAB. ACIDEL  
 PAGE NO. 5

SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ag	As	F(%)	Mn	Ba	(ppm) Au	(ppt) Ag	STRAIN	REMARKS						
990633	436600E 5411520N	6	10	12	<1	<2	1.09	58	30	<0.005								-80# s/s. 1/2m wide Dry No float except Retard Cong Strong calcareous cont. Mat incision. V. clay rich Collbanks	
990634	436600E 541520N																	CN Leach - 4# s/s	990633
990635	437400E 5412560N	39	40	140	<1	3	10.4	1760	450	<0.005								-80# s/s. 1m low flow Mat in acid medium slope V. sand-silt rich. Float: a matrix of very mafic volcanics - volc. clastics, many heavy chlorite. Also v. coarse agglomerate. Collbanks.	
990636	437140E 5412560N																	CN leach - 4# s/s	990635
990637	438525E 5412860N	15	43	50	<1	4	2.06	720	95	<0.005								-80# s/s. 1/2m. Dry Silt-clay rich. V. gentle valley. All collbanks Retard Cong float	
990638	438525E 5412860N																	CN Leach - 4# s/s	990637
990639	429475E 5406820N	15	12	18	<1	<2	0.68	80	15	<0.005								-80# s/s. 4m wide Strong flow Steep incl. - steep incision. No float. Gravelly. Clean collbanks - Retard Cong - Moina	
990640	429475E 5406820N																	Pz. to V. Sandy	
METHOD	DET. UNIT																		

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PROJECT SHEFFIELD - MOINA

GEOCHEMICAL SAMPLING LEDGER

DATES: MARCH 1985

TENEMENT SHEFFIELD E 7/73

LAB. AMES/ALS

AREA / PROSPECT REGIONAL STREAM SED. SURVEY

GEOLOGIST S.J.C.

SAMPLE TYPE STREAM SEDIMENT

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SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE		
		Cu	Pb	Zn	Ag	As	Fe (%)	Mn	Ba	(ppm) Au	(ppt) Au							
1153895	447000E 5408600N	8	11	100	<1	<2	1.40	185	340	60000							Mod fl.; mod gradient; 0.5m; alluvial bank; mod incised; 40% gravel, 40% sand; 15% silt; 5% clay + organics; open eucalypt forest Quartz porphyritic dyke; matrix rich; Fe stained oxidized surface; qz gravel; shale CN leach sample at same site	1153895
1153896																		
1153897	444600E 5408700N	7	23	130	<1	2	1.33	960	380	0.01				Fresh		Mod. fl.; mod gradient; 2.0m; alluvial bank; mod incised; 60% gravel, 30% sand, 8% silt, 2% organic + clay; pine forest. Altered + bleached qz porphyry; medium grained subbedrock - embedded qz phenocrysts in aphanitic grey matrix CN leach sample	1153897	
1153898																		
1153899	443700E 5408650N	14	17	86	<1	5	5.84	1120	360	0.005				Fresh		Slab; mod flow; mod gradient; alluvial bank; mod incised; 50% gravel, 30% sand, 15% silt; 5% clay + organics; pine forest. Fine - mod grained intermediate epikentics; feldspar porphyry with dark green matrix. CN leach sample	1153899	
1153900																		

METHOD  
DET.LPWT

081

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PROJECT SHEFFIELD - MOUNT  
 TENEMENT SHEFFIELD EL 7/73  
 AREA / PROSPECT REGIONAL STREAM SED. SURVEY

GEOCHEMICAL SAMPLING LEDGER

DATES : MARCH 1985  
 LAB. AMDEL / ALS  
 PAGE NO. 2/

GEOLOGIST S.J.C SAMPLE TYPE STREAM SEDIMENT

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	As	Fe	Mn	Ba	(ppm) Au	(ppt) Au	Staining				Carbon
1153901	441800E 5412700N	23	35	68	<1	3	358	960	400	1000				Agpic	Mod fl; mod gradient; 3.0m; alluvial bank; mod incised; 40% gravel, 30% sand, 20% silt, 5% clay, 5% organics; eucalypt forest + agricultural land. Common coarse bedded conglomerate; lesser altered mg. intermediate-basic rock; dark green rock with mg feldspar phenocrysts; minor mg. pyrite along joint + fracture planes; magnetic; possibly an altered andesite	
1153902															CN leach sample	1153901
1153903	431150E 540780N	14	165	190	<1	18	341	5800	410	6000					Slw. fl; mod gradient; 2m; alluvial bank; mod. incised; 60% gravel, 30% sand, 8% silt, 2% clay + organics; eucalypt forest. Eg. porphyritic basic-inter. rock; mg. subhedral feldspar phenocrysts + minor ferromag. phenocrysts; magnetic; possible andesite	
1153904															CN leach sample	1153903

METHOD  
 DET. L.P.W.T

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PROJECT SHEFFIELD-MOINA

GEOCHEMICAL SAMPLING LEDGER

DATES : MARCH 1985

TENEMENT SHEFFIELD EL 7/73

LAB. AMDEL/ALS

AREA / PROSPECT REGIONAL STREAM SED SURVEY

GEOLOGIST SJC

SAMPLE TYPE STREAM SEDIMENT

PAGE NO. 4

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	As	Fe(%)	Mn	Ba	(ppm) Au	(ppt) Au					
1153910													100		Mg, pale green epichlastic (pebbles from Richard?) CN beach sample	1153909
1153911	434400E 5409600N	36	16	160	<1	2	6.26	1620	470	50000				Agic	Mod fl; mod gradient; 1 m; weakly incised; colluvial banks; 50% gravel, 20% sand, 20% silt, 10% clay + organics; agricultural & eucalypt forest (recent plough) Weathered, brown, mg. foliated epichlastic + lower shale + minor qz	
1153912													100		CN beach sample	1153911
1153913	434600E 5409900N	24	29	125	<1	3	3.62	2800	360	10000					Mod fl; mod gradient; 1.5 m; weakly incised; colluvial banks; 50% gravel, 25% sand, 10% silt, 5% clay + organics; eucalypt forest. Altered, foliated, mg. pale green epichlastic. Some qz porphyritic rx; medium grained	
1153914													100		CN beach sample	1153913
1153915	435200E 5410900N	30	19	190	<1	<2	5.78	1560	360	10000				Agic	Slow-mod flow; mod gradient; 1 m; mod-well incised; colluvial banks 40% gravel, 30% sand, 20% silt, 5% clay, 5% organics; agricultural & eucalypt forest.	

METHOD  
DET.LIMIT

084

048082

PROJECT SHEFFIELD-MOINA

GEOCHEMICAL SAMPLING LEDGER

DATES : MARCH 1985

TENEMENT SHEFFIELD EL 7/73

LAB. AMDEL/ALS

AREA / PROSPECT REGIONAL STREAM SED SURVEY

GEOLOGIST SJC

SAMPLE TYPE STREAM SEDIMENT

PAGE NO. 5

SAMPLE NUMBER	GRID REF.	ANALYSES														DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ag	As	Fe(%)	Mn	Ba	(ppm) Au	(ppt) Au										
1153916																		100	Former industrial site At alluvial stages.	Eg - mg sst; sericitic alter., qt veining; pink-orange colour. Mg. epiclastic; foliated mg feldspar clasts. Dark green vesicular basalt CN beach sample	1153915
1153917	435500E 541400N	29	24	220	<1	2	7.14	1720	480	0.01								Agic	Mod fl; mod gradient; 1.5m; weakly incised; alluvial banks; 40% gravel, 40% sand, 15% silt, 5% clay + organics; agricultural + rucalyp forest Dark green mg. porphyritic andesite; mg feldspar phenocrysts Mg. epiclastic. Minor fg. sandstone CN beach sample	1153917	
1153918																	400				
1153919	435850E 5411650N	29	25	140	<1	<2	9.82	1520	430	60.005								Agic	Mod fl; mod gradient; 1.5m; mod incised; alluvial banks; 40% gravel, 30% sand, 20% silt 10% clay + organics; agricultural + rucalyp forest Altered basic rock - andesite(?), porphyritic feldspar xenocrysts (mg) in dark green matrix; trace disseminated fg. pyrite. Possible vesicular basalt CN beach sample	1153919	
1153920																	100				

METHOD  
DETAILS

052

048086



PROJECT SHEFFIELD - MOINA  
 TENEMENT SHEFFIELD EL 7/73  
 AREA / PROSPECT REGIONAL STREAM SED. SURVEY

GEOCHEMICAL SAMPLING LEDGER  
 GEOLOGIST SJC SAMPLE TYPE STREAM SEDIMENT

DATES: MARCH 1985  
 LAB. ALSOE / ALS  
 PAGE NO. 7

SAMPLE NUMBER	GRID REF.	ANALYSES												DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ag	As	Fe (%)	Mn	Ba	(ppm) Au	(ppt) Au								
1153927	439100E 541260N	22	32	130	<1	6	4.52	2300	340	40.005							Strong flow; mod gradient; 0.5m exposed; colluvial banks; 10% gravel, 30% sand, 40% silt, 20% clay + organics; agricultural Retard conglomerate float, dark brown soil (basaltic?) CN beach sample	1153927	
1153928																		250	
1153929	443700E 540800N	18	27	43	<1	6	1.78	165	200	40.005							Strong flow; mod gradient; 7m; mod incised; colluvial banks; 50% gravel, 30% sand, 18% silt, 2% clay + organics; pine + man eucalypt forest Common Retard conglom float minor basic epiclastic; mg. feldspar fragments in dark green matrix CN beach sample	1153929	
1153930																		200	
1153931	428200E 540660N	15	84	60	<1	48	1.83	550	60	0.04							Mod fl.; steep gradient; 4m; well incised; colluvial rock bank 30% gravel, 40% sand, 20% silt, 10% clay + organics; eucalypt forest Hard, siliceous, mg. quartzite; fine disseminated pyrite; % on bank qz veins; "senescent alter"; CN beach sample	1153931	
1153932																		5250	

METHOD  
 DET. LAB.

037

048088



PROJECT SHEFFIELD MOINA  
 TENEMENT SHEFFIELD EL 7/73  
 AREA / PROSPECT \_\_\_\_\_

GEOCHEMICAL SAMPLING LEDGER

DATES: 2/73  
 LAB. AMDEL/ALS  
 PAGE NO. 1

GEOLOGIST JARITAN VON STROKING SAMPLE TYPE STREAM SEDIMENT

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ag	As	Fe	Mn	Ba	(ppm) Au	(ppt)							
990651	436270E 5411300N	10	10	8	<1	3	126	16	20	50.005							Very poor flow - seepage colluvial bank, sharply incised 1 metre, 50cm to 1 metre wide, + tree, no contamination, no staining. 50% Gravel 30% Sand 15% Silt 5% organic + clay float consists of Roland Conglomerate	
990652	"									200							CN leach sample at same site	990651
990653	443670E 5408170N	11	10	30	<1	2	2.16	120	210	50.005							Rapidly flowing creek, weakly incised and 4 metres wide flowing down a low gradient Site in middle of stream bottom Rise forest 50% G 40% Sand 10% Silt. float consists of Roland Cgl 50% Assorted fine grained tuffs and rhyolite.	
990654	"									100							CN leach sample at same site	990653

METHOD  
DET.LIMIT

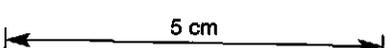
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048090

# CRA EXPLORATION PTY. LTD.

090

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										Geological Observations
	Easting	Northing		Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)	
1197549 550	453450	5408200	-80# -4#	31	18	54	<1	2	350	3.20	430	<0.005 200	Weakly incised; flowing; 1.5m wide; low gradient; alluvial banks; organic staining; 40% gravel, 50% sand, 8% silt, -1% clay. % of feldspar porphyry - weathered, chloritized, possible intrusive; red sst	
1197551 552	452200	5407100	-80# -4#	8	6	14	<1	<2	140	1.17	300	<0.005 300	Weakly incised; flowing; 2.0m wide; moderate gradient; alluvial banks; eucalypt forest; 80% gravel, 16% sand, 4% silt. Float of quartz feldspar porphyry - altered + strongly foliated; red volcanic derived sst; chloritic, mafic rich intermediate volcanics; minor chlorite + feldspathic lithic tuff (andesitic - dacitic composition); quartz porphyry.	
1197553 554	450950	5406100	-80# -4#	10	5	12	<1	2	88	1.40	65	0.010 400	Well incised; flowing; 2.0m wide; high gradient; eucalypt forest; contamination from pine plantation; 70% gravel, 25% sand, 4% silt, 1% clay. Float of pink, pyritic sst; quartz feldspar tuff; feldspar tuff sst; quartz-chlorite fault breccia; % of chloritic quartz bearing lithic feldspar tuff with massive to weak foliation.	
1197555 556	448550	5407000	-80# -4#	23	23	60	<1	2	385	1.54	250	0.010 200	Weakly incised; flowing; 1.5m wide; moderate gradient; alluvial banks; low organic staining; eucalypt forest; 40% gravel, 55% sand, 4% silt, trace clay + organics. Quartz feldspar porphyry; quartz porphyry; interbedded tuffaceous sst + siltstone; Mn staining.	
DETECTION LIMIT														
ANALYTICAL METHOD														

Project : SHEFFIELD - MOINA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/73	DPO's :		Laboratory : ALS AMDIEL
Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY			Collected By : P. JEMBY      Date : 21-2-85

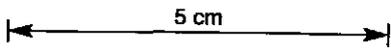
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# CRA EXPLORATION PTY. LTD.

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048092

SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)	
1197557 558	448500	5407000	-80# -4#	31	23	210	<1	4	1040	2.27	540	60.005	500	Weakly incised; flowing; 1.5m wide; alluvial banks; moderate gradient; eucalypt forest; 50% gravel, 45% sand, 4% silt, 1% clay. Tuffaceous quartz feldspar sst; feldspar porphyry; chloritic sandy volcaniclastic.
1197559 560	442800	5404760	-80# -4#	35	43	195	<1	9	6250	2.13	260	0.140	100	Moderately incised; flowing; 1.5m wide; high gradient; alluvial banks; eucalypt forest; 80% gravel, 16% sand, 3% silt, 1% clay + organics. Quartzite + quartz schist float; possible contamination from the Mosey high terrace.
1197561 562	442700	5404740	-80# -4#	14	2	12	<1	<2	48	0.89	65	0.010	200	Moderate gradient; flowing; 2.0m wide; alluvial banks; eucalypt forest; 70% gravel, 25% sand, 4% silt, 1% clay + organics. Float of quartz pebbles, quartzite + quartz schist; Roland conglomerate sst; Moira sst float; matrix rich feldspar bearing volcanic; dolomite boulders.
1197563 564	444350	5404700	-80# -4#	20	9	155	<1	4	455	0.94	300	0.010	300	Moderate gradient; flowing; 0.5m wide in sandy ground; eucalypt forest; 20% sand, 60% silt, 20% clay + organics. No%; quartz sandstone float.
1197565 566	441750	5406080	-80# -4#	29	29	245	<1	<2	950	1.81	480	0.020	250	Moderate gradient; flowing; 1.5m wide; alluvial banks; eucalypt forest; 60% gravel, 30% sand, 19% silt, 1% clay + organics. Tuffaceous sandstone - shale (p + feldspar bearing); some chertified by volcanics.
DETECTION LIMIT														
ANALYTICAL METHOD														

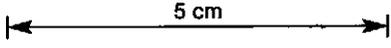
Project : SHEFFIELD - MOINA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/75	DPO's :		Laboratory : ALS AMDEL
Area / Prospect : STREAM SEDIMENT SURVEY			Collected By : P. JERRY      Date :

# CRA EXPLORATION PTY. LTD.

092

048093

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES									Geological Observations	
	Easting	Northing		Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)		Au (ppt)
1197567 568	443120	5406980	-80# -4#	29	10	31	<1	4	375	1.23	160	0.020 350	Moderately incised; high gradient; flowing; 5.0m wide; 90% gravel, 9% sand, 1% silt Rolled conglomerate float; chloritized sandy epiclastic; sub-type conglomerate; quartz feldspar porphyry; matrix rich lava/intrusive	
197569 570	451350	5409050	-80# -4#	52	29	76	<1	17	710	5.68	420	0.010 350	Weakly incised; low gradient; series of pools; agricultural lands; colluvial banks; gravel 10%, 60% sand, 25% silt, trace clay, 5% organics Vein quartz; sandy feldspathic lithic epiclastic	
1197571 572	451200	5408900	-80# -4#	38	45	150	<1	5	1140	4.15	490	0.010 300	Weakly incised; mod to gentle slopes; fast flow; 1.5m wide; podsol ridge; 40% gravel, 25% sand, 25% silt, 10% clay + organics Volcaniclastic float (fine grained matrix + clasts to 1cm of sediment); purple, fine grained "spotted" volcanic or clastic; % (on hill) of purple, mottled f.g. feldspar phytic lens.	
1197573 574	451030	5408100	-80# -4#	35	62	160	<1	4	2620	3.75	580	40.005 300	Moderately incised; moderate flow; 2m wide; colluvial banks; eucalypt forest; 40% gravel, 30% sand, 20% silt, 10% clay + organics Fine + coarse grained tuffaceous sediment (Fe stained); feldspar rich; lower white vein quartz; % of moderately cleaned fine sand sized feldspathic, tuffaceous epiclastic. Collected at line 2E 400N on Beulah grid.	
DETECTION LIMIT														
ANALYTICAL METHOD														

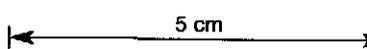
Project : SHEFFIELD - MOINIA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/73	DPO's :		Laboratory : ALS AMOEL
Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY			Collected By : P. TEMAY      Date :

# CRA EXPLORATION PTY. LTD.

093

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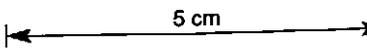
SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations	
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)		
97575 576			-80# -4#	45	17	82	<1	3	980	3.18	260	0.010	200	Weakly incised; slow flow over swampy area ~5m wide; contamination from forestry; 10% sand, 80% silt, 10% clay + organics Weathered intermediate feldspathic rhyolites (fine-mg); siltstone + shale % close to sample site.	
1197577 578	449500	5407600	-80# -4#	25	19	100	<1	2	235	1.94	240	50.005	2800	Weakly incised; flowing; 0.5m wide; site from stream destroyed by forestry; 40% gravel, 40% sand, 15% silt, 5% clay + organics. % (possible) of dark blue-grey micaceous chloritic siltstone; float micaceous siltstone, ferruginous sandstone; shale + chlorite veins	
1197579 580	448600	5409000	-80# -4#	29	10	58	<1	5	345	1.69	250	50.005	2500	Weakly incised; slow flow; 0.5m wide; alluvial bar; eucalypt regrowth Gravel terrace; float siltstone; micaceous siltstone; feldspathic rhyolite (fg-mg); weak-moderately foliated, micaceous quartzite lithic sst.	
1197581 582	446220	5409050	-80# -4#	52	22	70	<1	6	385	1.94	210	50.005	850	Low gradient; dry creek; cut grass; 15% sand, 70% silt, 15% clay + organics Gully sst float; fine-poor site	
1197583 584			-80# -4#	30	5	135	<1	<2	530	6.04	120	50.005	250	Moderate gradient; weakly incised, flowing; 1.5m wide; timber + eucalypt forest; weak Fe stain; 60% gravel, 30% sand, 1% silt, 1% clay Dominant basalt float; lower quartz sand; minor vein quartz + quartz feldspar porphyry; fuchsite (?) or prehnite (?)	
DETECTION LIMIT															
ANALYTICAL METHOD															

Project : SHEFFIELD - MOINIA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/73	DPO's :		Laboratory : ALS ARIEL
Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY			Collected By : P. TEMBY      Date :

# CRA EXPLORATION PTY. LTD.

034

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										Geological Observations
	Easting	Northing		Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)	
231473 474	428600	5410150	-80# -4#	5	45	24	<1	2	70	0.70	160	<0.005	<50	Moderate flow; well incised; 2.0m wide; alluvial bc bs; eucalypt forest; plunge pool site; 45% gravel, 45% sand, 10% silt. Chert (?); grey shale + quartz gravel.
1231475 476	429500	5411000	-80# -4#	42	16	110	<1	<2	1520	8.18	320	<0.005	<50	Slow flow; well incised; 0.5m wide; alluvial bc bs; degraded rainforest; 60% gravel, 35% sand, 5% silt. Quartz; chert; layered + altered (?) siltstone.
1231477 47B	429600	5411200	-80# -4#	24	12	90	<1	<2	860	5.40	410	<0.005	<50	Slow flow; 1.5m wide; eucalypt forest; gravel bar trap site; 70% gravel, 15% sand; 10% silt; 5% organics; probable logging. Chert; siltstone + quartz.
231479 480	429000	5411500	-80# -4#	34	15	125	<1	2	1100	7.04	290	<0.005	<50	Moderate flow; 2.0m wide; alluvial bc bs; eucalypt forest; 70% gravel, 25% sand, 5% silt; boulder trap. Chert; diopside (?); siltstone; dominant basalt; quartz; Mn stain.
231481 482	429250	5411600	-80# -4#	28	29	120	<1	8	930	6.04	350	<0.005	<50	Slow flow; well incised; 1.5m wide; eucalypt forest; alluvial banks; 65% gravel, 25% sand, 10% silt; gravel bar. Chert; diopside (?); siltstone; dominant basalt; quartz; Mn staining.
231483 484	430750	5412200	-80# -4#	17	275	610	1	2	1320	2.68	500	<0.005	100	Well incised; slow flow; 0.5m wide; eucalypt forest; alluvial banks; 55% gravel, 30% sand, 5% silt, 10% organics; gravel bar. Weathered siltstone with Mn staining; red, weathered iron ore.
DETECTION LIMIT														
ANALYTICAL METHOD														

Project : SHEFFIELD - MOINA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/13	DPO's :		Laboratory : ALS AMDEL
Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY			Collected By : A. CRICK I. CONEES
			Date : APRIL 1985

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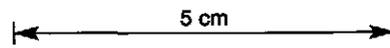
# CRA EXPLORATION PTY. LTD.

035

048036

SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)	
1231485 486	430950	5412250	-80# -4#	28	49	105	<1	7	630	4.93	490	50.005	250	Moderate flow; 1.0m wide; alluvial ba ba; well incised; 60% gravel, 30% sand, 5% silt, 5% organics. Quartz gravel; siltstone; Mn staining.
1231487 488	430700	5413000	-80# -4#	15	13	80	<1	2	340	2.88	350	50.005	<50	Moderate flow; well incised; 2.0m wide; alluvial ba ba; eucalypt forest; 55% gravel, 40% sand, 5% silt; gravel bar + plunge pool. Quartz; brown + green siltstone; basalt.
1231489 490	431400	5413100	-80# -4#	23	18	145	<1	2	780	5.22	470	50.005	<50	Moderate flow; 1.5m wide; alluvial ba ba; eucalypt forest; 35% gravel, 50% sand, 10% silt, 5% organics. Basalt; quartz; green-brown banded siltstones.
1231491 492	432300	5414550	-80# -4#	16	19	120	<1	6	610	4.21	570	50.005	50	Slow flow; 1.0m wide; alluvial ba ba; eucalypt forest; 60% gravel, 30% sand, 5% silt, 5% organics; boulder bar trap site. Green siltstone; quartz with Mn staining; basalt(?)
1231493 494	432000	5414250	-80# -4#	18	34	130	<1	6	730	3.47	490	50.005	50	Slow flow; alluvial ba ba; 0.5m wide; eucalypt forest; moderately incised; 60% gravel, 15% sand, 20% silt, 5% organics; plunge pool. Siltstone; basalt; quartzite; Mn staining.
1231495 496	431500	5414800	-80# -4#	8	4	36	<1	<2	200	1.15	170	50.005	<50	Moderately incised; slow flow; 0.3m wide; eucalypt forest; alluvial ba ba; 40% gravel, 40% sand, 15% silt, 5% organics. Conglomerate; quartzite; green siltstone; basalt.
DETECTION LIMIT														
ANALYTICAL METHOD														

Project : SHEFFIELD - MOINA  
 Tenement : SHEFFIELD EL 7/73  
 Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY

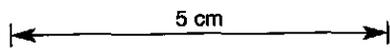
1 : 250 000 Sheet :  
 DPO's :  


AMG Zone :  
 Sheet No. :  
 Laboratory : ALS  
 AMDEL  
 Collected By : A. CAICK  
 J. ROGERS  
 Date : APRIL 1985

# CRA EXPLORATION PTY. LTD.

036

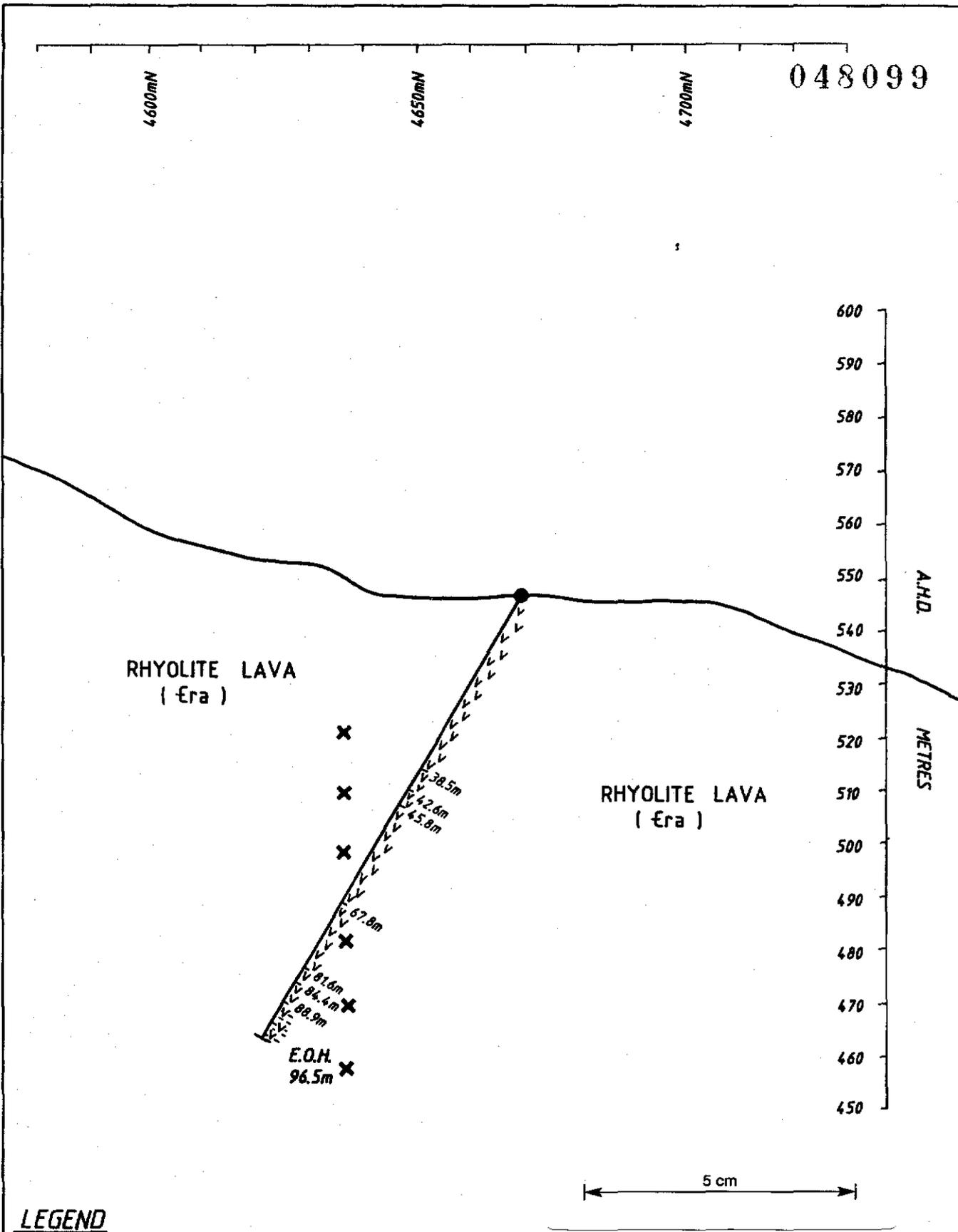
SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations	
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Mn	Fe (%)	Ba	Au (ppm)	Au (ppt)		
231497 498	431100	5414500	-80# -4#	48	21	135	<1	2	1440	6.52	350	<0.005	<50	Moderate flow; well incised; alluvial banks, 3.0m wide; myrtle + dogwood forest; 70% gravel, 25% sand, 5% silt; plunge pool Conglomerate; basalt with quartz veins; quartzite; green siltstone	
1231499 500	431000	5413750	-80# -4#	40	24	140	<1	3	1340	5.50	440	<0.005	50	Moderate flow; well incised; alluvial banks; 1.0m wide; eucalypt forest; 55% gravel, 40% sand, 5% silt; gravel bar Quartz; basalt; green + grey siltstones; mudstones	
1231525 526	431600	5413800	-80# -4#	17	35	110	<1	2	740	3.32	490	<0.005	<50	Moderate flow; 1.0m wide; alluvial banks; eucalypt forest; 60% gravel, 35% sand, 5% silt + organics Banded siltstone; basalt; quartz; red/brown mudstone	
1231517 518	429250	5414600	-80# -4#	49	11	135	<1	5	930	9.02	200	<0.005	<50	Moderate flow; moderately incised; 1m wide; alluvial banks; agricultural land; 65% gravel, 25% sand, 10% silt; plunge pool Basalt-Fe stained; lithic silt; quartz; conglomerate	
DETECTION LIMIT															
ANALYTICAL METHOD															

Project : SHEFFIELD - MOINA	1 : 250 000 Sheet :	AMG Zone :	Sheet No. :
Tenement : SHEFFIELD EL 7/13	DPO's :		
Area / Prospect : REGIONAL STREAM SEDIMENT SURVEY			
		Laboratory : ALS AMDEL	Collected By : A. CRICK T. ROGERS
		Date : APRIL 1985	

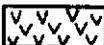
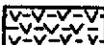
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APPENDIX 5

DD85 GP5 LOGS AND ASSAYS



**LEGEND**

-  Acid Tuffs
-  Tuffaceous Sediment
- x x x** Interpreted location of E.M. Anomaly

Collar : 1100E , 4669N  
Azimuth : 180° G.  
Inclination : -60°

**CRA EXPLORATION PTY. LIMITED**

SHEFFIELD E.L. 7/73  
GOWRIE PARK PROSPECT  
RD 85 GP 5 SECTION

REF.	SK55 - 5	( 8114 - 8115 )
SCALE	1 : 1000	DRAWN R.T.
AUTHOR	S.J.C.	REPORT No.
DATE	20 - 6 - 1985	PLAN No. TASH 2855

039

C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOG

SHEET No. 1/1

TENEMENT NAME SHEFFIELD No. E. 2

PLAN - MAP REFERENCE.....

CO-ORDINATES 1100 E 4669 N AZIMUTH 180° (G) DRILLERS..... COMMENCED..... DEPTH 96.5m HOLE No. RDBSQE

RL COLLAR..... INCLINATION -60° DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath. Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)										
From (M)	To (M)																				
0.0	42.6				Quartz crystal tuff; coarse grained; anhedral quartz clasts (2-5mm) within a chlorite rich matrix. Chlorite occurs as elongated fragments producing a foliation at ~10° to the core axis. Pervasive argillitic alteration plus argillitic veinlets discordant to foliation; quartz clasts contain argillitized veinlets roughly perpendicular to foliation. Weak silicification apparent. MINERALIZATION: Trace disseminated limonite after pyrite with occasional pyrite aggregates. 0.0-21.6m Intense weathering - Common limonite alteration. 21.6-38.5m Minor weathering along joints - limonite.																
42.6	45.8				Quartz crystal tuff (or quartz porphyry); common, subhedral quartz clasts (phenocrysts) decreasing in abundance with depth, within an aphanitic matrix with weak pervasive chlorite alteration; quartz clasts 2-5mm; chloritic fragments up to 5mm, some maintaining angular outline. Quartz veins and argillitized veinlets throughout. Weak silicification apparent. MINERALIZATION: Trace limonite after pyrite and pyrite within the quartz and argillitic veinlets.																
45.8	67.8				Quartz crystal tuff; medium grained anhedral quartz clasts (2-3mm) within a fine chloritic matrix; chlorite occurs as elongated fragments producing a foliation at ~30° to the core axis.																

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C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOG

SHEET No. 2

TENEMENT NAME SHEFFIELD EL No. 7/

CO-ORDINATES 1100E 4669N AZIMUTH 180° (g) DRILLERS..... COMMENCED..... DEPTH 96.5m HOLE No. RD85C  
RL COLLAR..... INCLINATION -60° DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath. Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)						
From (M)	To (M)																
					<p>Persevere argillie alteration occur throughout plus argillie veinlets discordant to foliation. Weak silicification except at. Differ from 0-42.6m due to less quartz clasts and chlorite fragments.</p> <p><u>MINERALIZATION</u>: Trace pyrite and galena associated with argillie veinlets.</p>												
67.8	81.6				<p>Quartz crystal tuff; strongly sericite + chlorite altered fine grained matrix containing common medium grained anhedral quartz clasts and chloritic fragments, some maintaining angular outlines. The zone increases in quartz clast and chlorite fragment content from 72.0m. Weakly developed foliation at ~40° to core axis between 72.0-81.6m.</p> <p>Argillie alteration veinlets throughout plus strongly developed pervasive argillie alteration from 77.0m.</p> <p><u>MINERALIZATION</u>: Trace-minor galena and trace pyrite associated with the argillite veinlets. Minor disseminated pyrite throughout.</p>												
81.6	84.4				<p>Brecciated quartz crystal tuff; moderately sericite and chlorite altered fine grained matrix containing common anhedral quartz clasts and minor chloritic fragments.</p> <p>Strong argillie alteration of matrix enhancing brecciated appearance plus argillite veinlets.</p> <p>81.6-81.8m intense argillie alteration of matrix.</p>												

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C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOG

SHEET No. 3/7

TENEMENT NAME SHEFFIELD EL. No. 7/

CO-ORDINATES 1100E 4669N AZIMUTH 180°(G) DRILLERS..... COMMENCED..... DEPTH 96.5m HOLE No. RD85G  
RL COLLAR..... INCLINATION -60° DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)								
From (M)	To (M)																		
					MINERALIZATION: 5mm vein of galena at top contact; trace galena and pyrite associated with argillic veinlets.														
84.4	88.9				Quartz crystal tuff as per 72.0-81.6m; quartz veining more common with associated mineralization. MINERALIZATION: Trace disseminated galena, pyrite and chalcopyrite associated with quartz veins with lesser sulphides disseminated throughout zone.														
88.9	96.5				Medium grained tuffaceous sediment; common medium grained quartz clasts in a fine matrix. Weak pervasive chlorite and sericite alteration plus moderate pervasive argillic alteration; argillic veinlets common and lesser chlorite veinlets. MINERALIZATION: Trace disseminated pyrite throughout.														

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DD 25 GP5.

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Analysis code A1/1,2

Report AC 4072/85

Page: G1

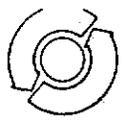
NATA Certificate

Order No. 31944

Results in ppm

Sample	Cu	Zn	Ag	Fe	Mn	As	Pb
989662	175	300	<1	3.73%	1.21%	30	44
989663	26	310	<1	4.01%	1.54%	15	35
989664	24	405	<1	5.54%	2.48%	15	46
989665	28	375	<1	4.71%	2.30%	25	170
989666	185	355	1	4.96%	1.07%	30	710
989667	66	285	<1	4.57%	1.14%	20	50
989668	2940	480	<1	6.98%	1.13%	10	35
989669	205	365	<1	5.60%	1.06%	<10	22
989670	650	475	<1	6.52%	1.45%	10	265
989671	27	195	1	4.39%	1.53%	10	2280
989672	64	580	1	7.52%	1.29%	25	1280
989673	200	300	<1	6.84%	1.30%	30	50
989674	150	285	<1	6.18%	1.19%	30	250
989675	105	350	2	3.37%	1.38%	30	2600
989676	74	550	2	2.94%	5550	30	1860
989677	78	930	2	3.44%	1.25%	30	4000
989678	35	285	1	2.77%	9450	25	2060
989679	38	370	2	3.76%	1.40%	10	2900
989680	870	435	1	7.50%	2.34%	110	990
989681	175	600	4	6.68%	2.50%	40	1.26%
989682	52	260	<1	3.44%	1.47%	25	2100
989683	165	355	1	3.25%	1.29%	45	1240
989684	315	355	<1	3.06%	1.13%	50	660
989685	2480	1420	5	11.3%	5.50%	170	6550
Detn limit	(2)	(2)	(1)	(5)	(5)	(10)	(2)

103



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30 S GPS.

048104

Analysis code A1/1,2

Report AC 4072/85

Page G1

NATA Certificate

Order No. 31944

Results in ppm

Sample	Cu	Zn	Ag	Fe	Mn	As	Pb
989662	175	300	<1	3.73%	1.21%	30	44
989663	26	310	<1	4.01%	1.54%	15	35
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989665	28	375	<1	4.71%	2.30%	25	170
989666	185	355	1	4.96%	1.07%	30	710
989667	66	285	<1	4.57%	1.14%	20	50
989668	2940	480	<1	6.98%	1.13%	10	35
989669	205	365	<1	5.60%	1.06%	<10	22
989670	650	475	<1	6.52%	1.45%	10	265
989671	27	195	1	4.39%	1.53%	10	2280
989672	64	580	1	7.52%	1.29%	25	1280
989673	200	300	<1	6.84%	1.30%	30	50
989674	150	285	<1	6.18%	1.19%	30	250
989675	105	350	2	3.37%	1.38%	30	2600
989676	74	550	2	2.94%	5550	30	1860
989677	78	930	2	3.44%	1.25%	30	4000
989678	35	285	1	2.77%	9450	25	2060
989679	38	370	2	3.76%	1.40%	10	2900
989680	870	435	1	7.50%	2.34%	110	990
989681	175	600	4	6.68%	2.50%	40	1.26%
989682	52	260	<1	3.44%	1.47%	25	2100
989683	165	355	1	3.25%	1.29%	45	1240
989684	315	355	<1	3.06%	1.13%	50	660
989685	2480	1420	5	11.3%	5.50%	170	6550

Detn limit      (2)      (2)      (1)      (5)      (5)      (10)      (2)



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300 000 mE  
5 500 000 mN

400 000 mE

5 400 000 mN

5 300 000 mN

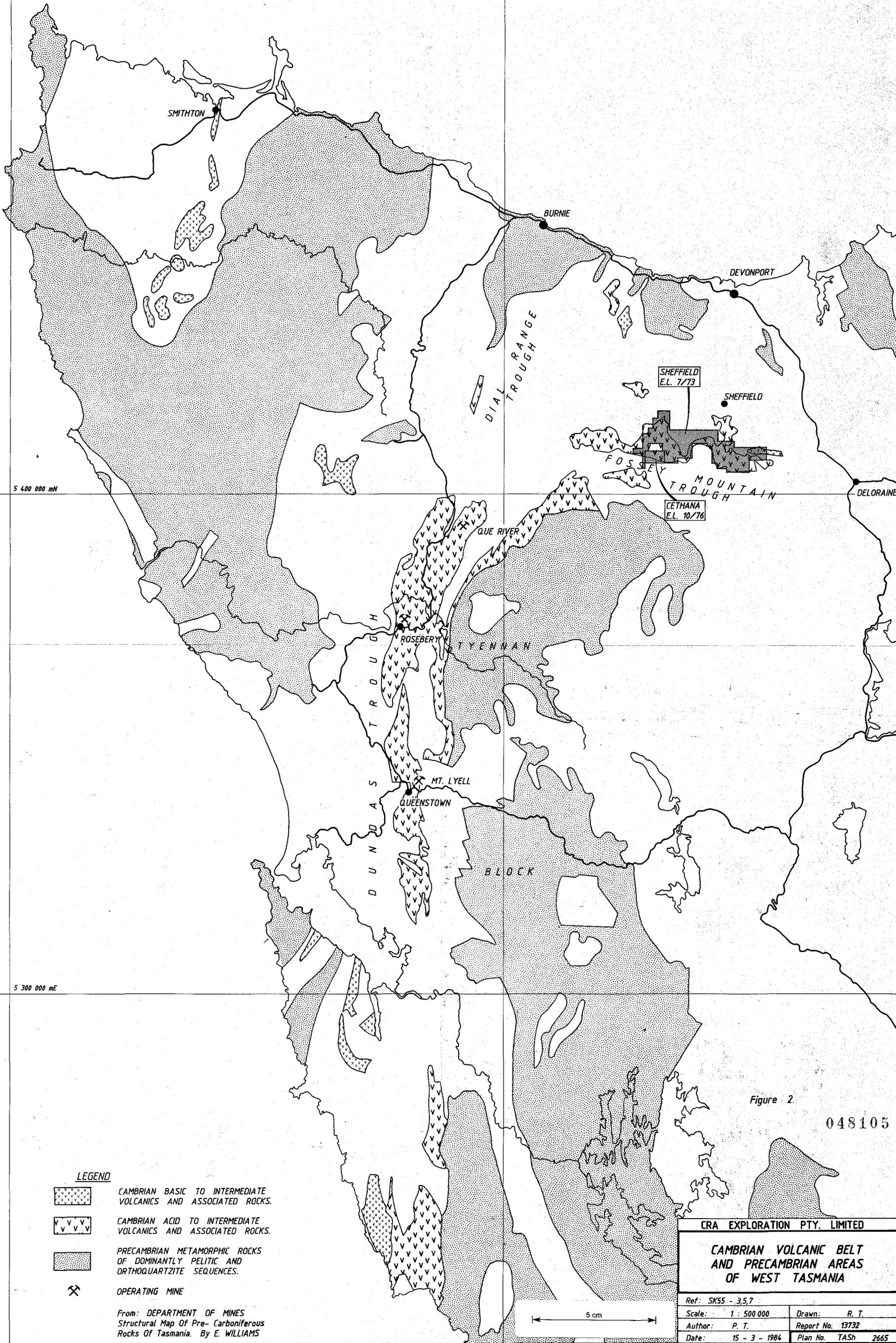
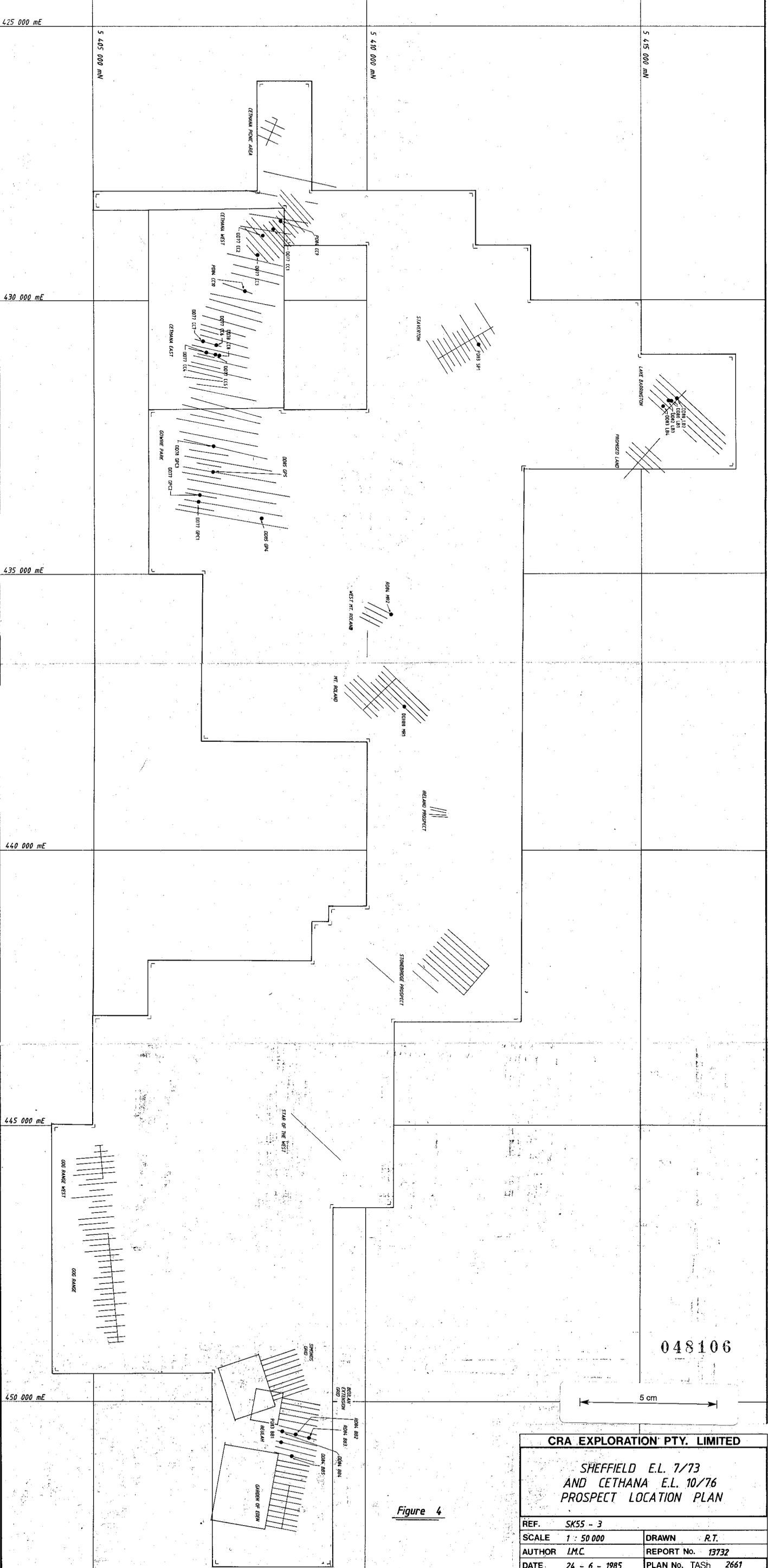


Figure 2  
048105

- LEGEND**
-  CAMBRIAN BASIC TO INTERMEDIATE VOLCANICS AND ASSOCIATED ROCKS.
  -  CAMBRIAN ACID TO INTERMEDIATE VOLCANICS AND ASSOCIATED ROCKS.
  -  PRECAMBRIAN METAMORPHIC ROCKS OF DOMINANTLY PELITIC AND ORTHOQUARTZITE SEQUENCES.
  -  OPERATING MINE

From: DEPARTMENT OF MINES  
Structural Map Of Pre-Carboniferous  
Rocks Of Tasmania. By E. WILLIAMS

CRA EXPLORATION PTY. LIMITED	
<b>CAMBRIAN VOLCANIC BELT AND PRECAMBRIAN AREAS OF WEST TASMANIA</b>	
Ref: SK55 - 3,5,7	
Scale: 1 : 500 000	Drawn: R. T.
Author: P. T.	Report No. 13732
Date: 15 - 3 - 1984	Plan No. TASH 2665



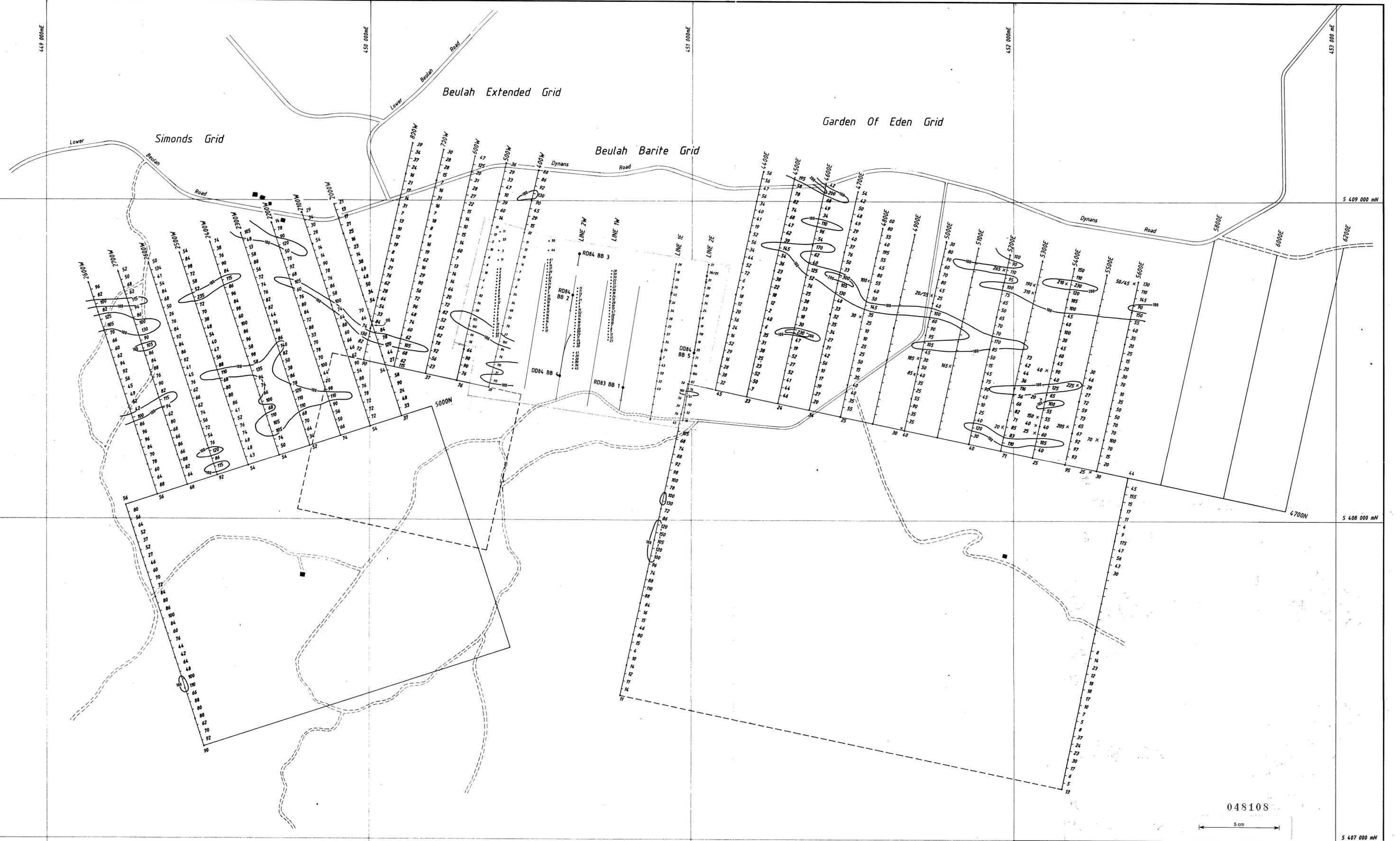
048106

5 cm

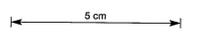
<b>CRA EXPLORATION PTY. LIMITED</b>	
SHEFFIELD E.L. 7/73 AND CETHANA E.L. 10/76 PROSPECT LOCATION PLAN	
REF. SK55 - 3	
SCALE 1 : 50 000	DRAWN R.T.
AUTHOR I.M.C.	REPORT No. 13732
DATE 24 - 6 - 1985	PLAN No. TASH 2661

Figure 4





048108

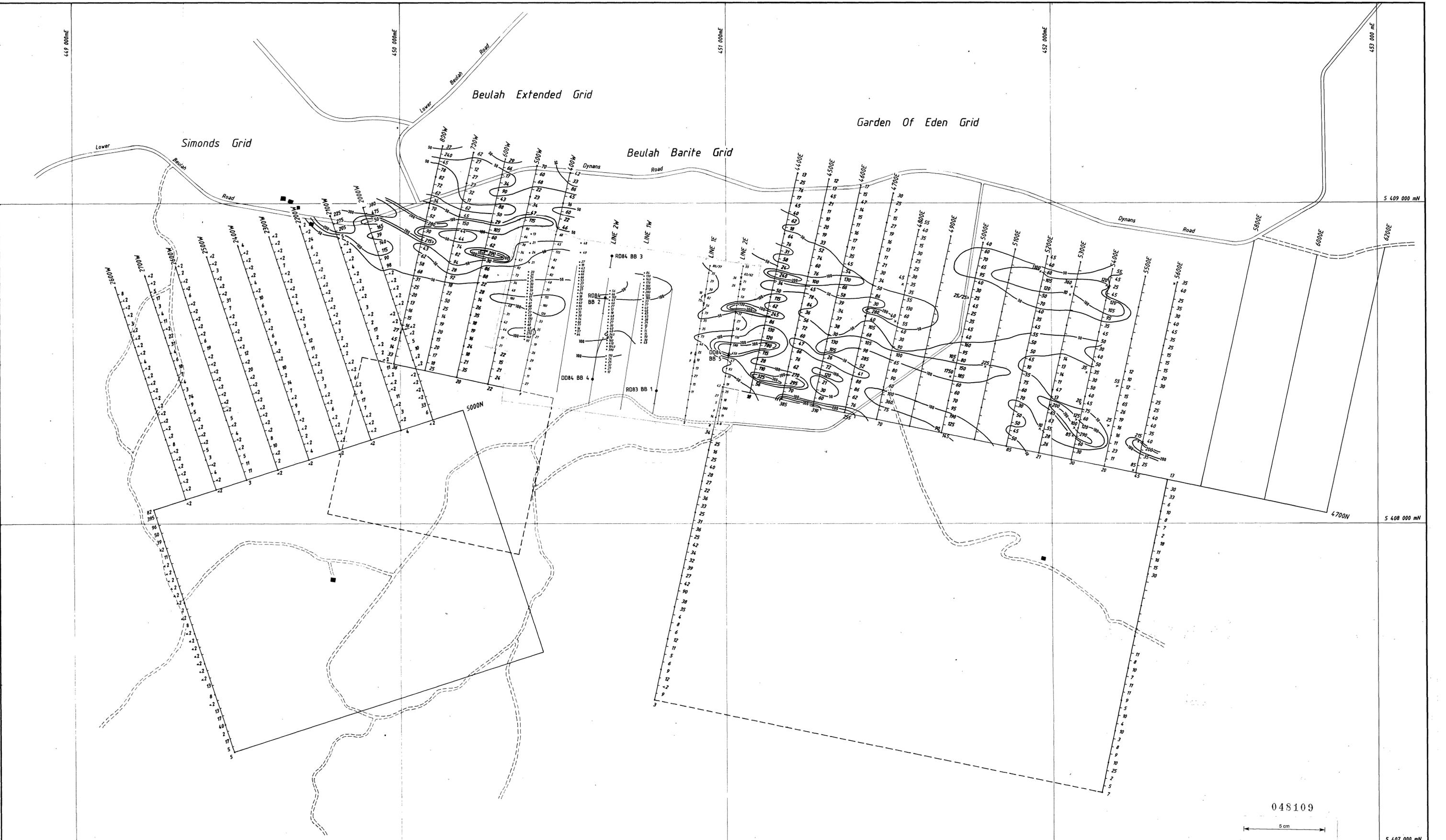


\* N.B. \*  
All values in ppm.

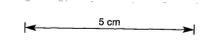
CRA EXPLORATION PTY. LIMITED	
SHEPFIELD E.L. 7/73 SIMMONDS, BEULAH, AND GARDEN OF EDEN GRIDS Cu SOIL GEOCHEMISTRY	
REF. SK55 - 3	
SCALE 1 : 5 000	DRAWN R.T.
AUTHOR S.J.C.	REPORT No. 13732
DATE 29 - 5 - 1985	PLAN No. TASH 2633

5 407 000 mN

5387



048109

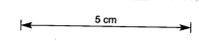


\* N.B. \*  
All values in p.p.m.

CRA EXPLORATION PTY. LIMITED	
SHEFFIELD E.L. 7/73 SIMMONDS, BEULAH, AND GARDEN OF EDEN GRIDS Pb SOIL GEOCHEMISTRY	
REF. SK55 - 3	DRAWN R.T.
SCALE 1 : 5 000	REPORT No. 13732
AUTHOR S.J.C.	PLAN No. TASH 2634
DATE 29 - 5 - 1985	



048110



\* N.B. \*  
All values in p.p.m.

CRA EXPLORATION PTY. LIMITED			
SHEFFIELD E.L. 7/73 SIMMONDS, BEULAH, AND GARDEN OF EDEN GRIDS Zn SOIL GEOCHEMISTRY			
REF.	SK55 - 3		
SCALE	1 : 5 000	DRAWN	R.T.
AUTHOR	S.J.C.	REPORT No.	13732
DATE	29 - 5 - 1985	PLAN No.	TASh : 2635

449 000mE

450 000mE

451 000mE

452 000mE

Beulah Extended Grid

Garden Of Eden Grid

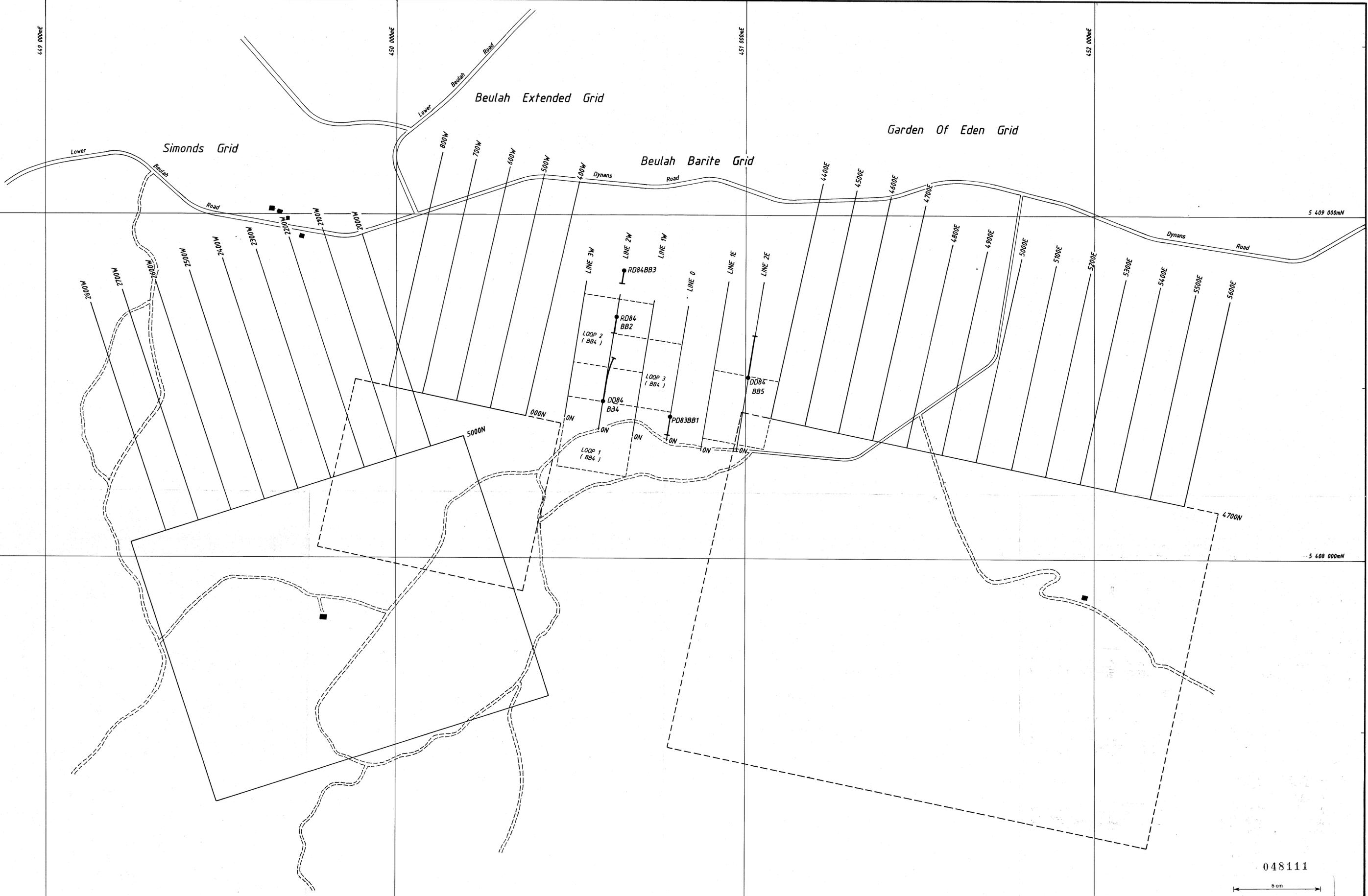
Simonds Grid

Beulah Barite Grid

5 409 000mN

5 408 000mN

5 407 000mN

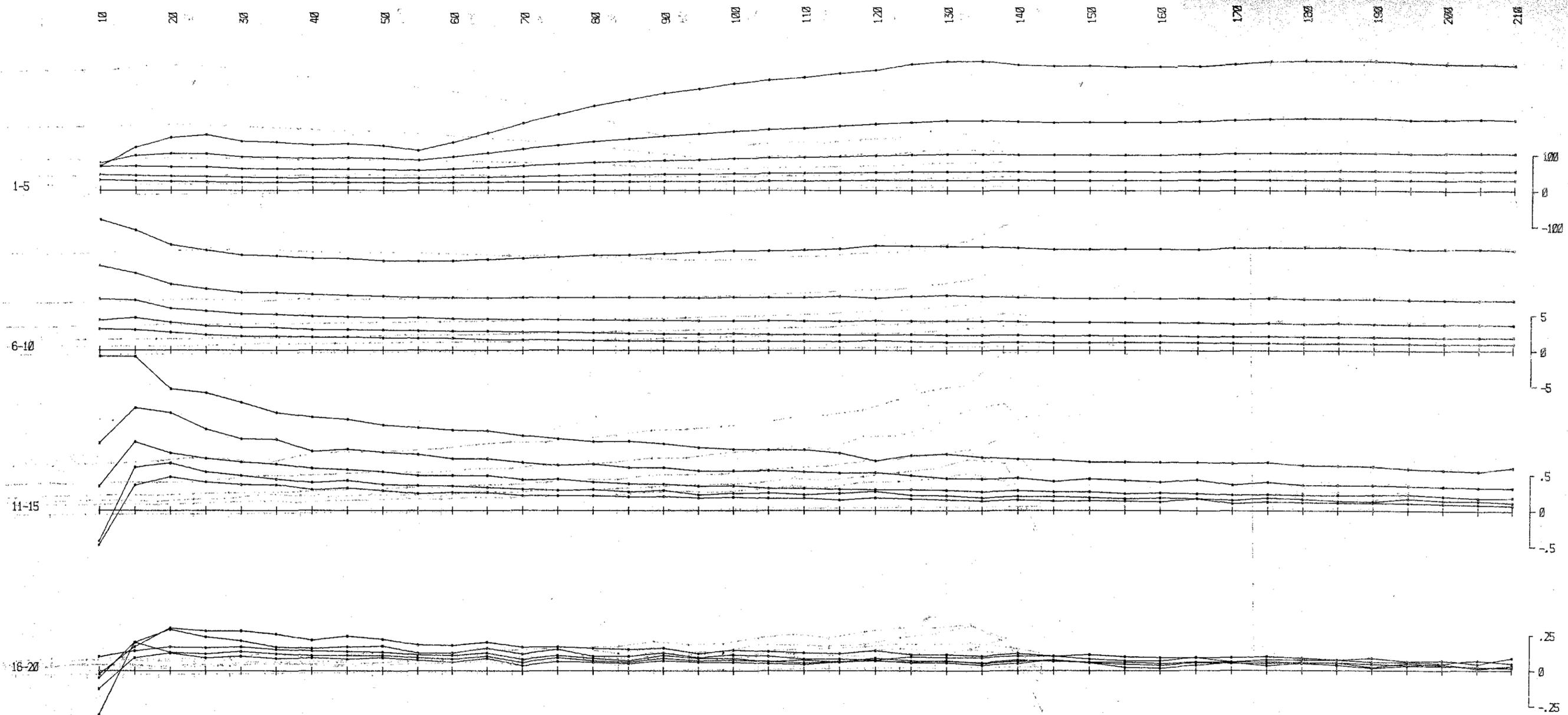


048111

5 cm

CRA EXPLORATION PTY. LIMITED			
SHEFFIELD E.L.7/73 PLAN OF THE SIMONDS, BEULAH, & GARDEN OF EDEN GRIDS			
REF.	SK55-3	DRAWN	M.D.
SCALE	1:5 000	REPORT No.	13732
AUTHOR	P.A.T.	DATE	13-2-1985
		PLAN No.	TASH 2507

AXIAL COMPONENT B (A)



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD  
TIME DERIVATIVE OF FLUX DENSITY (B)

048112

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : ~~00000N~~ ~~00000E~~  
: ~~00200N~~ ~~00200E~~  
TX LOOP SIZE : 200 m X 200 m  
TX TURN OFF TIME : 160 microseconds.  
FIRST GATE TIME : 88.5 microseconds.  
CURRENT : 14.0 amps  
FREQUENCY : 25 Hz.  
INTEGRATION TIME : 256 cycles  
SYNC MODE : CRYSTAL  
HORIZONTAL SCALE : 1:500  
SURVEYED BY : PE  
DATE : 13/02/1985

	SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.	PROJECT NO. 85-1848
	CLIENT : CRA Exploration Ltd. PROJECT : Boulah. Barlie AREA : Sheffield Tas. BOREHOLE : BB4 /1 TX LOOP : 1	

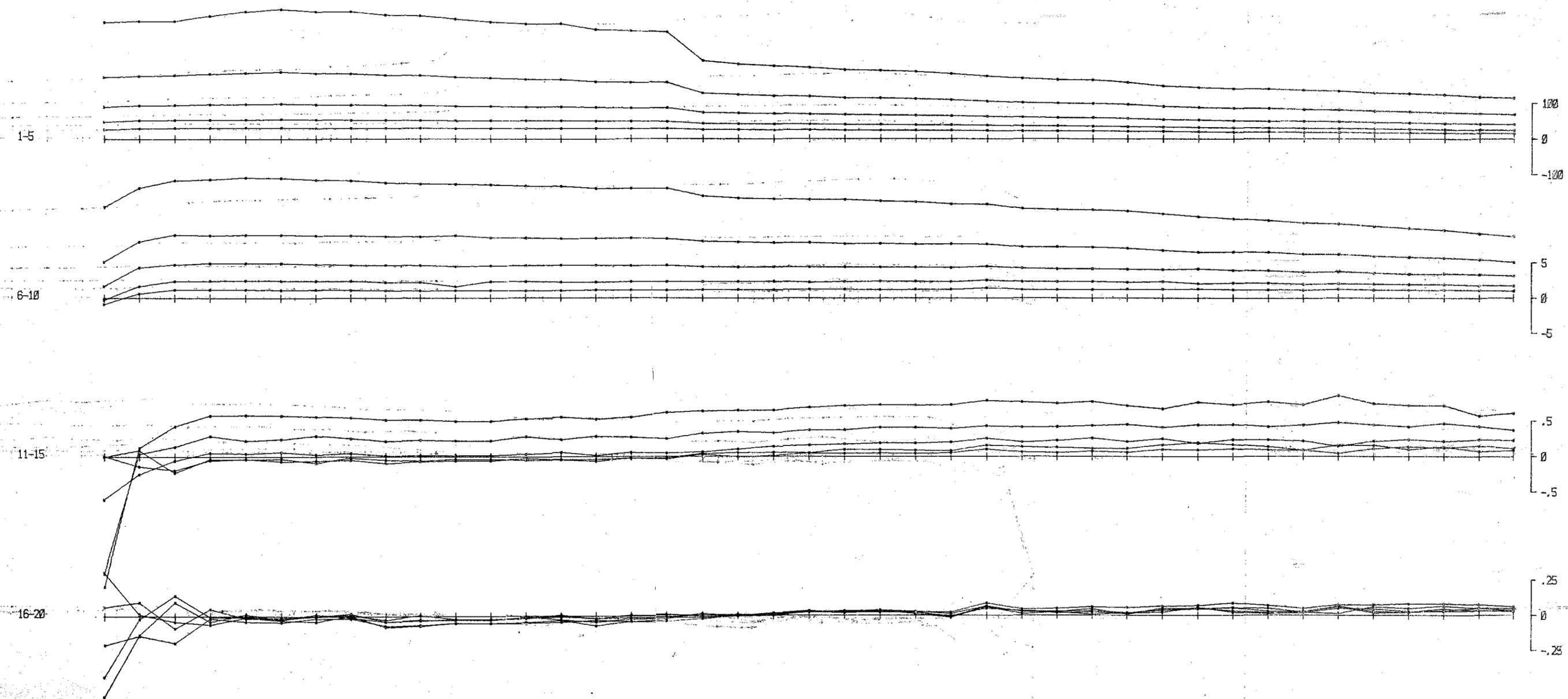
TASH 2871

86-2531 104

(4) 175/19/100 5.23

AXIAL COMPONENT B (A)

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD.

TIME DERIVATIVE OF FLUX DENSITY (B)

048113

5 cm

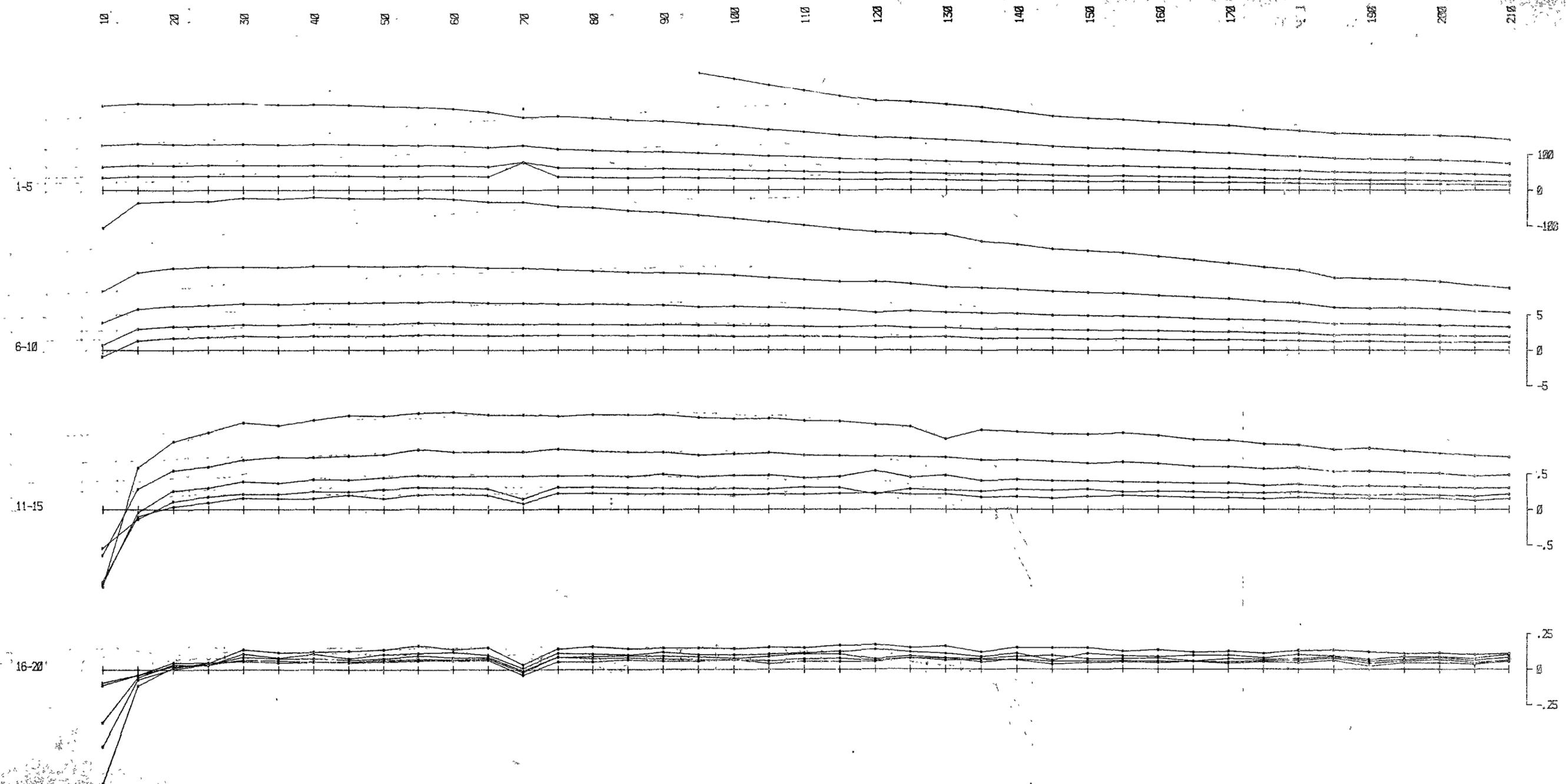
nanovolts per amp metre squared

TX LOOP SIDES : 00000N 00000E  
 : 00200N 00200E  
 TX LOOP SIZE : 200 m X 200 m  
 TX TURN OFF TIME : 168 microseconds.  
 FIRST GATE TIME : 88.5 microseconds.  
 CURRENT : 14.0 amps  
 FREQUENCY : 25 Hz.  
 INTEGRATION TIME : 256 cycles  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1:500  
 SURVEYED BY : R.J.L.  
 DATE : 13/02/1985

	SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.	PROJECT NO. 85-1648
	CLIENT : CRA Exploration Ltd. PROJECT : Beulah Barite AREA : Sheffield Tas. BOREHOLE : BB4 /2 TX LOOP : 1	

TASH 2872

AXIAL COMPONENT  $\dot{B}$  (A)



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD  
TIME DERIVATIVE OF FLUX DENSITY (B)

048114

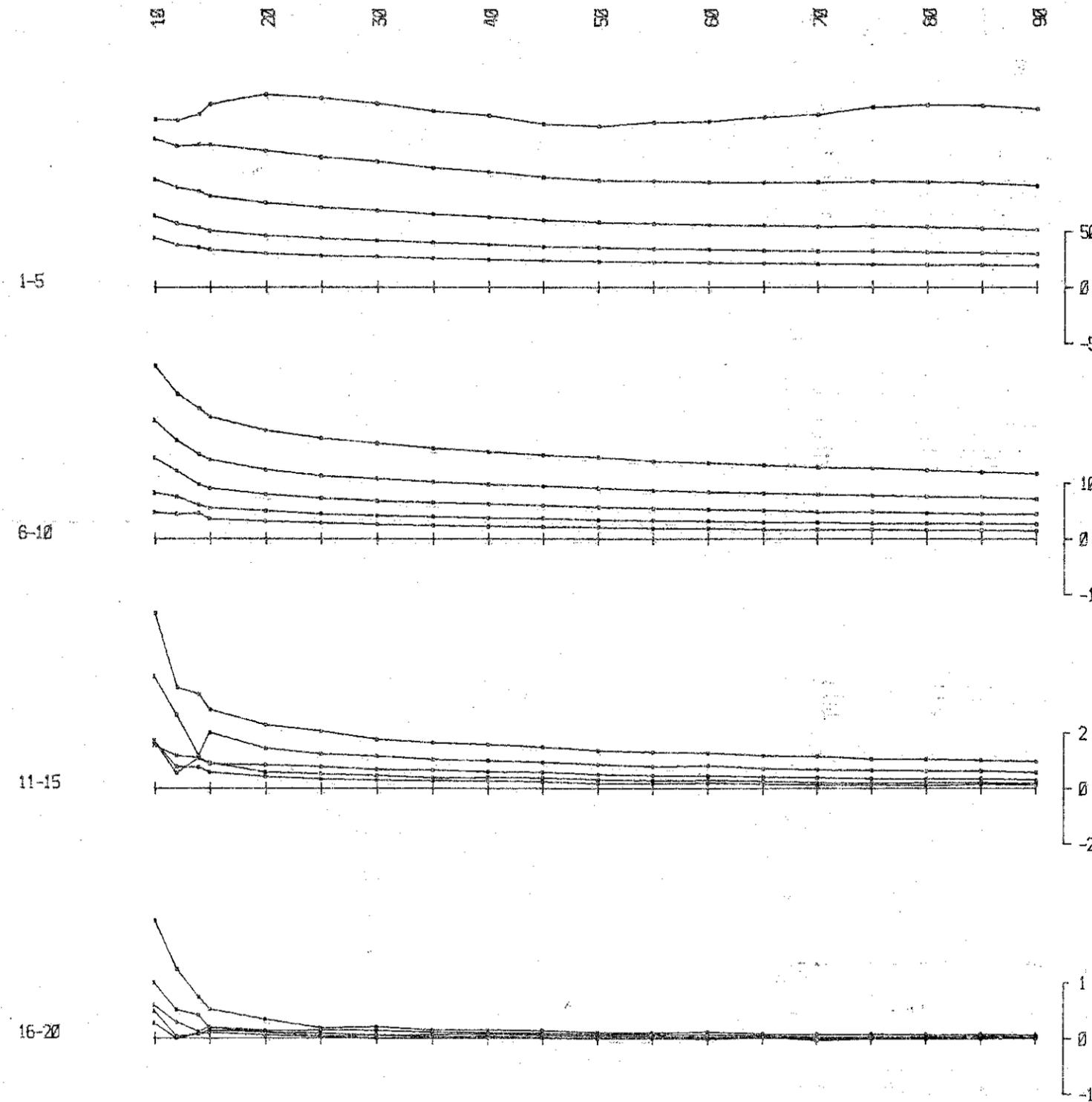
5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 00200N 00000E  
: 00200N 00200E  
TX LOOP SIZE : 200 m X 200 m  
TX TURN OFF TIME : 165 microsecs.  
FIRST GATE TIME : 88.5 microsecs.  
CURRENT : 15.7 amps  
FREQUENCY : 25 Hz.  
INTEGRATION TIME : 256 cycles  
SYNC MODE : CRYSTAL  
HORIZONTAL SCALE : 1:500  
SURVEYED BY : PL  
DATE : 13/02/1985

	SURVEYED AND COMPILED BY GEOTREX PTY. LTD.	PROJECT NO. 85-1848
	CLIENT : ERA Exploration Ltd. PROJECT : Bouleah Beriso AREA : Sheffield Tas. BOREHOLE : BB4 /3 TX LOOP : 1	TASK 2873

AXIAL COMPONENT  $\dot{B}$  (A)



nanovolts per amp metre squared.

EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

048115

5 cm

TX LOOP SIDES : 00000N 00000E  
 : 00300N 00300E  
 TX LOOP SIZE : 200 m X 200 m  
 TX TURN OFF TIME : 186 microsecs.  
 FIRST GATE TIME : 88.5 microsecs.  
 CURRENT : 16.0 amps  
 FREQUENCY : 25 Hz.  
 INTEGRATION TIME : 256 cycles  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1:500  
 SURVEYED BY : R.J.  
 DATE : 13/02/1985

	SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.	PROJECT NO. 85-1848
	CLIENT : CRA Exploration Ltd. PROJECT : Baulah Barite AREA : Sheffield Tas. BOREHOLE : BBS /1 TX LOOP : 1	

CLIENT : CRA Exploration Ltd.  
 PROJECT : Baulah Barite  
 AREA : Sheffield Tas.  
 BOREHOLE : BBS /1  
 TX LOOP : 1

TASH 2074

MRT 86-2531

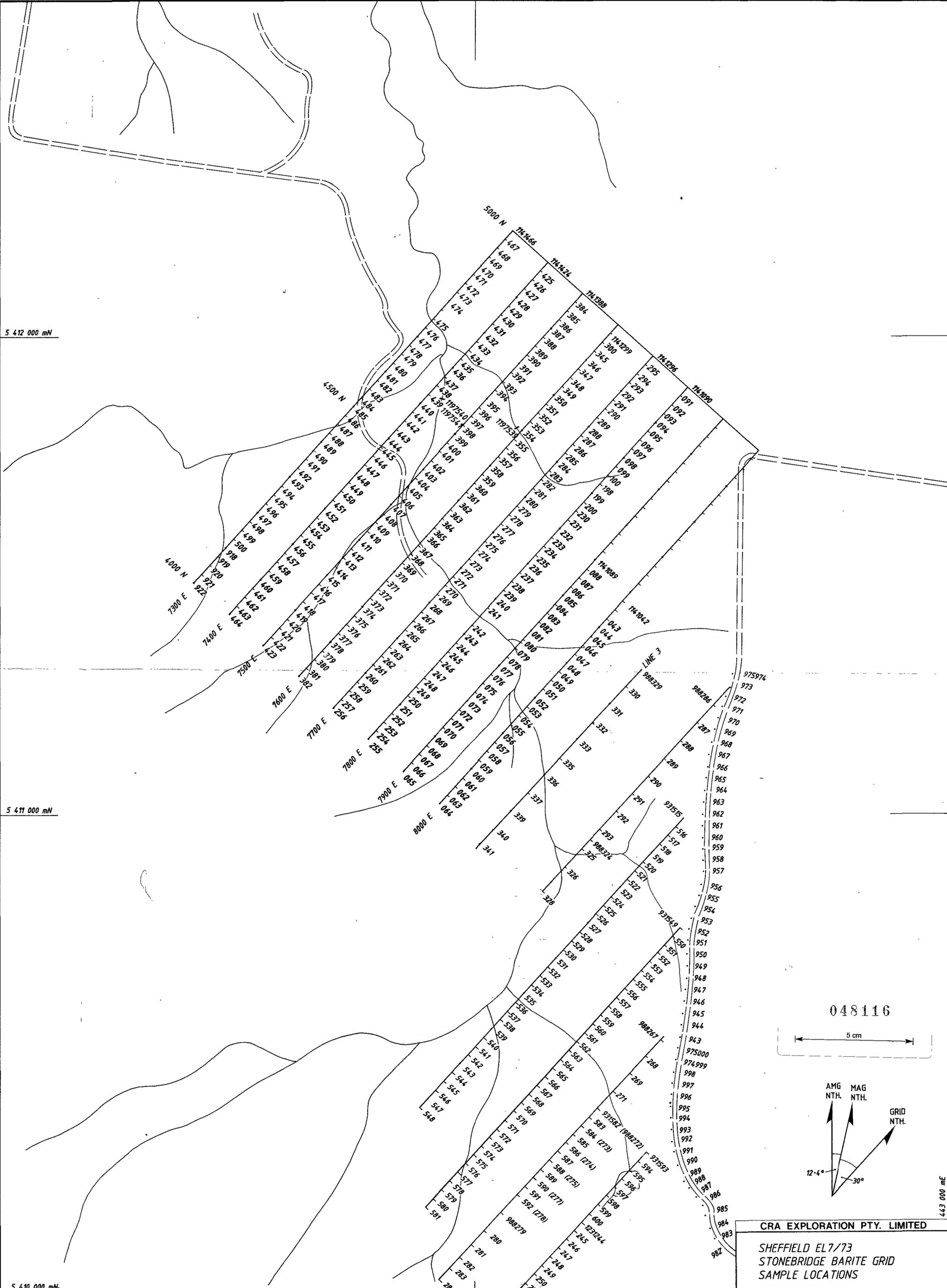
5 412 000 mN

5 411 000 mN

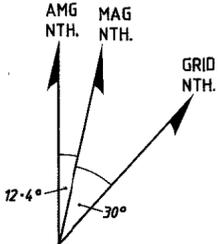
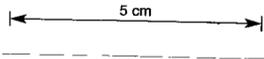
5 410 000 mN

441 000 mE

443 000 mE



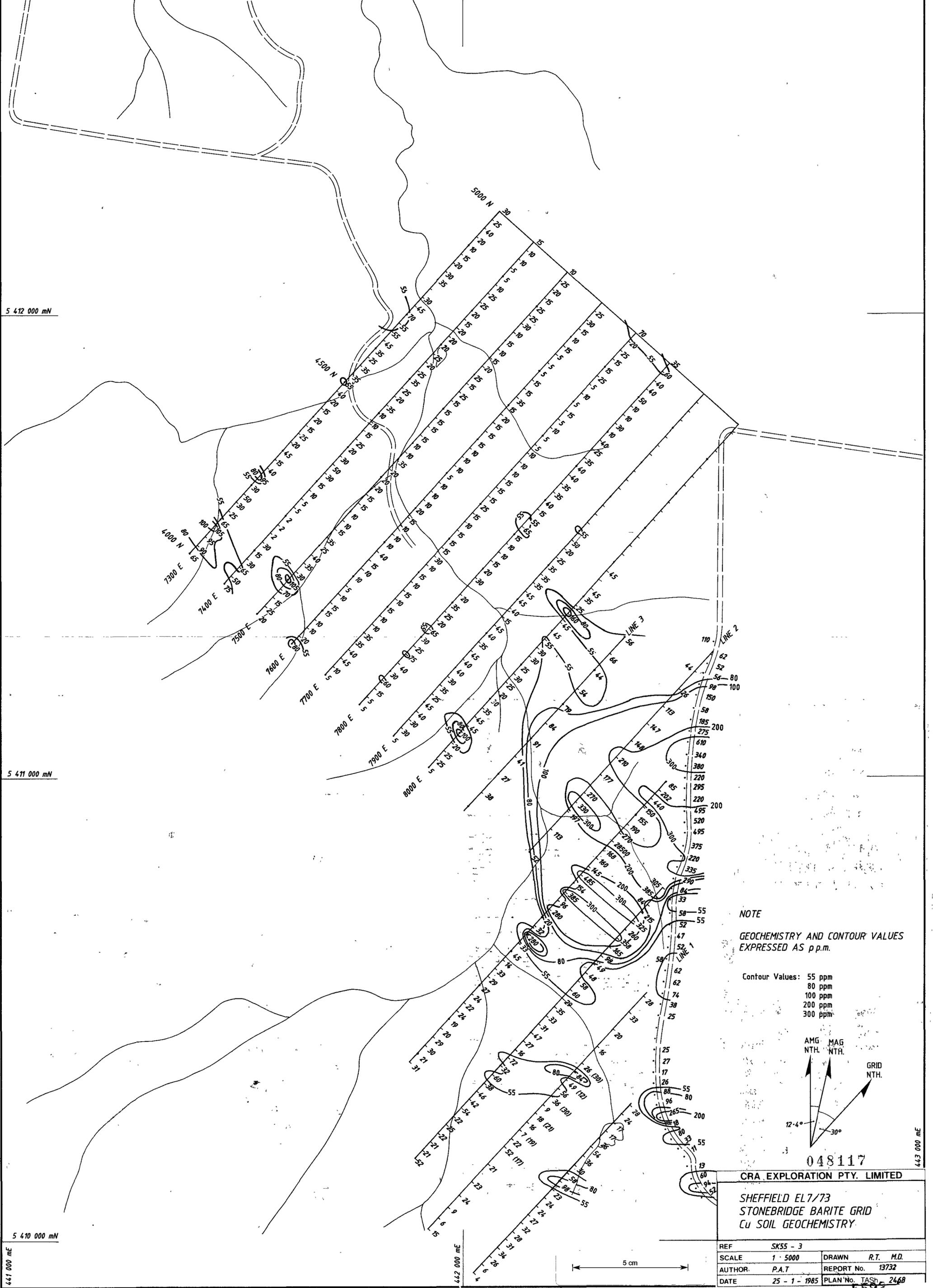
048116



CRA EXPLORATION PTY. LIMITED

SHEFFIELD EL7/73  
STONEBRIDGE BARITE GRID  
SAMPLE LOCATIONS

REF	SK55 - 3	
SCALE	1 : 5000	DRAWN R.T. M.D.
AUTHOR	P.A.T.	REPORT No. 13732
DATE	25 - 1 - 1985	PLAN No. TASH 2467



5 412 000 mN

5 411 000 mN

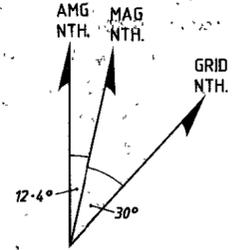
5 410 000 mN

441 000 mE

442 000 mE

**NOTE**  
 GEOCHEMISTRY AND CONTOUR VALUES  
 EXPRESSED AS ppm.

- Contour Values: 55 ppm  
 80 ppm  
 100 ppm  
 200 ppm  
 300 ppm

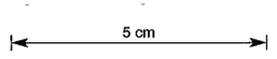


048117

CRA EXPLORATION PTY. LIMITED

SHEFFIELD EL7/73  
 STONEBRIDGE BARITE GRID  
 Cu SOIL GEOCHEMISTRY

REF	SK55 - 3	
SCALE	1 : 5000	DRAWN R.T. M.D.
AUTHOR	P.A.T	REPORT No. 13732
DATE	25 - 1 - 1985	PLAN No. TASH - 2468



300 000 E77

5532

5 412 000 mN

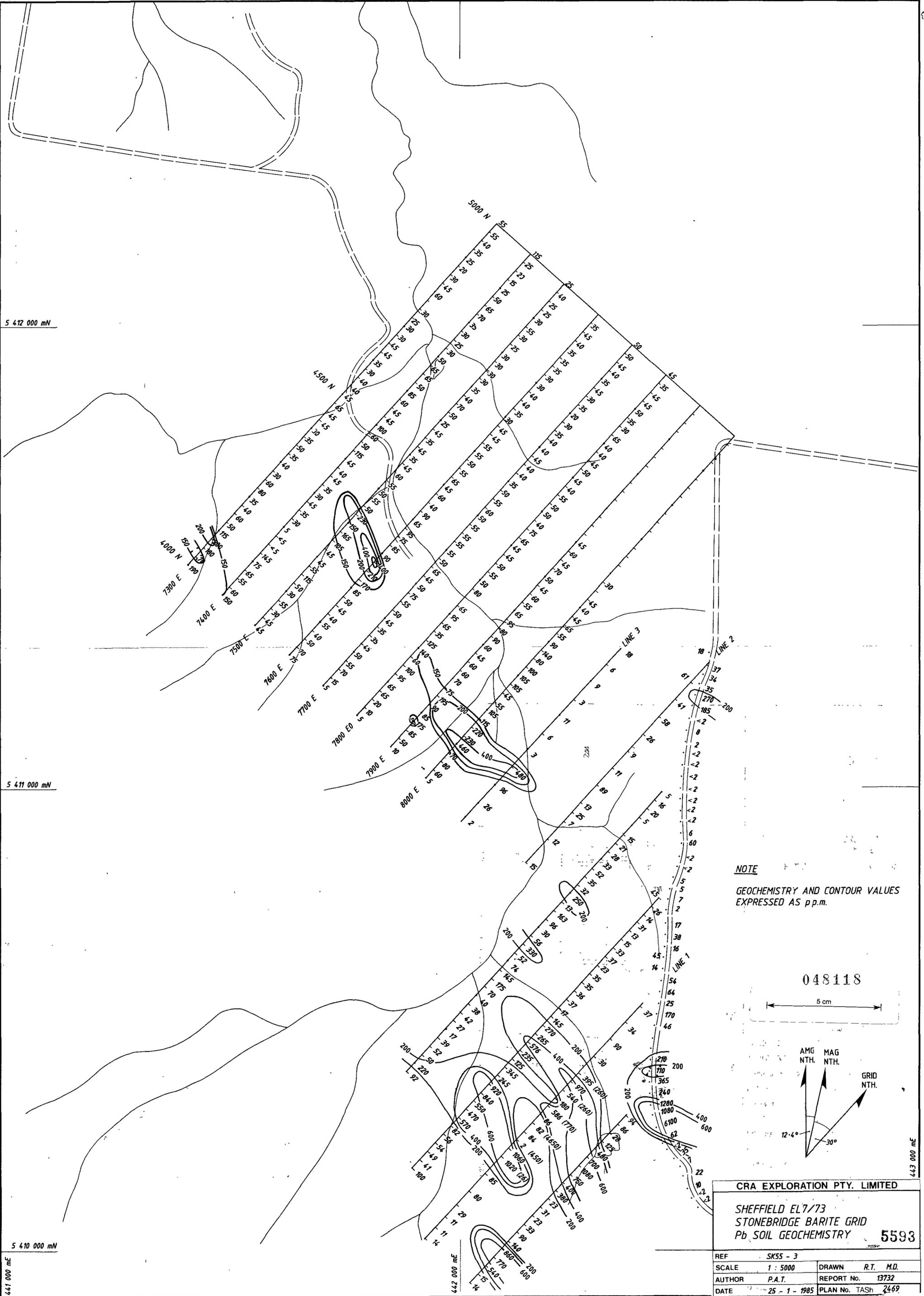
5 411 000 mN

5 410 000 mN

441 000 mE

442 000 mE

443 000 mE

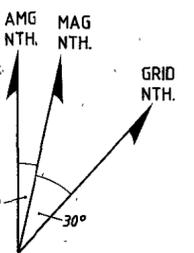


**NOTE**

GEOCHEMISTRY AND CONTOUR VALUES  
EXPRESSED AS pp.m.

048118

5 cm



CRA EXPLORATION PTY. LIMITED

SHEFFIELD EL7/73  
STONEBRIDGE BARITE GRID  
Pb SOIL GEOCHEMISTRY 5593

REF	SK55 - 3	DRAWN	R.T. M.D.
SCALE	1 : 5000	REPORT No.	13732
AUTHOR	P.A.T.	PLAN No.	TASH 2469
DATE	25 - 1 - 1985		

5 412 000 mN

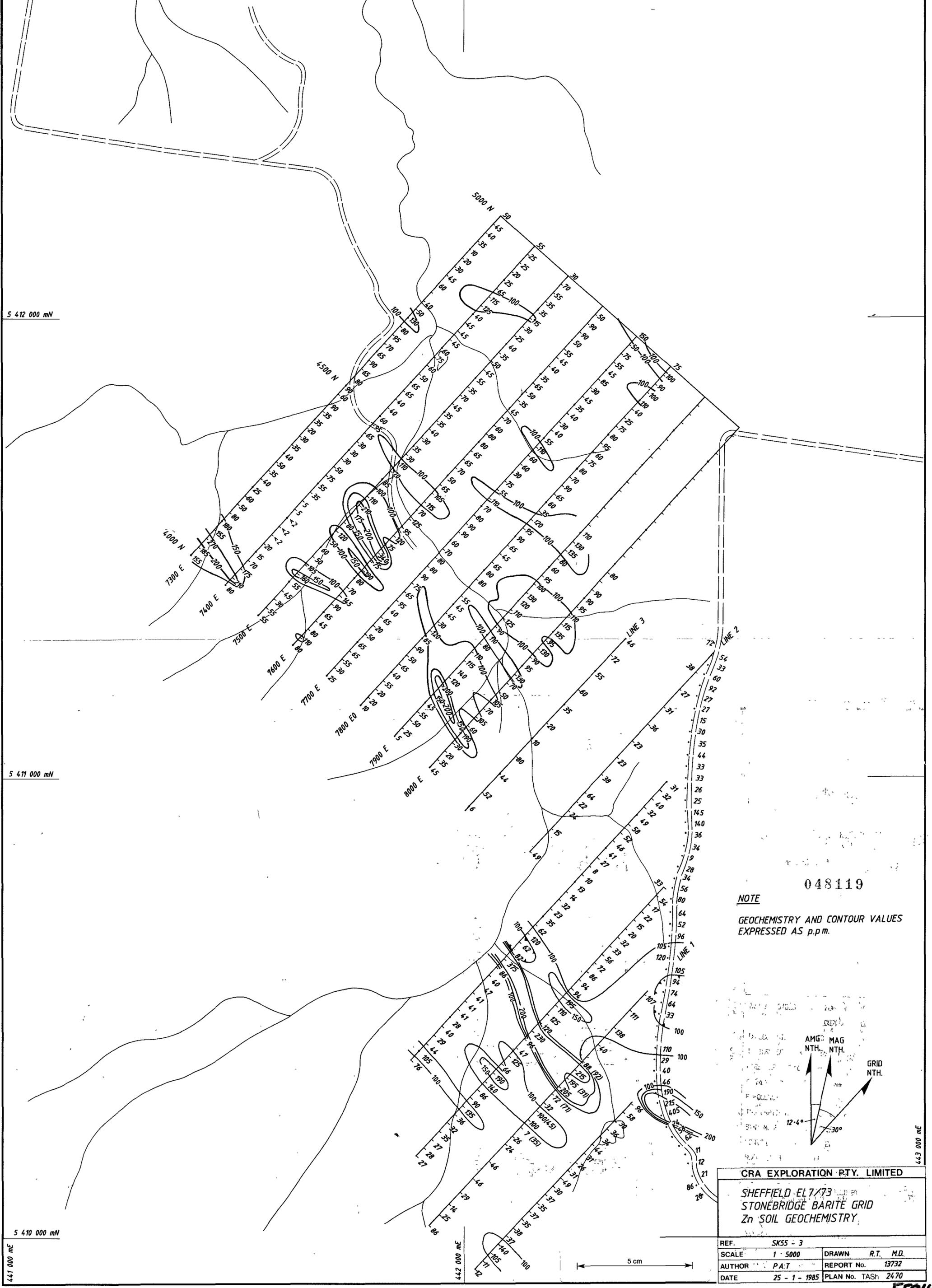
5 411 000 mN

5 410 000 mN

441 000 mE

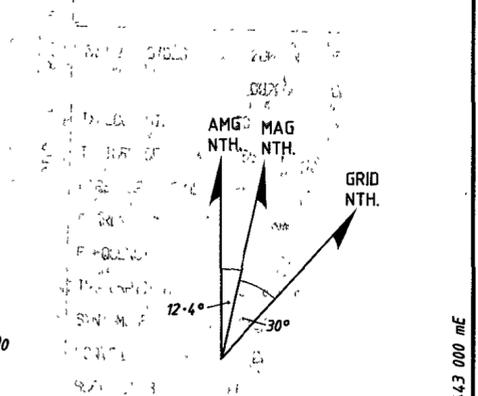
442 000 mE

443 000 mE



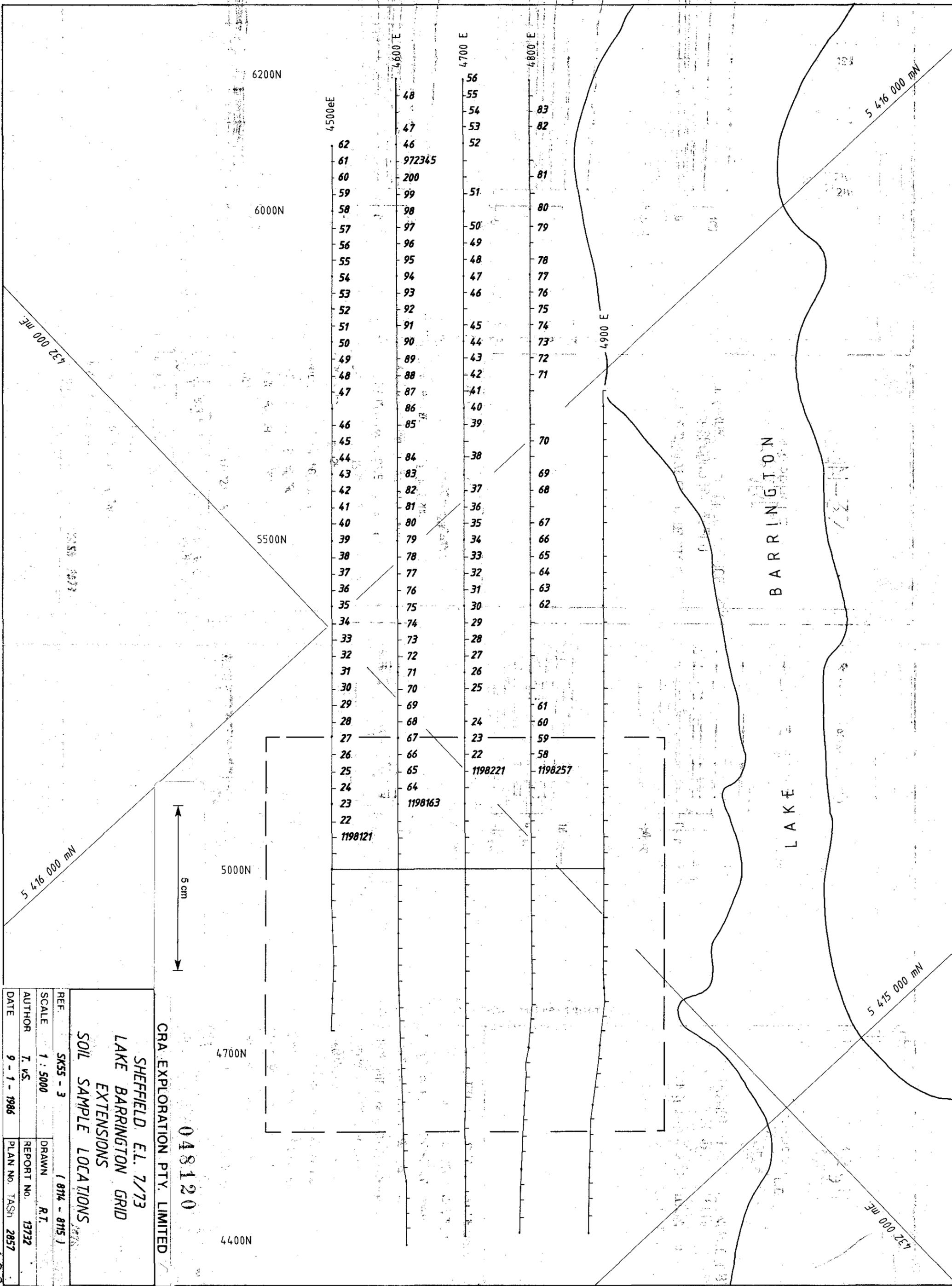
048119

**NOTE**  
 GEOCHEMISTRY AND CONTOUR VALUES  
 EXPRESSED AS p.p.m.



**CRA EXPLORATION PTY. LIMITED**  
 SHEFFIELD EL 7/73  
 STONEBRIDGE BARITE GRID  
 Zn SOIL GEOCHEMISTRY

REF.	SK55 - 3	
SCALE	1 : 5000	DRAWN R.T. M.D.
AUTHOR	P.A.T.	REPORT No. 13732
DATE	25 - 1 - 1985	PLAN No. TASH 2470



REF: SK55 - 3  
 SCALE: 1 : 5000  
 AUTHOR: T. V.S.  
 DATE: 9 - 1 - 1986

DRAWN: R.T.  
 REPORT NO.: 13732  
 PLAN NO.: TASH 2857

SHEFFIELD E.L. 7/73  
 LAKE BARRINGTON GRID  
 EXTENSIONS  
 SOIL SAMPLE LOCATIONS

CRA EXPLORATION PTY. LIMITED  
 048120

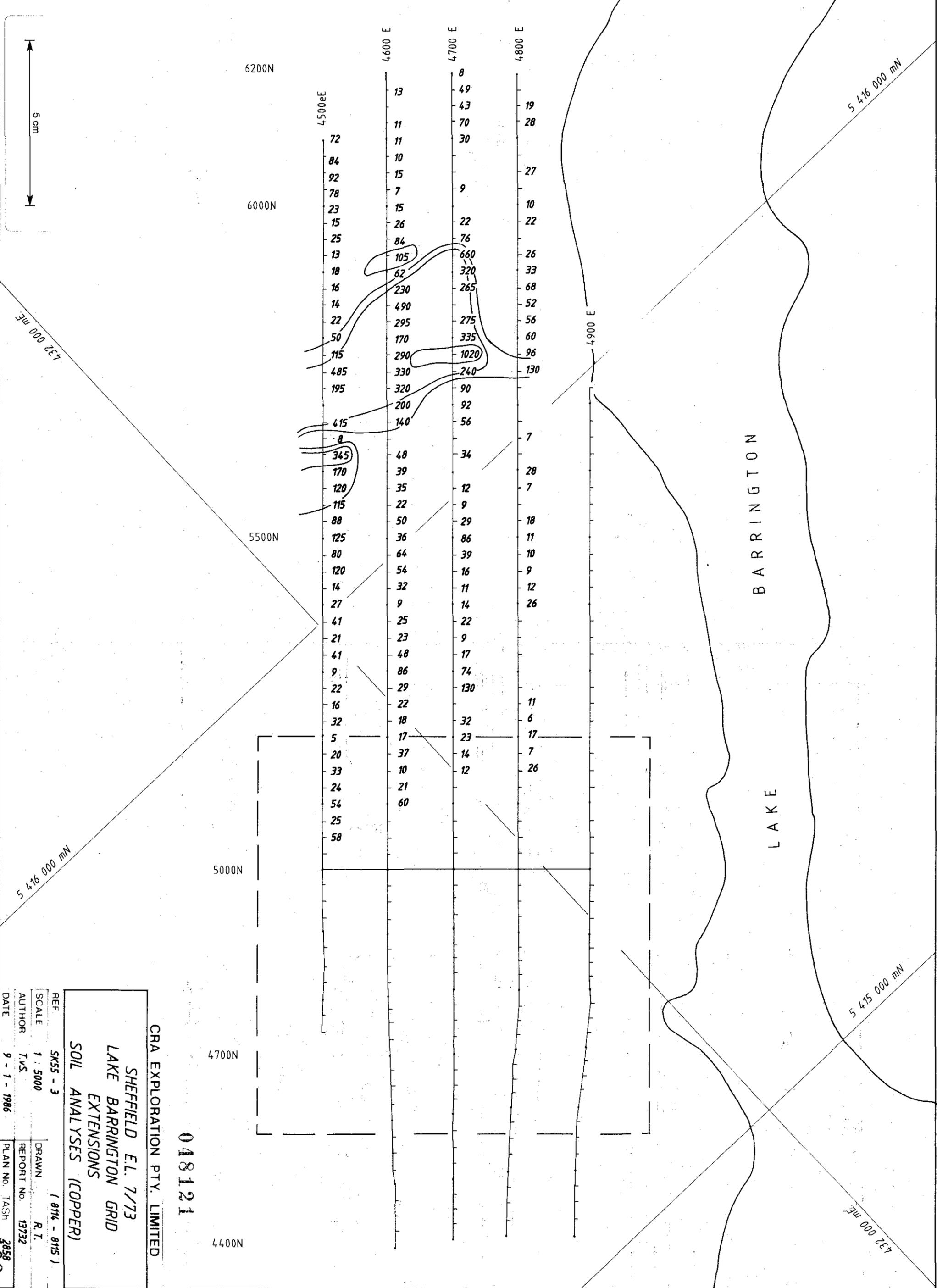
4400N  
 4700N  
 5000N  
 5500N  
 6000N  
 6200N

4500E  
 4600E  
 4700E  
 4800E

22 1198121  
 23 1198163  
 24 64  
 25 65  
 26 66  
 27 67  
 28 68  
 29 69  
 30 70  
 31 71  
 32 72  
 33 73  
 34 74  
 35 75  
 36 76  
 37 77  
 38 78  
 39 79  
 40 80  
 41 81  
 42 82  
 43 83  
 44 84  
 45 85  
 46 86  
 47 87  
 48 88  
 49 89  
 50 90  
 51 91  
 52 92  
 53 93  
 54 94  
 55 95  
 56 96  
 57 97  
 58 98  
 59 99  
 60 200  
 61 972345  
 62 48

4900 E  
 5000 E  
 5100 E  
 5200 E  
 5300 E  
 5400 E  
 5500 E  
 5600 E  
 5700 E  
 5800 E  
 5900 E  
 6000 E  
 6100 E  
 6200 E

5 416 000 MN  
 5 415 000 MN  
 432 000 ME  
 BARRINGTON LAKE



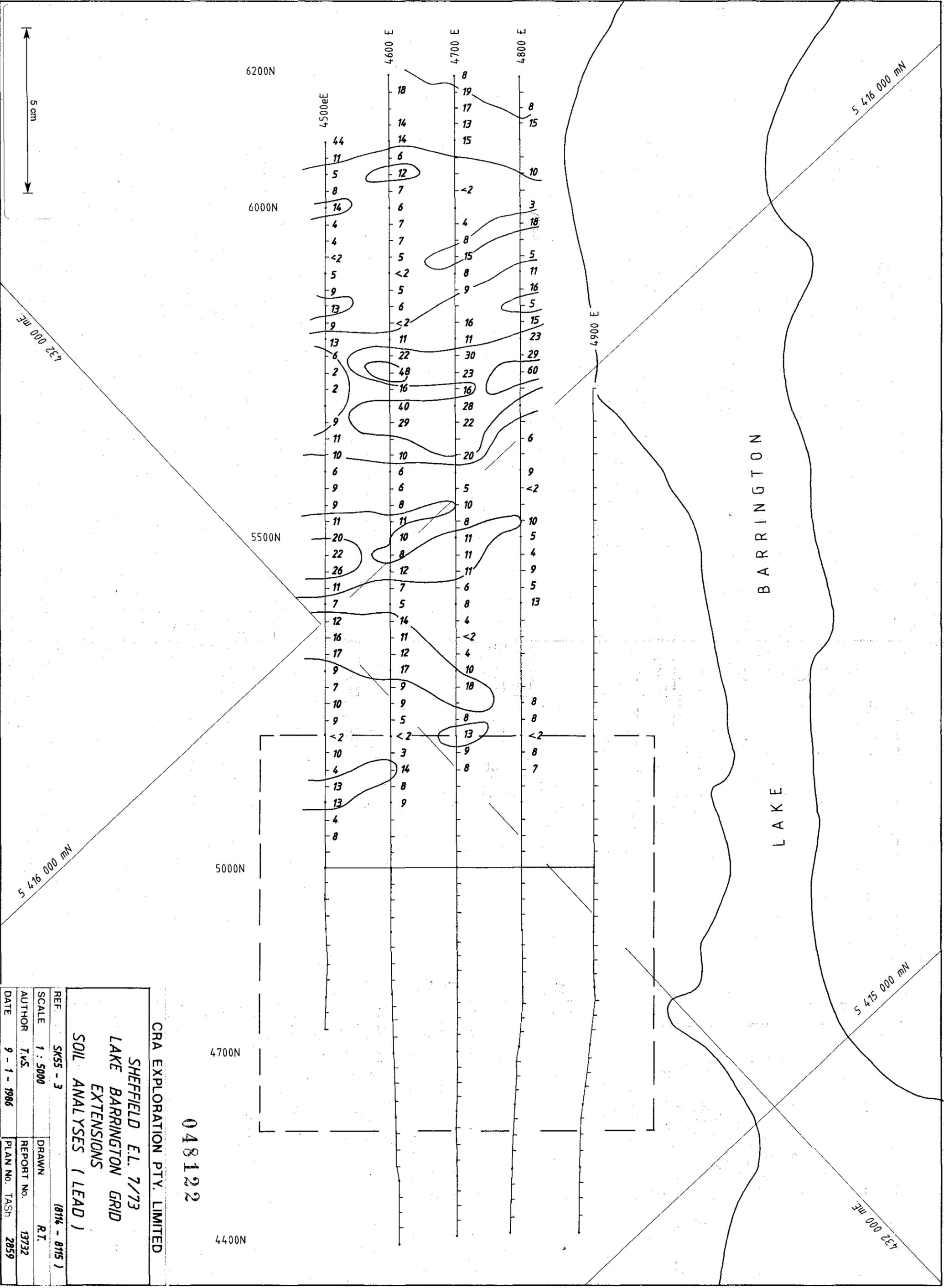
048121

CRA EXPLORATION PTY. LIMITED

SHEFFIELD EL. 7/73  
LAKE BARRINGTON GRID  
EXTENSIONS  
SOIL ANALYSES (COPPER)

REF SK55 - 3 ( 8114 - 8115 )  
SCALE 1 : 5000  
AUTHOR T.V.S.  
DATE 9 - 1 - 1986

DRAWN R.T.  
REPORT NO. 13732  
PLAN NO. TASH 2858



REF: SK55 - 3 (8114 - 8115)  
 SCALE: 1 : 5000  
 AUTHOR: T.V.S.  
 DATE: 9 - 1 - 1986  
 DRAWN: R.T.  
 REPORT NO.: 13732  
 PLAN NO.: TASH 2859

CRA EXPLORATION PTY. LIMITED

SHEFFIELD EL. 7/73  
 LAKE BARRINGTON GRID  
 EXTENSIONS  
 SOIL ANALYSES (LEAD)

048122

4400N

4700N

5000N

5500N

6000N

6200N

4500eE

E 4600

E 4700

E 4800

E 4900

432 000 ME

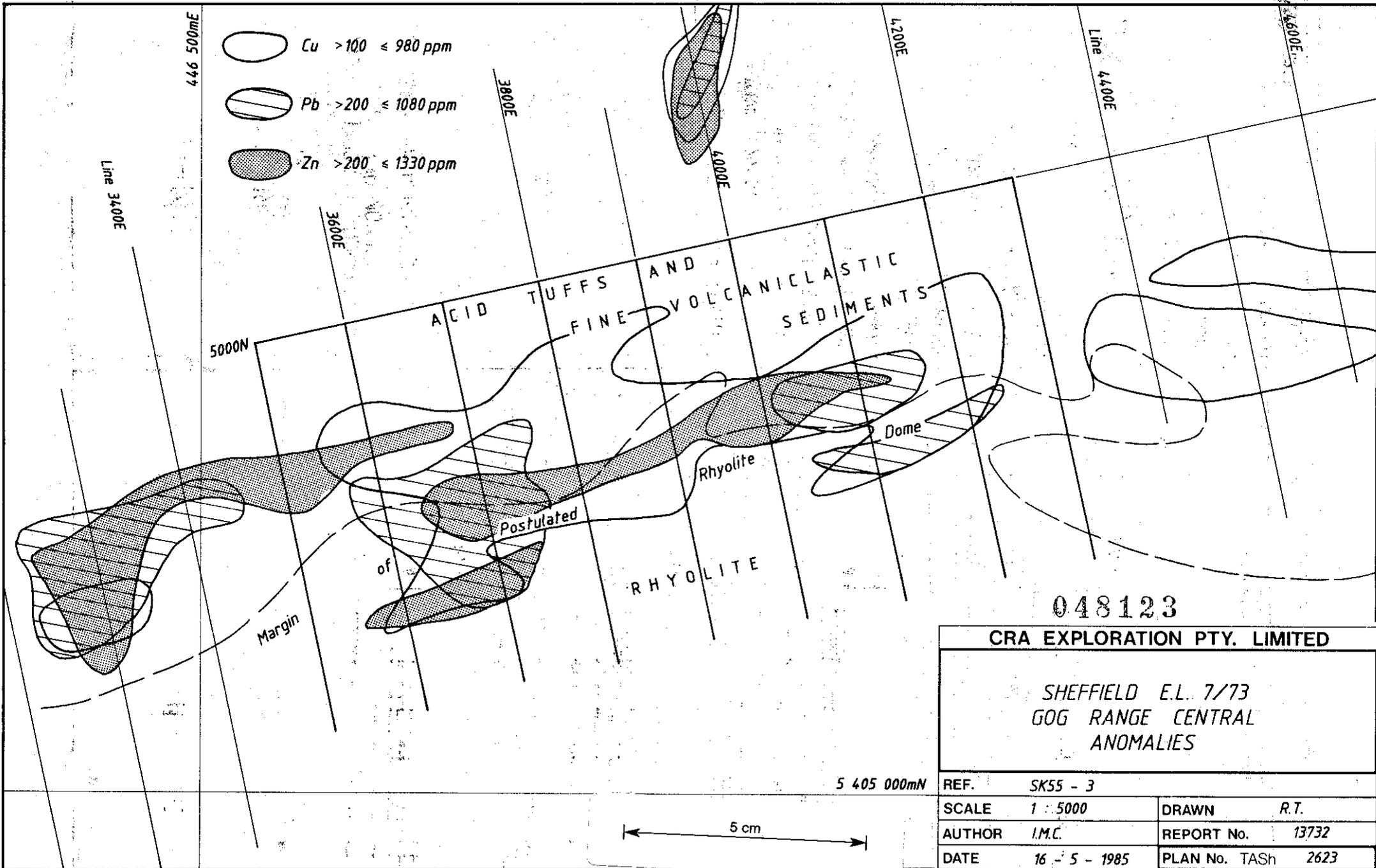
5 416 000 MN

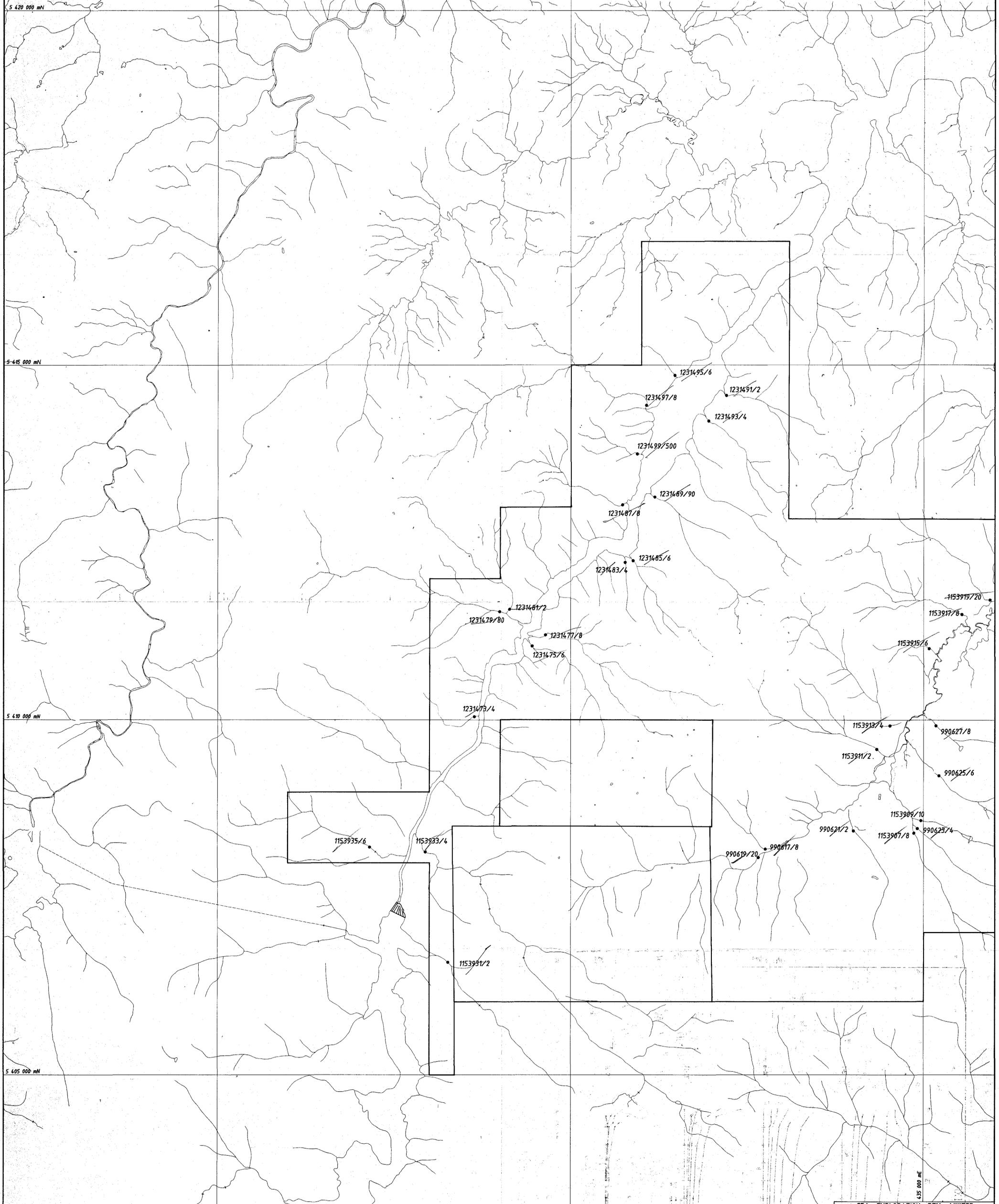
5 415 000 MN

432 000 ME

BARRINGTON LAKE

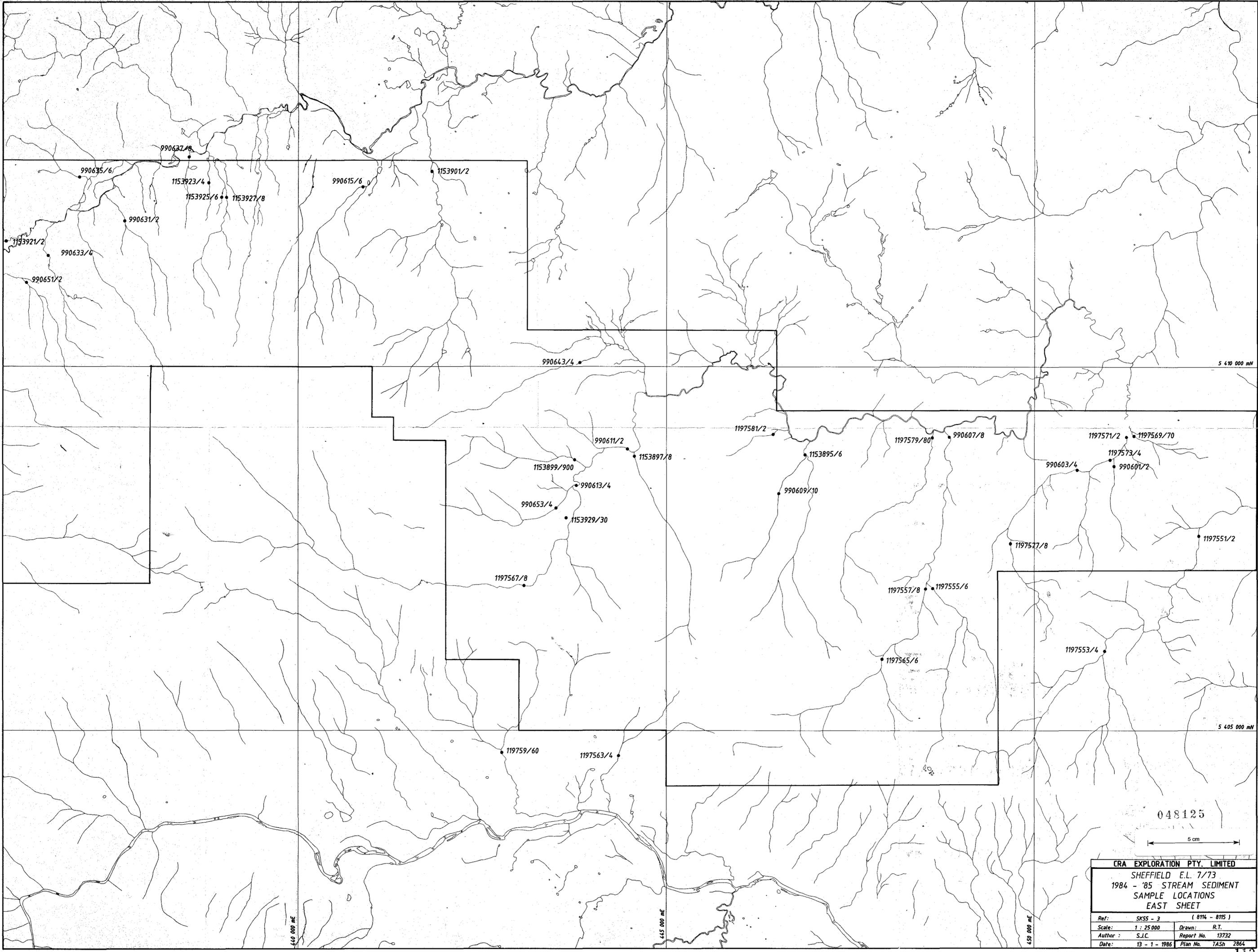
110





CRA EXPLORATION PTY. LIMITED			
SHEFFIELD E.L. 7/73			
1984 - '85 STREAM SEDIMENT			
SAMPLE LOCATIONS			
WEST SHEET			
Ref:	SK55 - 3	( 814 - 815 )	
Scale:	1 : 25 000	Drawn:	R.T.
Author:	S.J.C.	Report No.	13732
Date:	13 - 1 - 1986	Plan No.	TASB - 2863

DAS 12



048125

5 cm

CRA EXPLORATION PTY. LIMITED	
SHEFFIELD E.L. 7/73	
1984 - '85 STREAM SEDIMENT	
SAMPLE LOCATIONS	
EAST SHEET	
Ref:	SK55 - 3 ( 8114 - 8115 )
Scale:	1 : 25 000 Drawn: R.T.
Author :	S.J.C. Report No. 13732
Date:	13 - 1 - 1986 Plan No. TASH 2864