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SUMMARY

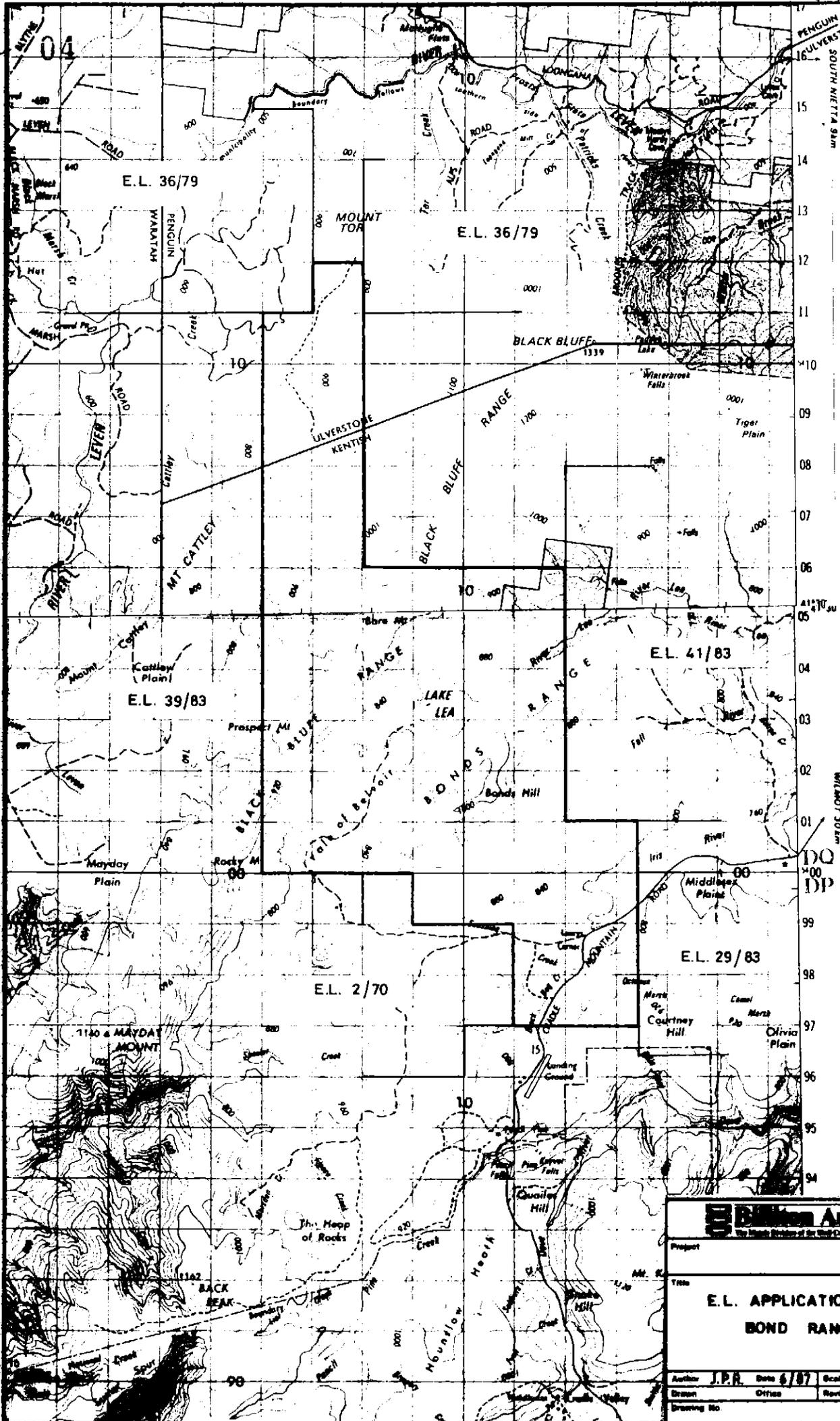
Exploration licence 47/87 was granted to The Shell Company of Australia on 22nd January 1988 for a period of 12 months. This report details exploration completed during this period by Billiton Australia, the Metals Division of The Shell Company of Australia.

The licence is situated in the northern portion of the Mt. Read volcanic arc in an area between the locally defined Dundas and Fossey Mountain Troughs. Much of the licence is covered by post Cambrian quartzite, conglomerate and basalt, but in the south eastern corner, Cambrian rhyo-dacitic intrusives and felsic volcanoclastics crop out.

Exploration was initiated by a stream sediment survey in which results indicated an area of marginal gold anomalism within the intrusive body. Follow up work confirmed this anomaly but did not enhance the prospectivity of the area.

The extensive thick Ordovician and Tertiary cover within the licence area necessitates expensive remote exploration methods and it is considered that there is insufficient evidence to support such a programme. It is therefore recommended that the licence be relinquished.

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Dillon Australia
The Land Division of the Survey Corporation of Australia Limited

| | | | |
|---|-----------|---------|------|
| Project | | | |
| Title | | | |
| E.L. APPLICATION AREA BOND RANGE | | | |
| Author | J.P.R. | Date | 6/87 |
| Scale | 1:100 000 | | |
| Drawn | Office | Revised | Date |
| Drawing No. | Fig. No. | | |

1. INTRODUCTION

This report details results of exploration completed by Billiton Australia within exploration licence 47/87 during the 12 month period from 22nd January 1988 to 21st January 1989. It is the first and final exploration report as the licence is recommended for relinquishment.

2. LOCATION & ACCESS

The prospect is located 55kms south west of Devonport and is centred on Lake Lea, Bonds Range, Black Bluff Range. (Fig. 1). The Cradle Link Road is currently being constructed through the south eastern corner of the licence and a narrow track leads from this road to Lake Lea. An HEC transmission line transects the lower third of the licence and limited access is possible along this route.

3. LAND TENURE

Exploration licence 47/87 of 55 sq kms was granted to The Shell Company of Australia Limited for a period of 12 months ending on the 21st January 1989. The tenement comprises 42.1 sq kms Crown Land, 12.7 sq kms Private Land and does not cover any pre existing mining tenements.

4. REGIONAL SETTING

The licence is situated at the northern extremity of the Dundas Trough where the Cambrian sequence trends in a north-easterly direction. Extensive Tertiary basalt cover (40%) and Ordovician conglomerate (40%) obscures much of the underlying Cambrian geology and therefore interpretation is extremely difficult. (Fig. 2). The exposed portion of the Cambrian sequence consists of equal proportions of fine grained silicified and sericitized volcanoclastic ash and Late Cambrian coarse grained granitoids. The sequence dips moderately (55-60°) to the north east but a facing direction has not been established. Open folding of the Ordovician sequence along north east trending axes is apparent from exposures in road cuts, and Tertiary basalt is predominant in synclinal keels.

5. PREVIOUS EXPLORATION

Early exploration by Pickands Mather (1968) and Tasminex (1973-74) was of a superfluous nature (reporting was virtually non-existent) although one diamond hole (log not found) was drilled by Tasminex.

During 1974-75, Union Oil carried out regional stream sediment sampling, mapping and reconnaissance IP, but it was not until 1977 that a committed programme by Geopeko (as manager) and Union Oil commenced. Geopeko carried out a regional stream

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sediment survey from which two prospects within the current licence area emerged, Mariner I and II. A number of exploration methods was employed to delineate a gold anomalous area and a base metal anomaly, viz. gridding, soil sampling, mapping, ground magnetics, S.P., I.P., VLF E.M.

The focus of exploration changed in 1979 from a VMS base metal search to one of tin-tungsten and during this period, gridding, magnetics, soil geochemistry and mapping was carried out on Mariner I, amongst other prospects. A Dighem survey in 1980 identified several anomalous responses outside the current licence area and in 1983, the entire licence was relinquished after unsuccessful efforts to locate economic mineralization.

Renison Goldfields in 1983-85 pegged the area and carried out a comprehensive compilation of previous work together with geological mapping to identify the nature of Cambrian inliers within the folded Ordovician sequence. Relinquishment of a portion of the licence resulted from this work.

Since November 1985, the area has remained vacant and was pegged by Billiton on 16th June, 1987, subsequently granted on 22nd January 1988.

6. EXPLORATION COMPLETED

A basic exploration programme has been completed within the licence in the search for both volcanogenic massive sulphides and auriferous quartz vein stockworks.

A topographic base plan has been prepared (Fig. 3) onto which exploration results have been compiled. Work completed during the reporting period has included:

- Stream sediment sampling: Two different samples were collected from a total of 10 sites: a 5-6kg, -5mm bulk cyanide leach sample, and a 1kg, -80# sample. A further 11 follow up samples were collected. The BCL samples were assayed for Au only, while the -80# samples were assayed for Au Cu Zn Ag Pb As Ba.
- Gridding: a total of 5.4kms of gridding was completed over the Mariner II anomaly area.
- Auger soil sampling: a total of 158 C horizon soil samples were collected from the Mariner II grid, and assayed for Au (Fire Assay), Cu Zn Ag (AAS), Pb As Ba (XRF). Sampling was carried out at 25 metre intervals along the seven cross lines.
- Geological mapping: the gridded area was mapped and selective rock chip sampling (10 samples) completed.

- Ground Magnetics: the gridded area was magnetically surveyed using G856 digital enhanced memory magnetometers and results plotted in stacked profile form. A basic interpretation of these results was completed.

7. EXPLORATION RESULTS

7.1 Stream Sediment Survey

At each sample site (10 original, 11 follow up) two samples were collected: a 5-6kg -5mm sample from non-trap sites and a 1kg -2mm sample (later dried and sieved to -80#) from a trap site. The former sample was treated with a cyanide solution to dissolve any non-refractory gold and an aliquot from this solution was added to fine zinc powder. The precipitate was analysed by AAS and an assay later recalculated to parts per billion gold. The -80# sample was assayed by conventional AAS and XRF techniques primarily to act as an indicator element sample with the BCL sample. Results of this survey are presented in Appendix 1 and Figs. 2, 4.

Results of interest of the stream sediment survey are as follows:

| <u>Site</u> | <u>Strongly Anomalous</u> (>97.5% of pop ⁿ) | <u>Weakly Anomalous</u> (>67% of pop ⁿ) |
|-------------|--|--|
| 52/4 | 3.1ppb Au 270ppm Zn 2ppm Ag 1400ppm Pb 58ppm As | 590ppm Ba |
| 52/5 | 1.9ppb Au | 600ppm Ba |
| 52/3 | | 490ppm Ba |
| 52/6 | | 640ppm Ba |

Threshold values are considered to be:

| | |
|----------|--------|
| Au (BCL) | 0.7ppb |
| Zn | 136ppm |
| Ag | 1 ppm |
| Pb | 208ppm |
| As | 21 ppm |
| Ba | 485ppm |

Of the four anomalous sites, only samples 52/4 and 52/5 were considered worthy of follow up. The former drains a previously known prospect of Peko called Mariner I but little follow up by Peko was carried out. The area is partially button grass plains but low hills of Cambrian granite and poorly defined volcanics do crop out. Tertiary basalt is prevalent also.

The latter anomaly (52/5) occurs within the Iris River, and upstream in a small tributary evidence was found of previous gold prospecting. Small pits dug in creek channels suggest an alluvial source, although some quartz reefs were also observed nearby.

Results of the follow up sampling were assessed and confirmed the original anomalies.

Details are as follows:

| <u>Original Sample</u> | <u>Replicate Sample</u> | <u>Follow up Sample</u> |
|---|-------------------------|---|
| 5-1.9ppb Au BCL | 15106-0.4ppb Au BCL | 15101-0.5ppb Au BCL 15155-0.19ppm Au -80# 15102-0.1ppb Au BCL 15103-0.3ppb Au BCL 15104-6.5ppb Au BCL 15105-0.7ppb Au BCL 15107-0.3ppb Au BCL |
| 4-3.1ppb Au BCL 1400ppm Pb 58ppm As 2ppm Ag 270ppm Zn | 15108-17ppb Au BCL | 15109-0.1ppb Au BCL 15110-0.5ppb Au BCL |

Note that it was recognised that sample 52/4 was incorrectly located in the original survey and was in fact taken from an adjacent stream, just outside the licence boundary. Follow up work was therefore carried out on streams within the Bond Range licence.

7.2 Geological Mapping

A small grid was cut over the BCL gold anomaly and mapping carried out (see Fig. 5). Exposure is dismal as much of the area is covered by button grass plains, the remainder being myrtle and ti-tree scrub.

Evidence of previous prospecting was seen on line 10600N, where small pits have been dug in an area of quartz float. The quartz is non-ferruginous and milky in appearance,

typical of late stage fracture fill. Host rocks are quartz feldspar porphyritic granitoids that contain pyrite pseudomorphs. Selected rock chip sampling (Appendix 2) indicated marginally anomalous gold assays from weakly pyritic rhyodacitic porphyry.

No Cambrian volcanics or volcanoclastics were observed within the gridded area although it is probable that the contact of Cambrian granite with the volcanics is close to the Fall River.

7.3 Auger Soil Sampling

175 hand auger C-horizon soil samples were collected at 25 metre intervals along the seven grid lines and 158 were submitted for analysis (see Appendix 3), the remainder being leached and/or predominantly organic material. A basic statistical treatment of the results suggest the following thresholds of anomalism:

| | CU | ZN | AG | AU | PB | AS | BA |
|----------------|-------|--------|------|-------|--------|--------|--------|
| MEAN | 15.61 | 103.53 | 0.14 | 0.02 | 81.09 | 13.32 | 537.97 |
| MAX. VALUE | 66 | 630 | 1 | 0.29 | 480 | 640 | 1000 |
| MIN. VALUE | 3 | 17 | 0.05 | 0.005 | 20 | 1 | 170 |
| STD. DEVIATION | 9.28 | 77.63 | 0.28 | 0.03 | 74.14 | 50.18 | 176.65 |
| MEAN + 1 STD | 24.90 | 181.17 | 0.42 | 0.05 | 155.23 | 63.51 | 714.63 |
| MEAN + 2 STD | 34.18 | 258.80 | 0.70 | 0.08 | 229.36 | 113.69 | 891.28 |

Compilation of these results suggests a moderately well defined mineral zonation. A 300m ellipsoidal gold cluster (max. 0.29ppm Au) occurs in the general area where white buck quartz float has been mapped and where previous small scale alluvial workings occur. To the north-east and overlapping the gold ellipse, a 300m x 150m lead zone is evident (max. 380ppm Pb). Again to the north a distinct copper ellipse (400m x 200m) occurs with maximum Cu 66ppm. Barium shows some preference to localize south west of the gold anomaly and has a maximum value of 1000ppm Ba. (see Fig. 6).

7.4 Aero and Ground Magnetics

An enlargement of the Department of Mines aeromagnetic contour data over part of the licence area (Fig. 7) indicates the presence of a discrete 500 metre diameter anomaly of approximately 800 nanotesla magnitude. At surface the anomaly corresponds to scattered outcrop of Tertiary basalt immediately south of Fall River and the Mariner II grid. The geophysical character of this anomaly needs to be evaluated to determine the likelihood of a source other than Tertiary basalt.

Stacked profiles of ground magnetic data (Fig. 8) have provided little in the way of useful mapping data. No consistent trends are apparent and noisy data on the northern lines is of dubious value.

8. CONCLUSIONS AND RECOMMENDATIONS

An initial stream sediment survey has highlighted an area of mildly anomalous gold values within a Cambrian rhyodacitic intrusive in the south east corner of the prospect. Follow up sampling, gridding, soil sampling, mapping, rock chip sampling has confirmed the geochemical anomalism but has not enhanced the prospectivity of the area.

Future work could address the extent of the Cambrian volcanoclastic sequence in the extreme south east corner of the licence in addition to the nature of isolated inliers of acid volcanics that crop out within the folded Ordovician sequence. Also, magnetic modelling of a bullseye aeromagnetic anomaly may provide a drill target if it is considered that there is potential for magnetite skarn or pyrrhotite hosted tin mineralization.

However, in view of the limited potential recognised from a first pass programme for either volcanogenic massive sulphide mineralization or quartz vein stockwork gold mineralization it is recommended that no further exploration be carried out and the licence relinquished.

APPENDIX 1

Stream Sediment Survey Results

COMLABS SERVICES PTY. LTD.

305 South Road, Mile End South, South Australia 5031 Telephone (08) 435722 Telex LABCOM AAB9323 Facsimile No (08) 234 0321



NATA REGISTERED No 1526

OUR REF: Mr. Jeff Randell
Billiton Australia Ltd
YOUR REF: 30 Mersey Main Rd
Spreyton
DEVONPORT
TAS 7310 Australia

File
1) LD52
2) LD53
3) LD55

JOB NUMBER: COM8AD0302

Your Reference: 11622/LD53/JPR

Date Received: 3-FEB-1988

Turnaround 21 days

Date Relayed: 24-FEB-1988

Date Reported: 24-FEB-1988

Number of Samples: 84

Report Comprising: Cover Sheet
Pages 1 to 4

Comments:

(B.C.L. SAMPLES)

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| Type | Recipient | Location | Date | Copies |
|------|-----------|----------|------|--------|
| | | | | |

Approved Signature:

for

Harry Fishman

Deputy Managing Director.

CLASSIC COMLABS LTD

(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



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Job: COM8AD0302
O/N: 11622/LD53/JPR

ANALYTICAL REPORT

| SAMPLE | Au |
|------------|-----|
| LD52-4C 02 | 0.1 |
| LD52-4C 03 | 0.2 |
| LD52-4C 04 | 3.1 |
| LD52-4C 05 | 1.9 |
| LD52-4C 06 | 0.2 |
| LD52-4C 07 | 0.1 |
| LD52-4C 08 | 0.1 |
| LD52-4C 09 | 0.2 |
| LD52-4C 10 | 0.2 |

UNITS ppb
SCHEME AAS5D



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Job: COM8AD0302

O/N: 11622/LD53/JPR

ANALYTICAL REPORT

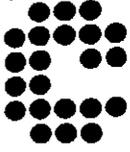
SAMPLE Au

LD52-4C 01 0.2

UNITS ppb
SCHEME AAS5D

698020
File

000 19



COMLABS SYSTEMS & DESIGNS PTY. LTD.

305 South Road, Mile End South, South Australia 5031 Telephone (08) 43 5722 Telex LABCOM AAB9323 Facsimile No. (08) 234 0321

① LD53
② LD52
③ LD55



NATA REGISTERED No. 1520

Mr. David Hall
Billiton Australia Ltd
30 Mersey Main Rd
Spreyton
DEVONPORT
TAS 7310 Australia

OUR REF

YOUR REF

JOB NUMBER: 8AD0557
Your Reference: 11623/LD55/JPR

Date Received: 24-FEB-1988 Turnaround 9 days
Date Relayed: 4-MAR-1988
Date Reported: 4-MAR-1988

Number of Samples: 109

Report Comprising: Cover Sheet
Pages 1 to 11

Comments:

- 80# SAMPLES

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)

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|------|-----------|-----------|----------|--------|
| CC | Shell | Devonport | 4-MAR-88 | 1 |

Approved Signature:

for


Harry Fishman
Deputy Managing Director.
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(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



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O/N: 11623/LD55/JPR

ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|------------|--------|--------|--------|--------|----|-----|----|
| LD52-4S 1 | <0.01 | -- | -- | -- | 18 | 68 | <1 |
| LD52-4S 2 | <0.01 | -- | -- | -- | 14 | 115 | <1 |
| LD52-4S 3 | <0.01 | -- | -- | -- | 5 | 96 | <1 |
| LD52-4S 4 | <0.01 | -- | -- | -- | 7 | 270 | 2 |
| LD52-4S 5 | <0.01 | -- | -- | -- | 4 | 64 | <1 |
| LD52-4S 6 | <0.01 | <0.01 | <0.01 | -- | 2 | 32 | <1 |
| LD52-4S 7 | <0.01 | -- | -- | -- | 2 | 4 | <1 |
| LD52-4S 8 | <0.01 | -- | -- | -- | 3 | 10 | <1 |
| LD52-4S 9 | <0.01 | -- | -- | -- | 12 | 19 | <1 |
| LD52-4S 10 | <0.01 | -- | -- | -- | 8 | 34 | <1 |

| | | | | | | | |
|--------|------|------|------|------|------|------|------|
| UNITS | ppm |
| SCHEME | FAS1 | FAS1 | FAS1 | FAS1 | AAS1 | AAS1 | AAS3 |



Job: 8A00557
 O/N: 11623/LD55/JPR

ANALYTICAL REPORT

| SAMPLE | Pb | As | Ba |
|------------|------|----|-----|
| LD52-4S 1 | 9 | 3 | 105 |
| LD52-4S 2 | 22 | 8 | 240 |
| LD52-4S 3 | 52 | 3 | 490 |
| LD52-4S 4 | 1400 | 58 | 590 |
| LD52-4S 5 | 86 | 8 | 600 |
| LD52-4S 6 | 70 | <2 | 640 |
| LD52-4S 7 | 9 | <2 | 30 |
| LD52-4S 8 | 32 | 13 | 105 |
| LD52-4S 9 | 82 | 12 | 115 |
| LD52-4S 10 | 20 | <2 | 230 |

UNITS ppm ppm ppm
 SCHEME XRF1 XRF1 XRF1

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Administration Officer
Billiton Australia Ltd
30 Mersey Main Rd
Spreyton
DEVONPORT
TAS 7310 Australia

File
1) LD53
2) LD52

JOB NUMBER: 8AD1291
Your Reference: 11627/LD53/JPR
Date Received: 27-APR-1988 Turnaround 15 days
Date Relayed: 12-MAY-1988
Date Reported: 12-MAY-1988

Number of Samples: 72

Report Comprising: Cover Sheet
Pages 1 to 6

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)
Type Recipient Location Date Copies

FOLLOW UP SAMPLES
(B.C.L) 15101-10 } LD52
(-80#) 15155-62 }

Approved Signature:

for

Harry Fishman
Deputy Managing Director.
CLASSIC COMLABS LTD

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00 23

Job: 8AD1291

O/N: 11627/LD53/JPR

ANALYTICAL REPORT

| SAMPLE | Au |
|--------|-----|
| 15101 | 0.5 |
| 15102 | 0.1 |
| 15103 | 0.3 |
| 15104 | 6.5 |
| 15105 | 0.7 |
| 15106 | 0.4 |
| 15107 | 0.3 |
| 15108 | 17 |
| 15109 | 0.1 |
| 15110 | 0.5 |

UNITS ppb
SCHEME AAS5D



0 24

Job: 8AD1291

O/N: 11627/LD53/JPR

ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|----------|----------|----------|----------|----------|----------|----------|
| 15155 | 0.19 | 0.37 | 0.10 | 0.10 | 4 | 22 | <1 |
| 15156 | <0.01 | -- | -- | -- | 4 | 74 | <1 |
| UNITS SCHEME | ppm FAS1 | ppm FAS1 | ppm FAS1 | ppm FAS1 | ppm AAS1 | ppm AAS1 | ppm AAS3 |



0 25

Job: 8AD1291
O/N: 11627/LD53/JPR

ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------|--------|--------|--------|--------|----|-----|----|
| 15157 | 0.01 | -- | -- | -- | 10 | 72 | <1 |
| 15158 | 0.01 | -- | -- | -- | 9 | 105 | <1 |
| 15159 | <0.01 | <0.01 | <0.01 | -- | 8 | 420 | <1 |
| 15160 | <0.01 | -- | -- | -- | 5 | 74 | <1 |
| 15161 | 0.04 | 0.04 | 0.03 | -- | 18 | 170 | <1 |
| 15162 | 0.01 | -- | -- | -- | 36 | 180 | <1 |

| UNITS SCHEME | ppm FAS1 | ppm FAS1 | ppm FAS1 | ppm FAS1 | ppm AAS1 | ppm AAS1 | ppm AAS3 |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|

698027



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26

Job: 8AD1281
O/N: 11627/LD53/JPR

ANALYTICAL REPORT

| SAMPLE | Pb | As | Ba |
|--------|----|----|----|
|--------|----|----|----|

| | | | |
|-------|----|---|-----|
| 15155 | 38 | 2 | 420 |
|-------|----|---|-----|

| | | | |
|-------|----|----|-----|
| 15156 | 70 | <2 | 720 |
|-------|----|----|-----|

| | | | |
|--------|------|------|------|
| UNITS | ppm | ppm | ppm |
| SCHEME | XRF1 | XRF1 | XRF1 |



ANALYTICAL REPORT

0. 27

| SAMPLE | Pb | As | Ba |
|--------|-----|----|------|
| 15157 | 38 | <2 | 360 |
| 15158 | 200 | 4 | 820 |
| 15159 | 230 | 6 | 1880 |
| 15160 | 82 | <2 | 630 |
| 15161 | 30 | <2 | 270 |
| 15162 | 56 | 9 | 320 |

| UNITS | ppm | ppm | ppm |
|--------|------|------|------|
| SCHEME | XRF1 | XRF1 | XRF1 |

APPENDIX 2
Rock Chip Sampling Results



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Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

File
1) LD52
2) LD53
3) LD55
Rock chips

Mr. David Hall
Billiton Australia Ltd
P.O. Box
Devenport
TAS 7310 Australia

JOB NUMBER: 8AD3152

Your Reference: 11637/LD52/JPR

Date Received: 26-SEP-1988 Turnaround 4 days
Date Relayed: 30-SEP-1988
Date Reported: 30-SEP-1988

Number of Samples: 18 Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample for Analysis.

Report Comprising: Cover Sheet
Pages 1 to 2

Comments:

| Report Dist'n Type | Recipient | Location | Date | Magnetic Media (MM) Copies |
|--------------------|----------------|-----------|-------------|----------------------------|
| MM | Mr. David Hall | Devenport | 30-SEP-1988 | 1 |

Approved Signature:

for

[Handwritten Signature]
Harry Fishman
Managing Director.
CLASSIC COMLABS LTD
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Job: 8AD3152

O/N: 11637/LD52/JPR

30

ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|-----------------|------------|------------|------------|------------|-------------|-------------|-------------|
| 16020 | <0.01 | -- | -- | -- | 4 | 3 | <1 |
| 16021 | <0.01 | -- | -- | -- | 3 | <2 | <1 |
| 16022 | <0.01 | -- | -- | -- | 5 | 38 | <1 |
| 16023 | <0.01 | -- | -- | -- | 4 | 14 | <1 |
| 16024 | <0.01 | -- | -- | -- | 4 | 2 | <1 |
| 16025 | <0.01 | -- | -- | -- | 3 | <2 | <1 |
| 16026 | 0.11 | 0.11 | 0.10 | -- | 4 | 32 | <1 |
| 16027 | <0.01 | -- | -- | -- | 5 | 18 | <1 |
| 16028 | 0.20 | 0.19 | 0.21 | -- | 5 | 34 | <1 |
| 16029 | <0.01 | -- | -- | -- | 2 | 145 | <1 |
| UNITS SCHEME | ppm FA1 | ppm FA1 | ppm FA1 | ppm FA1 | ppm AAS1 | ppm AAS1 | ppm AAS2 |

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Job: 8AD3152
O/N: 11637/LD52/JPR

ANALYTICAL REPORT

31

| SAMPLE | Pb | As | Ba |
|--------|------|------|------|
| 16020 | 4 | 20 | 20 |
| 16021 | 5 | 7 | 15 |
| 16022 | 40 | 10 | 380 |
| 16023 | 7 | 9 | 300 |
| 16024 | <2 | 7 | 15 |
| 16025 | 6 | 6 | 10 |
| 16026 | 62 | 590 | 145 |
| 16027 | <2 | 11 | 10 |
| 16028 | 54 | 11 | 830 |
| 16029 | 48 | 7 | 980 |
| UNITS | ppm | ppm | ppm |
| SCHEME | XRF1 | XRF1 | XRF1 |

APPENDIX 3

Auger Soil Sampling Results

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*File
LD52
Auger.*

Mr. David Hall
Billiton Australia Ltd
P.O. Box 860
DEVONPORT
TAS 7310 Australia

JOB NUMBER: 8AD3042

Your Reference: 11636/LD52/JPR

Date Received: 16-SEP-1988

Turnaround 11 days

Date Relayed: 27-SEP-1988

Date Reported: 27-SEP-1988

Number of Samples: 158

Report Analyte Codes

N.A. - Not Analysed.

L.N.R. - Listed But Not Received.

I.S. - Insufficient Sample for Analysis.

Report Comprising: Cover Sheet
Pages 1 to 14

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)

| Type | Recipient | Location | Date | Copies |
|------|----------------|-----------|-------------|--------|
| MM | Mr. David Hall | Davenport | 27-SEP-1988 | 1 |

Approved Signature:

for

Harry Fishman

Managing Director.

CLASSIC COMLABS LTD

(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.

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Job: 8AD3042

O/N: 11636/LD52/JPR

ANALYTICAL REPORT

| 34 SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|------------|------------|------------|------------|-------------|-------------|-------------|
| | ppm FA1 | ppm FA1 | ppm FA1 | ppm FA1 | ppm AAS1 | ppm AAS1 | ppm AAS2 |
| 10000N 9700 | <0.01 | <0.01 | <0.01 | 0.02 | 10 | 66 | <1 |
| 10000N 9725 | <0.01 | -- | -- | -- | 10 | 54 | <1 |
| 10000N 9750 | 0.02 | -- | -- | -- | 14 | 40 | 1 |
| 10000N 9775 | 0.02 | -- | -- | -- | 11 | 66 | <1 |
| 10000N 9800 | <0.01 | -- | -- | -- | 10 | 76 | <1 |
| 10000N 9825 | <0.01 | -- | -- | -- | 14 | 125 | <1 |
| 10000N 9850 | <0.01 | -- | -- | -- | 9 | 100 | <1 |
| 10000N 9875 | 0.02 | -- | -- | -- | 9 | 105 | <1 |
| 10000N 9900 | <0.01 | -- | -- | -- | 8 | 54 | <1 |
| 10000N 9925 | 0.01 | -- | -- | -- | 20 | 460 | <1 |
| 10000N 9950 | 0.01 | -- | -- | -- | 12 | 120 | <1 |
| 10000N 9975 | 0.03 | -- | -- | -- | 11 | 66 | <1 |
| 10000N/10025 | <0.01 | -- | -- | -- | 28 | 72 | <1 |
| 10000N/10050 | 0.01 | -- | -- | -- | 34 | 90 | 1 |
| 10000N/10100 | <0.01 | -- | -- | -- | 19 | 96 | 1 |
| 10000N/10125 | 0.02 | 0.03 | <0.01 | -- | 14 | 70 | 1 |
| 10000N/10200 | 0.04 | -- | -- | -- | 12 | 100 | 1 |
| 10000N/10275 | 0.01 | 0.03 | <0.01 | <0.01 | 14 | 62 | <1 |
| 10000N/10300 | <0.01 | -- | -- | -- | 28 | 58 | <1 |
| 10200N/09725 | <0.01 | -- | -- | -- | 7 | 54 | <1 |
| 10200N/09750 | 0.02 | -- | -- | -- | 9 | 96 | <1 |
| 10200N/09775 | 0.03 | 0.04 | 0.02 | -- | 10 | 630 | <1 |
| 10200N/09800 | <0.01 | -- | -- | -- | 8 | 52 | <1 |
| 10200N/09825 | 0.01 | -- | -- | -- | 9 | 84 | <1 |
| 10200N/09850 | <0.01 | -- | -- | -- | 11 | 98 | <1 |

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Job: 8AD3042
 O/N: 11636/LD52/JPR

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ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|----|-----|----|
| 10200N/09875 | <0.01 | -- | -- | -- | 18 | 82 | <1 |
| 10200N/09900 | <0.01 | -- | -- | -- | 13 | 70 | <1 |
| 10200N/09925 | <0.01 | -- | -- | -- | 11 | 40 | <1 |
| 10200N/09950 | 0.02 | -- | -- | -- | 15 | 82 | <1 |
| 10200N/09975 | <0.01 | 0.02 | <0.01 | <0.01 | 11 | 54 | <1 |
| 10200N/10000 | <0.01 | -- | -- | -- | 12 | 70 | <1 |
| 10200N/10025 | 0.01 | -- | -- | -- | 9 | 88 | <1 |
| 10200N/10050 | <0.01 | -- | -- | -- | 14 | 46 | <1 |
| 10200N/10075 | 0.01 | -- | -- | -- | 20 | 86 | <1 |
| 10200N/10100 | <0.01 | -- | -- | -- | 15 | 64 | <1 |
| 10200N/10125 | 0.01 | -- | -- | -- | 15 | 50 | <1 |
| 10200N/10150 | <0.01 | -- | -- | -- | 28 | 78 | 1 |
| 10200N/10175 | 0.01 | -- | -- | -- | 10 | 42 | <1 |
| 10200N/10200 | <0.01 | -- | -- | -- | 22 | 68 | 1 |
| 10200N/10225 | <0.01 | <0.01 | 0.01 | -- | 15 | 64 | 1 |
| 10200N/10250 | 0.02 | 0.01 | 0.02 | -- | 12 | 72 | <1 |
| 10400N/09700 | <0.01 | 0.01 | <0.01 | -- | 5 | 64 | <1 |
| 10400N/09725 | 0.01 | -- | -- | -- | 7 | 72 | <1 |
| 10400N/09750 | 0.01 | -- | -- | -- | 7 | 120 | <1 |
| 10400N/09775 | <0.01 | -- | -- | -- | 8 | 82 | <1 |
| 10400N/09800 | 0.29 | 0.43 | 0.13 | 0.30 | 5 | 40 | <1 |
| 10400N/09825 | 0.07 | -- | -- | -- | 13 | 74 | <1 |
| 10400N/09850 | 0.02 | -- | -- | -- | 6 | 70 | <1 |
| 10400N/09875 | 0.01 | -- | -- | -- | 38 | 120 | <1 |
| 10400N/09900 | 0.02 | -- | -- | -- | 11 | 150 | <1 |

| | | | | | | | |
|--------|-----|-----|-----|-----|------|------|------|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| SCHEME | FA1 | FA1 | FA1 | FA1 | AAS1 | AAS1 | AAS2 |

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O/N: 11636/LD52/JPR

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ANALYTICAL REPORT

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|----|-----|----|
| 10400N/09925 | 0.01 | -- | -- | -- | 7 | 52 | <1 |
| 10400N/09975 | 0.04 | -- | -- | -- | 13 | 200 | <1 |
| 10400N/10000 | 0.01 | -- | -- | -- | 9 | 68 | <1 |
| 10400N/10025 | <0.01 | <0.01 | 0.01 | -- | 12 | 60 | <1 |
| 10400N/10050 | 0.14 | 0.24 | 0.02 | 0.17 | 11 | 26 | <1 |
| 10400N/10075 | 0.03 | -- | -- | -- | 11 | 84 | <1 |
| 10400N/10100 | 0.20 | -- | -- | -- | 9 | 24 | <1 |
| 10400N/10150 | 0.01 | -- | -- | -- | 19 | 50 | <1 |
| 10400N/10175 | 0.02 | -- | -- | -- | 36 | 270 | <1 |
| 10400N/10200 | <0.01 | -- | -- | -- | 15 | 150 | <1 |
| 10400N/10225 | <0.01 | -- | -- | -- | 11 | 98 | <1 |
| 10400N/10250 | <0.01 | -- | -- | -- | 10 | 70 | <1 |
| 10400N/10275 | 0.02 | -- | -- | -- | 8 | 56 | <1 |
| 10400N/10300 | <0.01 | -- | -- | -- | 11 | 110 | <1 |
| 10600N/09700 | 0.01 | -- | -- | -- | 7 | 88 | <1 |
| 10600N/09725 | 0.02 | -- | -- | -- | 6 | 32 | <1 |
| 10600N/09750 | 0.03 | -- | -- | -- | 9 | 48 | <1 |
| 10600N/09775 | 0.01 | -- | -- | -- | 9 | 38 | <1 |
| 10600N/09800 | <0.01 | -- | -- | -- | 22 | 64 | <1 |
| 10600N/09825 | 0.01 | -- | -- | -- | 19 | 38 | <1 |
| 10600N/09850 | 0.15 | -- | -- | -- | 8 | 32 | <1 |
| 10600N/09875 | 0.02 | -- | -- | -- | 9 | 115 | <1 |
| 10600N/09900 | 0.04 | -- | -- | -- | 9 | 50 | <1 |
| 10600N/09925 | 0.04 | -- | -- | -- | 8 | 76 | <1 |
| 10600N/09950 | 0.01 | 0.02 | <0.01 | -- | 7 | 48 | <1 |

| | | | | | | | |
|--------|-----|-----|-----|-----|------|------|------|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| SCHEME | FA1 | FA1 | FA1 | FA1 | AAS1 | AAS1 | AAS2 |

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Job: 8AD3042

O/N: 11636/LD52/JPR

ANALYTICAL REPORT

| 37 SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|------|------|------|
| 10600N/10000 | 0.17 | 0.21 | 0.12 | -- | 17 | 130 | <1 |
| 10600N/10050 | 0.02 | -- | -- | -- | 17 | 210 | 1 |
| 10600N/10100 | 0.02 | -- | -- | -- | 19 | 220 | <1 |
| 10600N/10125 | <0.01 | -- | -- | -- | 15 | 110 | <1 |
| 10600N/10150 | 0.02 | -- | -- | -- | 16 | 96 | <1 |
| 10600N/10175 | 0.01 | -- | -- | -- | 11 | 170 | 1 |
| 10600N/10200 | 0.02 | -- | -- | -- | 22 | 145 | <1 |
| 10600N/10225 | <0.01 | -- | -- | -- | 16 | 84 | <1 |
| 10600N/10250 | <0.01 | -- | -- | -- | 12 | 92 | <1 |
| 10600N/10275 | <0.01 | -- | -- | -- | 3 | 17 | <1 |
| 10600N/10300 | <0.01 | -- | -- | -- | 15 | 115 | <1 |
| 10800N/09700 | 0.01 | -- | -- | -- | 20 | 82 | <1 |
| 10800N/09725 | 0.01 | 0.03 | <0.01 | <0.01 | 16 | 100 | <1 |
| 10800N/09750 | <0.01 | -- | -- | -- | 13 | 78 | <1 |
| 10800N/09775 | <0.01 | -- | -- | -- | 11 | 34 | <1 |
| 10800N/09800 | 0.02 | -- | -- | -- | 12 | 44 | <1 |
| 10800N/09825 | <0.01 | -- | -- | -- | 13 | 60 | <1 |
| 10800N/09850 | 0.01 | -- | -- | -- | 11 | 48 | <1 |
| 10800N/09875 | 0.01 | -- | -- | -- | 26 | 96 | <1 |
| 10800N/09900 | 0.01 | 0.03 | <0.01 | <0.01 | 12 | 52 | <1 |
| 10800N/09925 | 0.01 | -- | -- | -- | 14 | 120 | <1 |
| 10800N/09950 | <0.01 | -- | -- | -- | 20 | 74 | <1 |
| 10800N/09975 | <0.01 | -- | -- | -- | 10 | 145 | <1 |
| 10800N/10000 | 0.02 | -- | -- | -- | 7 | 96 | <1 |
| 10800N/10025 | 0.02 | -- | -- | -- | 6 | 72 | <1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| SCHEME | FA1 | FA1 | FA1 | FA1 | AAS1 | AAS1 | AAS2 |



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ANALYTICAL REPORT

38

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|----|-----|----|
| 10800N/10050 | <0.01 | -- | -- | -- | 8 | 160 | <1 |
| 10800N/10075 | 0.01 | -- | -- | -- | 12 | 240 | <1 |
| 10800N/10100 | <0.01 | <0.01 | <0.01 | -- | 30 | 300 | <1 |
| 10800N/10125 | 0.01 | 0.02 | <0.01 | -- | 11 | 125 | <1 |
| 10800N/10150 | 0.02 | -- | -- | -- | 24 | 200 | <1 |
| 10800N/10175 | <0.01 | -- | -- | -- | 10 | 180 | <1 |
| 10800N/10200 | <0.01 | -- | -- | -- | 8 | 100 | <1 |
| 10800N/10225 | 0.01 | -- | -- | -- | 22 | 150 | <1 |
| 10800N/10250 | 0.01 | -- | -- | -- | 18 | 250 | <1 |
| 10800N/10275 | 0.01 | -- | -- | -- | 20 | 155 | <1 |
| 10800N/10300 | <0.01 | 0.01 | 0.01 | <0.01 | 48 | 330 | <1 |
| 11000N/09700 | <0.01 | -- | -- | -- | 13 | 170 | <1 |
| 11000N/09725 | <0.01 | -- | -- | -- | 15 | 140 | <1 |
| 11000N/09750 | <0.01 | -- | -- | -- | 13 | 125 | <1 |
| 11000N/09775 | 0.01 | -- | -- | -- | 11 | 110 | <1 |
| 11000N/09800 | 0.01 | -- | -- | -- | 11 | 82 | <1 |
| 11000N/09825 | 0.01 | -- | -- | -- | 9 | 82 | <1 |
| 11000N/09850 | <0.01 | -- | -- | -- | 11 | 90 | <1 |
| 11000N/09900 | <0.01 | -- | -- | -- | 8 | 68 | <1 |
| 11000N/09925 | 0.02 | 0.03 | 0.04 | <0.01 | 30 | 68 | <1 |
| 11000N/09950 | <0.01 | -- | -- | -- | 12 | 160 | <1 |
| 11000N/09975 | <0.01 | -- | -- | -- | 46 | 230 | <1 |
| 11000N/10025 | <0.01 | <0.01 | <0.01 | -- | 66 | 240 | 1 |
| 11000N/10050 | <0.01 | -- | -- | -- | 9 | 58 | <1 |
| 11000N/10075 | <0.01 | -- | -- | -- | 26 | 115 | <1 |

| UNITS SCHEME | ppm FA1 | ppm FA1 | ppm FA1 | ppm FA1 | ppm AAS1 | ppm AAS1 | ppm AAS2 |
|--------------|---------|---------|---------|---------|----------|----------|----------|
|--------------|---------|---------|---------|---------|----------|----------|----------|



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Job: 8AD3042

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ANALYTICAL REPORT

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| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|----|-----|----|
| 11000N/10100 | <0.01 | -- | -- | -- | 10 | 80 | <1 |
| 11000N/10125 | <0.01 | -- | -- | -- | 11 | 32 | <1 |
| 11000N/10150 | <0.01 | -- | -- | -- | 18 | 50 | <1 |
| 11000N/10175 | <0.01 | -- | -- | -- | 36 | 88 | 1 |
| 11000N/10200 | <0.01 | -- | -- | -- | 40 | 88 | <1 |
| 11000N/10225 | 0.01 | 0.03 | <0.01 | <0.01 | 26 | 76 | 1 |
| 11000N/10250 | 0.01 | -- | -- | -- | 16 | 62 | <1 |
| 11000N/10275 | 0.01 | -- | -- | -- | 15 | 60 | <1 |
| 11000N/10300 | <0.01 | <0.01 | 0.01 | <0.01 | 34 | 110 | 1 |
| 11200N/09700 | 0.01 | -- | -- | -- | 26 | 110 | <1 |
| 11200N/09725 | 0.01 | -- | -- | -- | 30 | 110 | <1 |
| 11200N/09750 | 0.03 | -- | -- | -- | 28 | 200 | 1 |
| 11200N/09775 | 0.02 | -- | -- | -- | 14 | 210 | <1 |
| 11200N/09800 | <0.01 | -- | -- | -- | 22 | 125 | <1 |
| 11200N/09825 | 0.01 | 0.02 | 0.01 | <0.01 | 16 | 92 | <1 |
| 11200N/09850 | 0.01 | -- | -- | -- | 24 | 64 | <1 |
| 11200N/09875 | <0.01 | -- | -- | -- | 44 | 220 | <1 |
| 11200N/09900 | <0.01 | <0.01 | <0.01 | -- | 20 | 36 | <1 |
| 11200N/09950 | 0.01 | -- | -- | -- | 17 | 38 | <1 |
| 11200N/09975 | 0.01 | -- | -- | -- | 9 | 17 | <1 |
| 11200N/10000 | <0.01 | -- | -- | -- | 12 | 34 | <1 |
| 11200N/10025 | 0.01 | -- | -- | -- | 13 | 60 | <1 |
| 11200N/10050 | <0.01 | -- | -- | -- | 13 | 36 | <1 |
| 11200N/10075 | <0.01 | -- | -- | -- | 10 | 48 | <1 |
| 11200N/10100 | <0.01 | <0.01 | 0.01 | <0.01 | 12 | 38 | <1 |

| | | | | | | | |
|--------|-----|-----|-----|-----|------|------|------|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| SCHEME | FA1 | FA1 | FA1 | FA1 | AAS1 | AAS1 | AAS2 |



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ANALYTICAL REPORT

0 40

| SAMPLE | Au Avg | Au Dp1 | Au Dp2 | Au Dp3 | Cu | Zn | Ag |
|--------------|--------|--------|--------|--------|------|------|------|
| 11200N/10125 | <0.01 | -- | -- | -- | 17 | 42 | <1 |
| 11200N/10150 | 0.01 | -- | -- | -- | 30 | 70 | <1 |
| 11200N/10175 | <0.01 | -- | -- | -- | 13 | 195 | <1 |
| 11200N/10200 | <0.01 | -- | -- | -- | 14 | 195 | <1 |
| 11200N/10225 | <0.01 | -- | -- | -- | 15 | 175 | <1 |
| 11200N/10250 | <0.01 | -- | -- | -- | 11 | 165 | <1 |
| 11200N/10275 | <0.01 | <0.01 | 0.02 | <0.01 | 14 | 130 | <1 |
| 11200N/10300 | 0.01 | -- | -- | -- | 16 | 195 | <1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| SCHEME | FA1 | FA1 | FA1 | FA1 | AAS1 | AAS1 | AAS2 |

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ANALYTICAL REPORT

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| SAMPLE | Pb | As | Ba |
|--------------|------|------|------|
| 10000N 9700 | 42 | 13 | 660 |
| 10000N 9725 | 290 | <2 | 900 |
| 10000N 9750 | 40 | 10 | 650 |
| 10000N 9775 | 115 | 8 | 710 |
| 10000N 9800 | 62 | 9 | 640 |
| 10000N 9825 | 50 | 8 | 720 |
| 10000N 9850 | 52 | 12 | 890 |
| 10000N 9875 | 46 | 8 | 840 |
| 10000N 9900 | 40 | 7 | 810 |
| 10000N 9925 | 34 | 9 | 1000 |
| 10000N 9950 | 44 | 7 | 850 |
| 10000N 9975 | 48 | <2 | 740 |
| 10000N/10025 | 60 | 7 | 620 |
| 10000N/10050 | 84 | 14 | 620 |
| 10000N/10100 | 58 | 16 | 740 |
| 10000N/10125 | 50 | 11 | 750 |
| 10000N/10200 | 52 | 5 | 780 |
| 10000N/10275 | 42 | 9 | 470 |
| 10000N/10300 | 44 | 13 | 490 |
| 10200N/09725 | 60 | 5 | 470 |
| 10200N/09750 | 48 | 9 | 470 |
| 10200N/09775 | 48 | 10 | 480 |
| 10200N/09800 | 56 | 12 | 450 |
| 10200N/09825 | 44 | 10 | 560 |
| 10200N/09850 | 84 | 6 | 680 |
| UNITS | ppm | ppm | ppm |
| SCHEME | XRF1 | XRF1 | XRF1 |

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ANALYTICAL REPORT

42

| SAMPLE | Pb | As | Ba |
|--------------|----|----|-----|
| 10200N/09875 | 62 | 9 | 550 |
| 10200N/09900 | 60 | 5 | 600 |
| 10200N/09925 | 42 | 4 | 510 |
| 10200N/09950 | 66 | 11 | 550 |
| 10200N/09975 | 36 | 8 | 560 |
| 10200N/10000 | 42 | 6 | 550 |
| 10200N/10025 | 52 | 3 | 630 |
| 10200N/10050 | 32 | 2 | 560 |
| 10200N/10075 | 64 | 7 | 560 |
| 10200N/10100 | 56 | 9 | 500 |
| 10200N/10125 | 40 | 9 | 450 |
| 10200N/10150 | 76 | 12 | 530 |
| 10200N/10175 | 46 | 7 | 360 |
| 10200N/10200 | 50 | 8 | 570 |
| 10200N/10225 | 48 | 3 | 490 |
| 10200N/10250 | 40 | 6 | 520 |
| 10400N/09700 | 34 | 9 | 750 |
| 10400N/09725 | 40 | 7 | 600 |
| 10400N/09750 | 34 | 3 | 530 |
| 10400N/09775 | 36 | 8 | 590 |
| 10400N/09800 | 36 | 9 | 780 |
| 10400N/09825 | 68 | 8 | 600 |
| 10400N/09850 | 26 | 7 | 780 |
| 10400N/09875 | 68 | 7 | 640 |
| 10400N/09900 | 40 | 6 | 980 |

UNITS ppm ppm ppm
SCHEME XRF1 XRF1 XRF1

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00 43

| SAMPLE | Pb | As | Ba |
|--------------|-----|-----|-----|
| 10400N/09925 | 62 | 7 | 700 |
| 10400N/09975 | 42 | 6 | 930 |
| 10400N/10000 | 50 | 9 | 700 |
| 10400N/10025 | 24 | 13 | 620 |
| 10400N/10050 | 36 | 8 | 480 |
| 10400N/10075 | 42 | 5 | 520 |
| 10400N/10100 | 28 | 8 | 500 |
| 10400N/10150 | 32 | 24 | 300 |
| 10400N/10175 | 280 | 640 | 410 |
| 10400N/10200 | 38 | 14 | 590 |
| 10400N/10225 | 44 | 20 | 670 |
| 10400N/10250 | 76 | 14 | 590 |
| 10400N/10275 | 28 | 10 | 800 |
| 10400N/10300 | 24 | 5 | 630 |
| 10600N/09700 | 50 | 7 | 560 |
| 10600N/09725 | 46 | 7 | 440 |
| 10600N/09750 | 34 | 2 | 510 |
| 10600N/09775 | 48 | 6 | 330 |
| 10600N/09800 | 88 | 12 | 370 |
| 10600N/09825 | 36 | 7 | 500 |
| 10600N/09850 | 20 | 13 | 380 |
| 10600N/09875 | 54 | 10 | 600 |
| 10600N/09900 | 38 | 7 | 440 |
| 10600N/09925 | 54 | 7 | 480 |
| 10600N/09950 | 44 | 15 | 480 |

UNITS
SCHEMEppm
XRF1ppm
XRF1ppm
XRF1



Analytical Laboratories (INC. IN WA.)

305 South Road, Mile End South, South Australia, 5031
 Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

Job: 8AD3042

O/N: 11636/LD52/JPR

ANALYTICAL REPORT

| | SAMPLE | Pb | As | Ba | |
|---|--------|--------------|------|------|-----|
| 0 | 44 | 10600N/10000 | 120 | 7 | 730 |
| | | 10600N/10050 | 260 | 9 | 640 |
| | | 10600N/10100 | 350 | 14 | 660 |
| | | 10600N/10125 | 135 | 6 | 430 |
| | | 10600N/10150 | 98 | 6 | 600 |
| | | 10600N/10175 | 78 | 10 | 880 |
| | | 10600N/10200 | 135 | 10 | 600 |
| | | 10600N/10225 | 70 | 8 | 660 |
| | | 10600N/10250 | 44 | 15 | 400 |
| | | 10600N/10275 | 74 | 13 | 500 |
| | | 10600N/10300 | 84 | 4 | 600 |
| | | 10800N/09700 | 42 | 9 | 460 |
| | | 10800N/09725 | 74 | 12 | 600 |
| | | 10800N/09750 | 72 | 12 | 490 |
| | | 10800N/09775 | 26 | 9 | 510 |
| | | 10800N/09800 | 40 | 7 | 360 |
| | | 10800N/09825 | 46 | 10 | 420 |
| | | 10800N/09850 | 46 | 8 | 320 |
| | | 10800N/09875 | 480 | 9 | 500 |
| | | 10800N/09900 | 42 | 14 | 400 |
| | | 10800N/09925 | 135 | 10 | 530 |
| | | 10800N/09950 | 145 | 11 | 380 |
| | | 10800N/09975 | 48 | 12 | 510 |
| | | 10800N/10000 | 42 | 11 | 570 |
| | | 10800N/10025 | 76 | 13 | 560 |
| | UNITS | ppm | ppm | ppm | |
| | SCHEME | XRF1 | XRF1 | XRF1 | |



ANALYTICAL REPORT

00 45

| SAMPLE | Pb | As | Ba |
|--------------|-----|----|-----|
| 10800N/10050 | 50 | 12 | 790 |
| 10800N/10075 | 125 | 10 | 600 |
| 10800N/10100 | 380 | 12 | 600 |
| 10800N/10125 | 190 | 7 | 450 |
| 10800N/10150 | 190 | 8 | 350 |
| 10800N/10175 | 76 | 11 | 700 |
| 10800N/10200 | 74 | 10 | 320 |
| 10800N/10225 | 150 | 10 | 460 |
| 10800N/10250 | 150 | 9 | 640 |
| 10800N/10275 | 370 | 7 | 680 |
| 10800N/10300 | 190 | 15 | 540 |
| 11000N/09700 | 60 | 8 | 740 |
| 11000N/09725 | 64 | 9 | 520 |
| 11000N/09750 | 48 | 6 | 710 |
| 11000N/09775 | 44 | 8 | 430 |
| 11000N/09800 | 46 | <2 | 400 |
| 11000N/09825 | 58 | 8 | 560 |
| 11000N/09850 | 54 | 10 | 530 |
| 11000N/09900 | 52 | 2 | 450 |
| 11000N/09925 | 80 | 11 | 370 |
| 11000N/09950 | 110 | 8 | 730 |
| 11000N/09975 | 195 | 8 | 440 |
| 11000N/10025 | 76 | 15 | 490 |
| 11000N/10050 | 30 | 13 | 440 |
| 11000N/10075 | 28 | 28 | 180 |

| | | | |
|--------|------|------|------|
| UNITS | ppm | ppm | ppm |
| SCHEME | XRF1 | XRF1 | XRF1 |



305 South Road, Mile End South, South Australia, 5031
 Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

Job: 8AD3042
 O/N: 11636/LD52/JPR

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ANALYTICAL REPORT

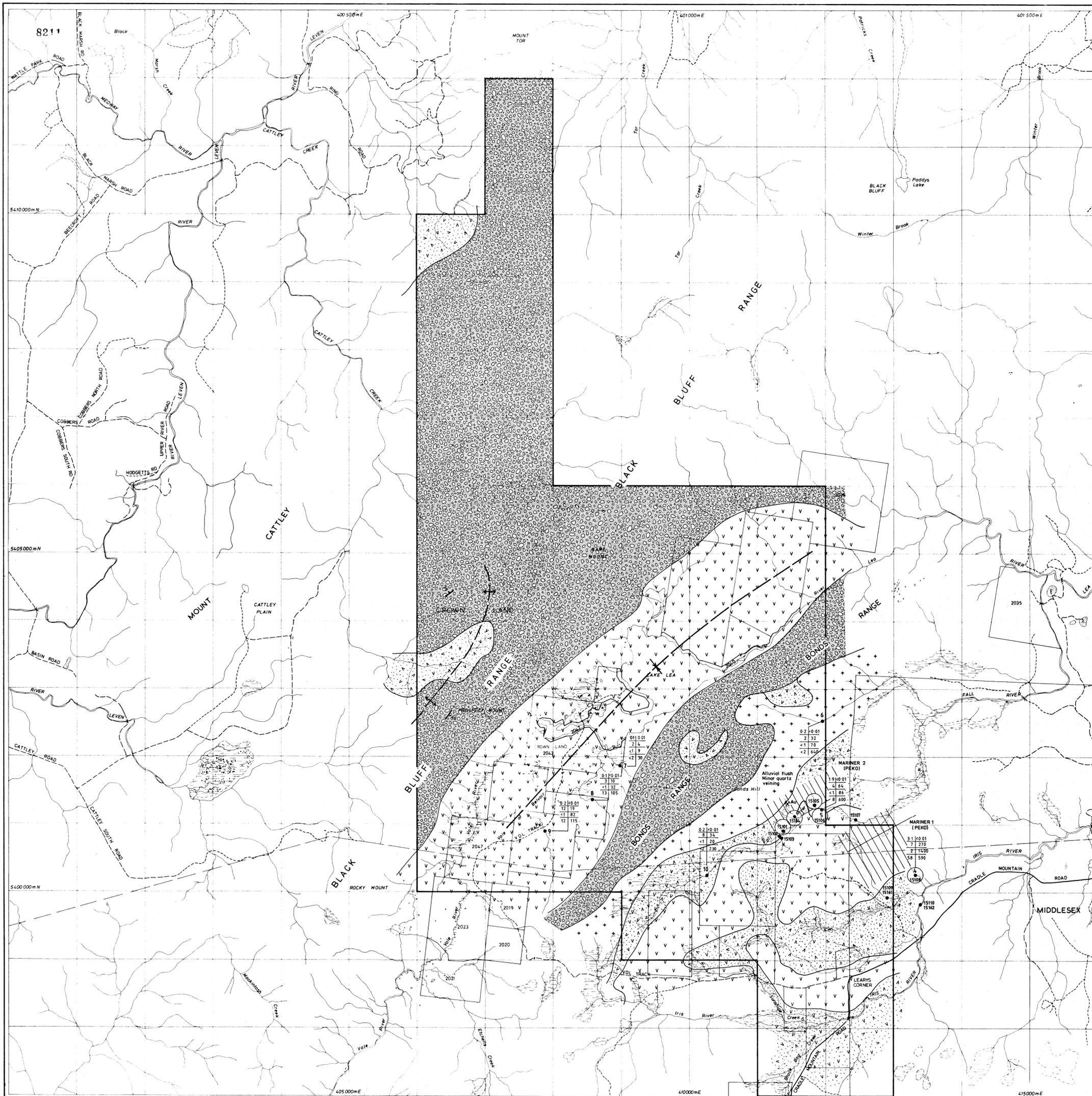
| SAMPLE | Pb | As | Ba |
|--------------|----------|----------|----------|
| 11000N/10100 | 32 | 22 | 185 |
| 11000N/10125 | 34 | 17 | 185 |
| 11000N/10150 | 46 | 17 | 170 |
| 11000N/10175 | 66 | 10 | 210 |
| 11000N/10200 | 52 | 8 | 220 |
| 11000N/10225 | 56 | 16 | 250 |
| 11000N/10250 | 70 | 10 | 200 |
| 11000N/10275 | 72 | 10 | 220 |
| 11000N/10300 | 54 | 11 | 270 |
| 11200N/09700 | 66 | 16 | 290 |
| 11200N/09725 | 74 | 10 | 270 |
| 11200N/09750 | 200 | 17 | 470 |
| 11200N/09775 | 74 | 11 | 650 |
| 11200N/09800 | 140 | 7 | 390 |
| 11200N/09825 | 64 | 8 | 380 |
| 11200N/09850 | 170 | 8 | 470 |
| 11200N/09875 | 300 | 14 | 870 |
| 11200N/09900 | 50 | 7 | 810 |
| 11200N/09950 | 54 | 13 | 380 |
| 11200N/09975 | 42 | 8 | 310 |
| 11200N/10000 | 46 | 8 | 250 |
| 11200N/10025 | 66 | 7 | 340 |
| 11200N/10050 | 46 | 9 | 310 |
| 11200N/10075 | 34 | 11 | 320 |
| 11200N/10100 | 42 | 5 | 290 |
| UNITS SCHEME | ppm XRF1 | ppm XRF1 | ppm XRF1 |



ANALYTICAL REPORT

(47

| SAMPLE | Pb | As | Ba |
|-----------------|-------------|-------------|-------------|
| 11200N/10125 | 42 | 10 | 260 |
| 11200N/10150 | 58 | 8 | 350 |
| 11200N/10175 | 135 | 4 | 640 |
| 11200N/10200 | 130 | 12 | 720 |
| 11200N/10225 | 190 | 11 | 640 |
| 11200N/10250 | 130 | 11 | 800 |
| 11200N/10275 | 240 | 4 | 560 |
| 11200N/10300 | 180 | <2 | 630 |
| UNITS SCHEME | ppm XRF1 | ppm XRF1 | ppm XRF1 |



ANOMALOUS RESULTS

| SITE | STRONGLY ANOMALOUS ($< 97.5\%$ of pop ⁿ) | WEAKLY ANOMALOUS ($< 67\%$ of pop ⁿ) |
|------|--|--|
| 52/4 | 3.1ppb Au 270ppm Zn 2ppm Ag 1400ppm Pb 58ppm As | 590ppm Ba |
| 52/5 | 1.9ppb Au | 600ppm Ba |
| 52/3 | | 4.90ppm Ba |
| 52/6 | | 640ppm Ba |

THRESHOLD VALUES

| | | | |
|----------|--------|----|--------|
| Au (BCL) | 0.7ppb | Pb | 208ppm |
| Zn | 136ppm | As | 21 ppm |
| Ag | 1 ppm | Ba | 485ppm |

LEGEND

- E.L. Boundary
- Reserve Boundary
- Property Boundary with land number
- Public road
- Gravel road with bridge
- Vehicular track with gate
- Walking track
- Power transmission line
- Wet area
- Creek river with waterfall
- Tertiary basalt
- Ordovician conglomerate and sandstone
- Cambrian granite
- Cambrian acidic volcanoclastic
- Stream sediment sample
- BCL - 80 #

| | |
|--------|----|
| BCL Au | Au |
| Cu | Zn |
| Ag | Pb |
| As | Ba |

5 cm

88-2898

Billiton Australia
The Metals Division of the Shell Company of Australia Limited

Project: **BOND RANGE**

Title: **GEOLOGICAL SETTING AND BULK CYANIDE LEACH RESULTS**

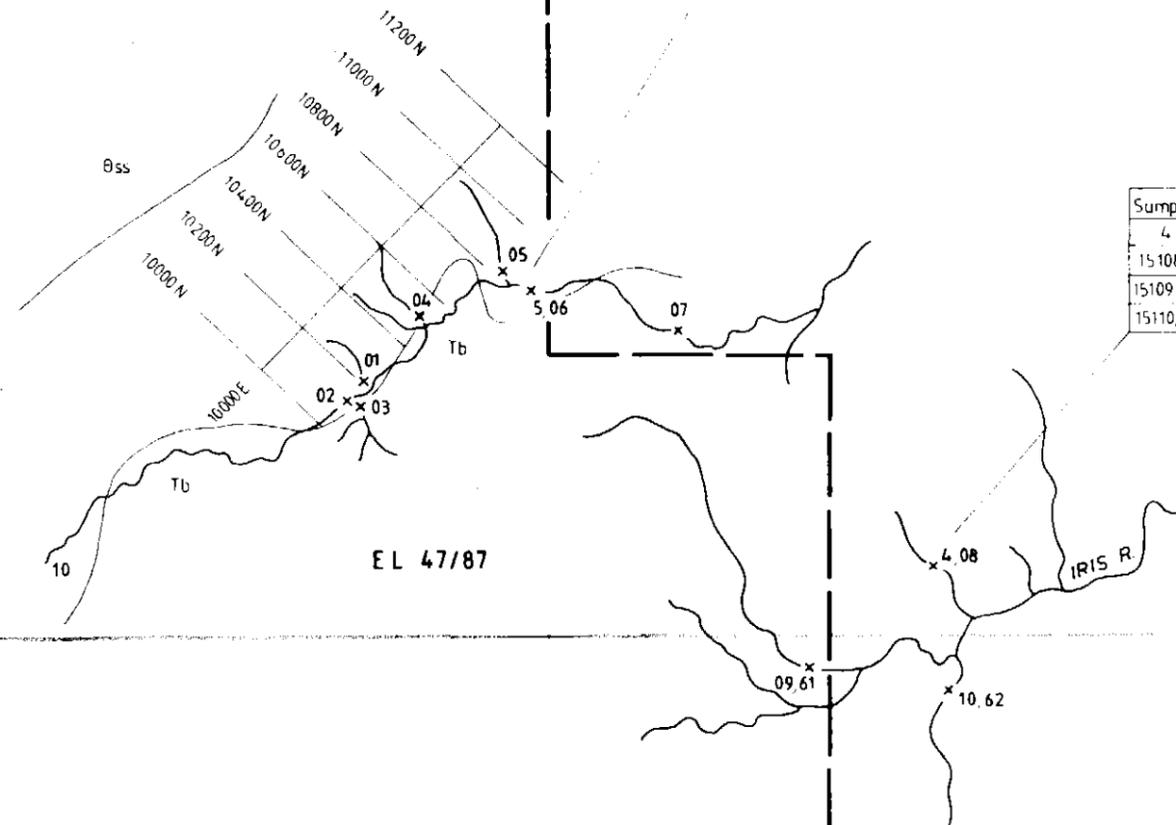
| | | | | | |
|-----------|--------|-------------|---------------|---------|----------|
| Author | J.P.R. | Dept. | TAS | Scale | 1:25,000 |
| Drawn | G.H. | Date | 4.88 | Revised | Date |
| Checked | Date | S'ced | Date | | |
| Sheet No. | | Drawing No. | D.L.D. 52/002 | | |

698049

8212

| Sample | BCL Au | Au | Cu | Pb | Zn | Ag | As | Ba |
|----------|--------|-------|----|-----|-----|----|----|------|
| 5 | 0.9 | | | | | | | 600 |
| 15106 | 0.4 | | | | | | | |
| 15101.55 | 0.5 | 0.19 | 4 | 38 | 22 | <1 | 2 | 420 |
| 15102.56 | 0.1 | <0.01 | 4 | 70 | 74 | <1 | <2 | 720 |
| 15103.57 | 0.3 | <0.01 | 10 | 38 | 72 | <1 | <2 | 360 |
| 15104.58 | 6.5 | <0.01 | 9 | 200 | 105 | <1 | 4 | 420 |
| 15105.59 | 0.7 | <0.01 | 8 | 230 | 20 | <1 | 6 | 1880 |
| 15107.60 | 0.3 | <0.01 | 5 | 82 | 74 | <1 | <2 | 630 |

| Sample | BCL Au | Au | Cu | Pb | Zn | Ag | As | Ba |
|----------|--------|------|----|-------|-----|----|----|-----|
| 4 | 3.1 | | | 14.00 | 270 | | 58 | |
| 15108 | 17 | | | | | | | |
| 15109.61 | 0.1 | 0.04 | 18 | 30 | 170 | <1 | <2 | 270 |
| 15110.62 | 0.5 | 0.01 | 36 | 56 | 180 | <1 | 9 | 320 |



5 cm

88 - 2898

| | | |
|---|---------------------------|------------|
|  Billiton Australia <small>The Metals Division of the Shell Company of Australia Limited</small> | | |
| Project | BOND RANGE | |
| Title | STREAM SEDIMENT FOLLOW UP | |
| Author | JPR | Date 11/88 |
| Scale | 1:25 000 | |
| Drawn | OH | Office TAS |
| Revised | Date | |
| Drawing No. | D/LD 52/004 | Fig No. 4 |

8213

402 000 N

411 000 E

412 000 E

ROCK CHIP SAMPLING

| Sample | Au | Cu | Zn | Ag | Pb | As | Ba |
|--------|-------|----|-----|----|-----|-----|-----|
| 16020 | <0.01 | 4 | 3 | <1 | 4 | 20 | 20 |
| 16021 | <0.01 | 3 | <2 | <1 | 5 | 7 | 15 |
| 16022 | <0.01 | 5 | 38 | <1 | 4.0 | 10 | 380 |
| 16023 | <0.01 | 4 | 14 | <1 | 7 | 9 | 300 |
| 16024 | <0.01 | 4 | 2 | <1 | <2 | 7 | 15 |
| 16025 | <0.01 | 3 | <2 | <1 | 6 | 6 | 10 |
| 16026 | 0.11 | 4 | 32 | <1 | 62 | 590 | 145 |
| 16027 | <0.01 | 5 | 18 | <1 | <2 | 11 | 10 |
| 16028 | 0.20 | 5 | 34 | <1 | 54 | 11 | 830 |
| 16029 | <0.01 | 2 | 145 | <1 | 48 | 7 | 980 |

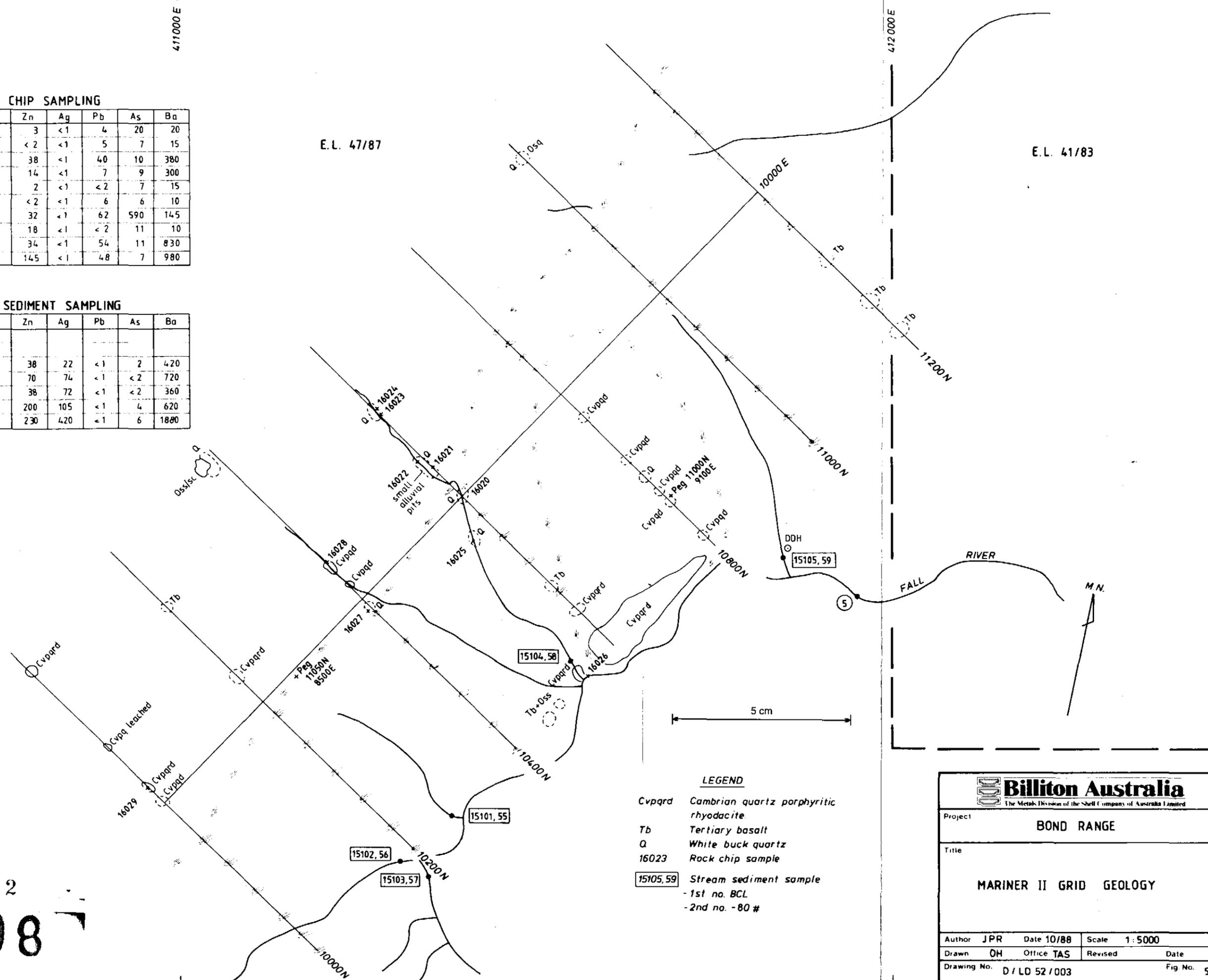
STREAM SEDIMENT SAMPLING

| Sample | BCL Au | Au | Cu | Zn | Ag | Pb | As | Ba |
|----------|--------|-------|----|-----|-----|----|----|------|
| 5 | 1.9 | | | | | | | |
| 15106 | 0.4 | | | | | | | |
| 15101,55 | 0.5 | 0.19 | 4 | 38 | 22 | <1 | 2 | 420 |
| 15102,56 | 0.1 | <0.01 | 4 | 70 | 74 | <1 | <2 | 720 |
| 15103,57 | 0.3 | <0.01 | 10 | 38 | 72 | <1 | <2 | 360 |
| 15104,58 | 6.5 | <0.01 | 9 | 200 | 105 | <1 | 4 | 620 |
| 15105,59 | 0.7 | <0.01 | 8 | 230 | 420 | <1 | 6 | 1880 |

401 000 N

E.L. 47/87

E.L. 41/83



LEGEND

- Cvprqd Cambrian quartz porphyritic rhyodacite
- Tb Tertiary basalt
- Q White buck quartz
- 16023 Rock chip sample
- 15105,59 Stream sediment sample
- 1st no. BCL
- 2nd no. -80 #

698052

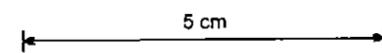
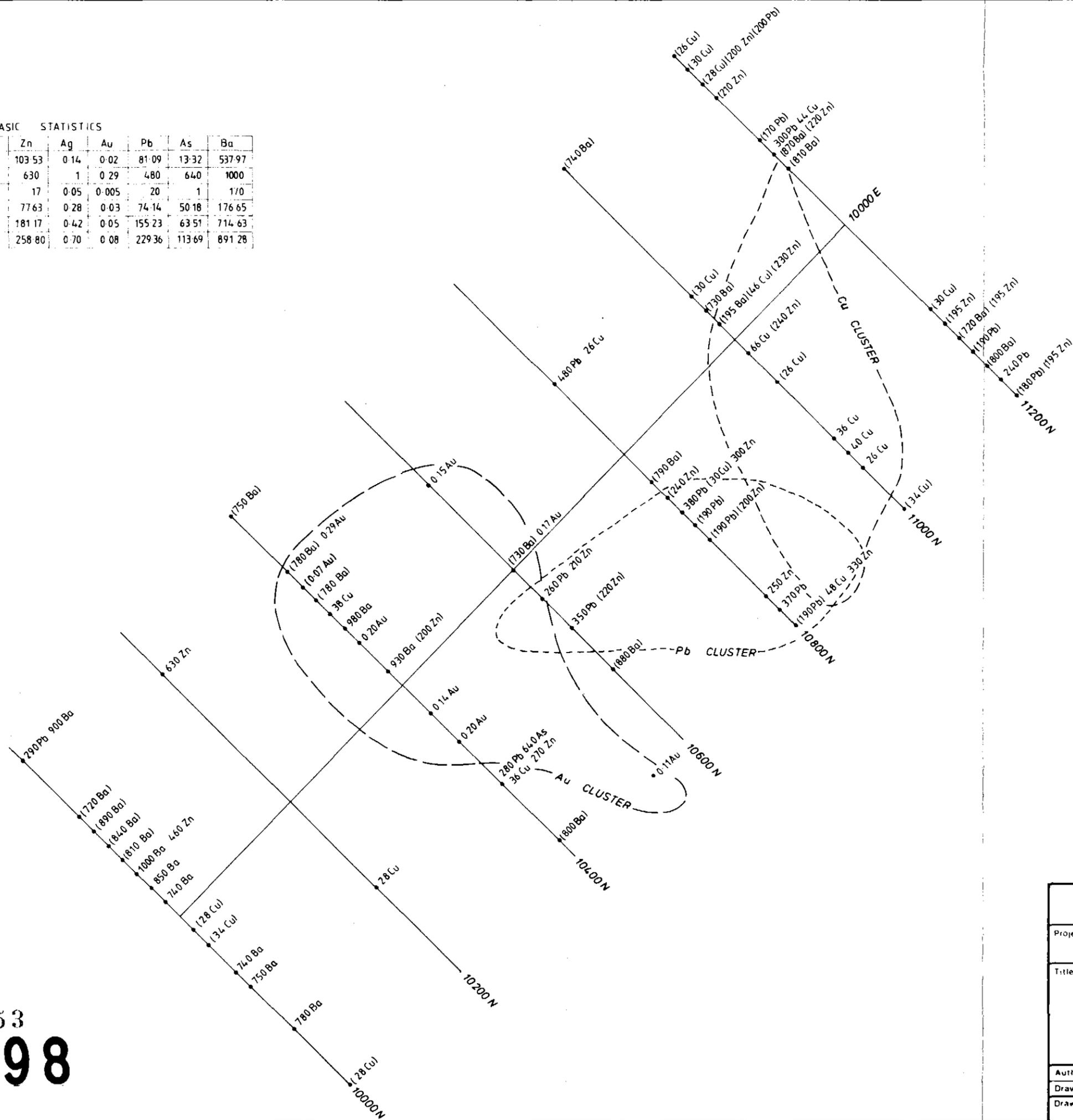
88-2898

| | | | |
|--|-------------|------------|-----------|
| <p>The Metals Division of the Shell Company of Australia Limited</p> | | | |
| Project | | BOND RANGE | |
| Title | | | |
| MARINER II GRID GEOLOGY | | | |
| Author | JPR | Date | 10/88 |
| Scale | 1:5000 | | |
| Drawn | OH | Office | TAS |
| Revised | Date | | |
| Drawing No. | D/LD 52/003 | | Fig No. 5 |

8214

BASIC STATISTICS

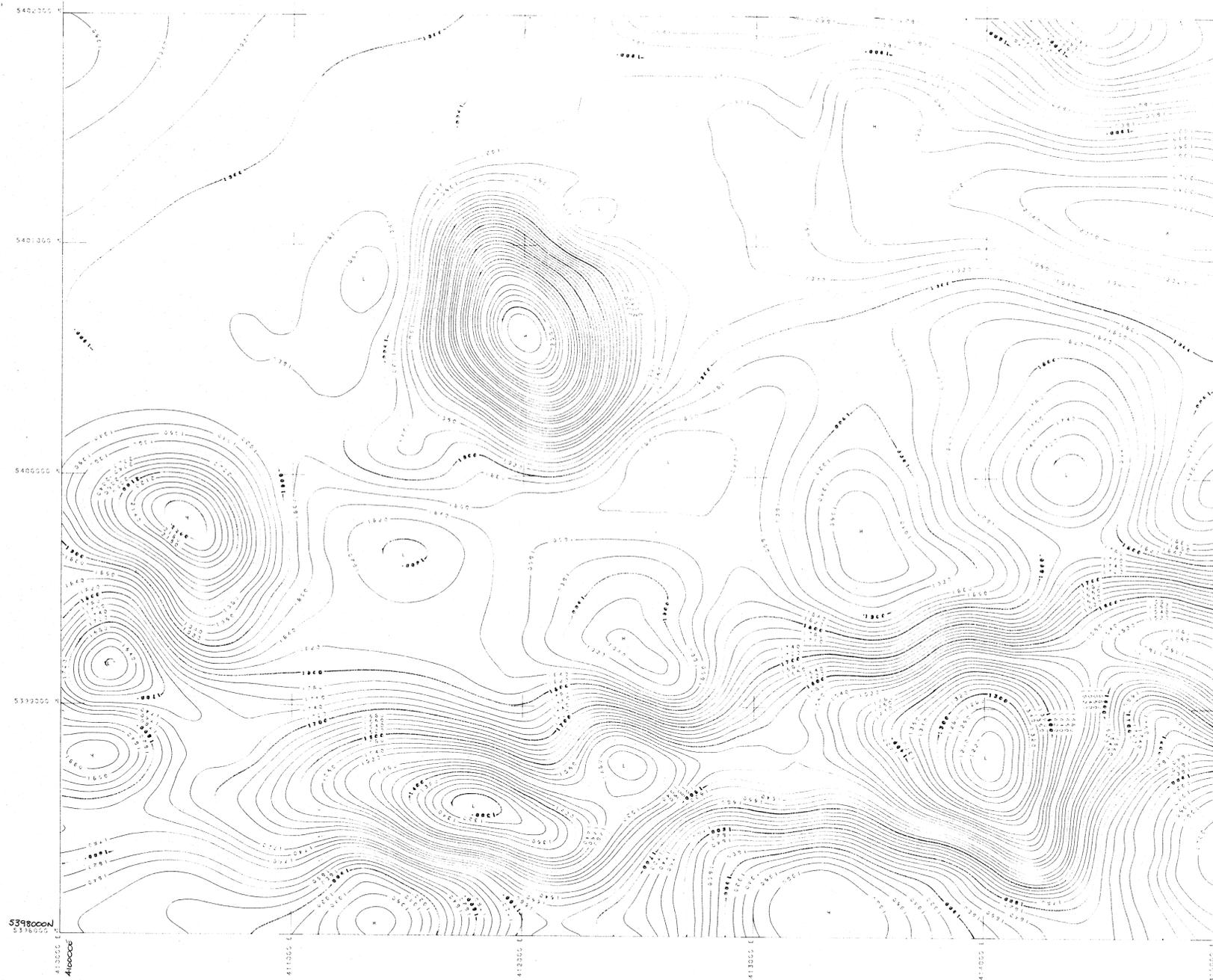
| | Cu | Zn | Ag | Au | Pb | As | Ba |
|--------------------|-------|--------|------|-------|--------|--------|--------|
| MEAN | 15.61 | 103.53 | 0.14 | 0.02 | 81.09 | 13.32 | 537.97 |
| MAX VALUE | 66 | 630 | 1 | 0.29 | 480 | 640 | 1000 |
| MIN VALUE | 3 | 17 | 0.05 | 0.005 | 20 | 1 | 170 |
| STANDARD DEVIATION | 9.28 | 77.63 | 0.28 | 0.03 | 74.14 | 50.18 | 176.65 |
| MEAN + 1 STD | 24.90 | 181.17 | 0.42 | 0.05 | 155.23 | 63.51 | 714.63 |
| MEAN + 2 STD | 34.18 | 258.80 | 0.70 | 0.08 | 229.36 | 113.69 | 891.28 |



LEGEND
 200 Pb Mean + 2 S.D
 (200 Pb) Mean + 1 S.D

698053
88 - 2898

| | | | |
|---|------------|------------|------------|
| Billiton Australia The Metal Division of the Shell Company of Australia Limited | | | |
| Project | | BOND RANGE | |
| Title | | | |
| ANOMALOUS AUGER + ROCK CHIP GEOCHEMISTRY | | | |
| Author | JPR | Date | 10/88 |
| Scale | 1: 5000 | | |
| Drawn | OH | Office | TAS |
| Revised | Date | | |
| Drawing No. | D/LD 52/88 | | Fig. No. 6 |



88-2898



698054

5 cm

| | |
|---|----------------|
| SHELL COMPANY OF AUSTRALIA METALS DIVISION | |
| BOND RANGE, N.W. TAS | |
| AEROMAG SURVEY | |
| TAS MINES DEPT. | |
| CI-20 | |
| MESH-100X100 | |
| SCALE 1 : | 10000 |
| FIG. NO: 7 | REPT. NO: |
| ENCL. NO: | DRG. NO: /1000 |
| DATE: 7/87 | AUTHOR: |
| DRAWN: | OFFICE: AHO |



SHELL COMPANY OF AUSTRALIA
METALS DIVISION
R.O.C.S. - PROTEM

NW TASMANIA
BOND RANGE
GROUND MAGNETICS
50nT/CM, BASE62000
SCALE 1 : 5000

FIG No : 8
DATE : 21/10/88
AUTHOR : RD/D'PORT
OFFICE :
DRAWN : NH/MELB

LEGEND
2x G586

88-2893

5 cm

