WOODCUTTERS MINE

MINE OFFICE:
80km Stuart Highway
via Darwin NT

POSTAL ADDRESS:
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345 George Street
Sydney NSW 2000

POSTAL ADDRESS:
GPO Box 3983
Sydney NSW 2001

Title: RELINQUISHMENT REPORT
EXPLORATION LICENCE
7523
BATCHelor AREA, NORTHERN TERRITORY
31/3/1992 TO 30/3/1994

Project Name: WATERHOUSE

Map Sheets: PINE CREEK SD 52-8 1:250,000

Commodities: COPPER, LEAD, ZINC, GOLD

Author: I.K. BUTLER

Date: 24 JUNE 1994

Volumes: VOLUME 1

Accepted by: [Signature]

Distribution: 1. NT Department of Mines and Energy
2. Woodcutters Mine, NT
3. Posex, Adelaide

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CR 94/407
VOL 1

Report No. 13196
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SUMMARY

The geology of Exploration Licence 7523 comprises Archaean basement (Waterhouse Complex) unconformably overlain by on-lapping Lower Proterozoic metasediments consisting of cyclic arkose and carbonate dominated sequences of Beestons Formation, Celia Dolomite, Crater Formation and Coomalie Dolomite then a dolomitic carbonaceous mudstone sequence of Whites Formation. Outcrops of Carpentarian Tolmer Group sandstones unconformably overlay carbonate lithologies.

A considerable amount of exploration has previously been carried out over the Sargents area. Most of this work was targeted at uranium and base metals. A number of uranium prospects were located. The licence was taken out to explore the area for structurally controlled base metal (Woodcutters type) and gold mineralisation.

Work conducted by Aztec Mining within the relinquished area included literature research, compilation of previous geochemical data, geological reinterpretation, stream sediment and rock sampling.

Streams with anomalous gold were followed up but the source could not be found.
1. **INTRODUCTION**

Exploration Licence 7523 is located 15kms south and southwest of Batchelor on the Batchelor 1:100,000 (5171) map sheet (Figure 1). Access is gained via Camp Creek Road (unsealed) from Adelaide River or south along the old railway line from Batchelor.

The licence is held by Aztec Mining Company Ltd and was taken out to explore the area for structurally controlled base metal (Woodcutters type) and gold mineralisation.

The aim of this report is to outline the work conducted within the relinquished area of the licence.

2. **TENURE**

Exploration Licence 7523 was granted to Aztec Mining Company Limited on 31st March 1992 for a period of six years. The licence comprised 25 graticular blocks and has subsequently been reduced to 13 graticular blocks. (See figure 2)

Aztec Mining was taken over by Poseidon Gold Limited in early 1994.

3. **CONCLUSIONS**

   1. The prospectivity of the basement Waterhouse Complex for base metal and gold mineralisation has been downgraded.
4. **PREVIOUS EXPLORATION**

During 1952, the BMR conducted an airborne radiometric survey of the district (Wood and McCarthy, 1952) and identified the Waterhouse No.2 radiometric anomaly which is located immediately to the north east of EL 7706.

In 1965, the BMR carried out a reconnaissance geological, geochemical and geophysical survey over the area now covered by EL 7706 (Shatwell and Duckworth, 1966). Auger holes were spaced 122m (400 feet) apart along east-west traverses spaced at 732m (2400 feet) intervals. Bottom hole, 'C' horizon samples were collected and assayed for Cu, Pb, Ni, Co, U and P, and holes were radiometrically probed. Electromagnetic and radiometric surveys were also conducted along the regional traverses.

Modern ground exploration of the area commenced in 1970 when the BMR conducted a combined reconnaissance geological, geochemical and radiometric survey in the vicinity of Stapleton. Auger holes were drilled to the "C" horizon on a grid with holes spaced 61 metres (200 feet) apart along traverses at 366 metres (1200 feet) intervals. All samples were assayed for Cu, Pb, Zn and Ni. Maximum values obtained on the current EL 7523 were 870 ppm Ni, 1100 ppm Pb, 310 ppm Zn and 320 ppm Cu. The high Pb value is an isolated occurrence and probably does not represent a significant anomaly. More cohesive Ni anomalies are however evident in the data. Elevated Ni values occur over the Beestons Formation and Celia Dolomite, and also appear to be related to the Middle Proterozoic Tolmer Group/Lower Proterozoic unconformity.

In 1974, the BMR also drilled a 6.4 m stratigraphic hole (RJ 72, Enclosure 1), on EL 7706 as part of a regional stratigraphic drilling program (Johnson et al, 1979). A hard, pink, fine to medium grained quartzite was cored from 6.1 to 6.4m.

Private company exploration of the area commenced in 1971 following the Commonwealth Government release of land from the Rum Jungle Reserve area. Queensland Mines Ltd was granted AP2501 which included the majority of the current EL 7523. Exploration was mainly for uranium and included airborne radiometrics, follow-up reconnaissance ground radiometrics and auger drilling along the inferred Coomalie Dolomite/Whites Formation contact. Some reconnaissance panning for gold and testing for heavy metals by a field geochemistry kit were also undertaken. Three main uranium prospects were identified and followed up however they were all located outside the current licence.

In the early 1970's CRA Exploration Pty Ltd held EL 610 which covered a large area east of the Waterhouse Complex including the eastern side of EL 7523. A regional stream sediment survey was carried out, with samples assayed for U, Pb, Zn, Cu and Ni. Anomalous Ni (37 ppm) was recorded from a stream located near the railway line northwest of "Sargents". Follow-up work concentrated on the Waterhouse uranium and base metal anomalies, which are located to the north of EL 7523.
Uranerz Australia Pty Ltd acquired numerous exploration licences in the region between 1977 and the early 1980’s including EL’s 3194 and 4378 which were located in the western portion of EL 7523. The exploration target was vein-type uranium and base metal deposits associated with the Coomalie Dolomite/Whites Formation contact. Work included airborne and ground magnetics and radiometrics, gridding, geological mapping and electromagnetic surveys. Most work was carried out south of EL 7523 where a number of uranium and base metal prospects were delineated.

At the same time as the Uranerz exploration, Marathon Petroleum Australia Limited were actively exploring the region to the east of the Waterhouse Complex in a joint venture with International Mining Corporation NL (IMC). EL’s 1219 and 2726 were located on the eastern portion of EL 7523. IMC commissioned an airborne magnetic and radiometric survey in 1978. Marathon Petroleum initially conducted interpretation of the airborne data, photo-interpretation, ground radiometric and radon reconnaissance and orientation studies over Rum Jungle Creek South and Waterhouse No. 2. The airborne geophysical anomalies were follow up by ground magnetics, spectrometer surveys and geological mapping. Track-Etch radon surveys were also widely utilised.

Shallow rotary/percussion drilling was carried out in four separate areas on the current EL 7523 all of which were located along the interpreted Coomalie Dolomite/Whites Formation contact zone (shallow <25m) (see Enclosure 1). Low to medium grade uranium mineralisation was found to occur associated with cross faulting or shearing on graphitic shales and chlorite/amphibolite schists in the Whites Formation, at or above the Coomalie Dolomite contact. Drill hole samples were analysed for U, Cu, Pb, Zn, Co, Ba, Au and Th. Slightly anomalous base metals were reported, and anomalous Au (100 ppb) was recorded at the Depot Creek Sandstone/Whites Formation contact, in a hole (13B) located to the northwest of "Sargents".

Mobil Energy Minerals Australia Incorporated acquired EL' 3526 and 2560 in 1982. Both licences covered ground previously held by Marathon east of the Waterhouse Complex. Uranium was the main target, particularly in the Coomalie Dolomite and Whites Formation. Areas of interest were chosen from previous work by Marathon ground magnetic, scintillometer, gravity and electromagnetic traverses were made, followed by limited RAB drilling on EL 3560.

Bottom hole samples from the RAB holes were analysed for Cu, Pb, Zn, Co, Ni, Cr, Th and U and all holes were radiometrically logged. Maximum values of 190 ppm Cu, 150 ppm Pb and 155 ppm Zn were obtained. A coincident gravity, EM and magnetic anomaly was tested with a short diamond drill hole (95.3m) which intersected magnetite quartzite at depth. Half core samples were analysed for Cu, Pb, Zn, Ni, U, Au and Pt with no significant results.

Idemitsu Minerals Aust Pty Ltd held EL 4772 in the mid 1980’s which included the adjoining Waterhouse Complex (Varkey, 1987 and Yokoyama, 1988).
5. GEOLOGY AND MINERALISATION

The Archean Waterhouse Complex underlies a major part of EL 7523. Lithologies of the Waterhouse Complex comprise granite, banded iron formation, schists and gneisses.

On the eastern side of the Waterhouse Complex, quartzite and conglomerate of the Lower Proterozoic Beestons Formation unconformably overlie the basement. Massive crystalline dolomite of the Celia Dolomite overlies the Beestons Formation.

Coarse clastics of the Crater Formation are more widespread and completely surround the Waterhouse Complex. They are overlain by carbonate of the Coomalie Dolomite.

The conformable contact between the carbonaceous dolomitic mudstones of the Whites Formation and the Coomalie Dolomite has been the main focus of exploration in the district as many base metal and uranium prospects occur in the vicinity of this stratigraphic horizon.

The remainder of the Lower Proterozoic stratigraphic sequence comprising the Wildman Siltstone, Koolpin Formation, Gerowie Tuff, Mount Bonnie Formation and the Burrell Creek Formation occurs on the eastern side of the exploration licences.

Unconformably overlying the Lower Proterozoic sediments, particularly the Coomalie Dolomite are the Middle Proterozoic Depot Creek Sandstone Member and the Buckshee Breccia of the Tolmer Group.

Outcrop is generally poor in the north which is mainly covered by surficial Cainozoic laterites and alluvium.

A major fault is interpreted to pass through the central eastern side of the area. Displacement across this fault which trends northeast-southwest in the licence area is east block down.

As discussed in Section 4, several low to medium grade uranium prospects have been located to the east of the Waterhouse Complex. No significant base metal mineralisation has been identified.
6. WORK CARRIED OUT AND RESULTS

Work carried out during years one and two within the relinquished area included:

- comprehensive literature research (see section 4)
- compilation of BMR and company geochemical data
- stream sediment and rock sampling

6.1 STREAM SEDIMENT AND ROCK CHIP SAMPLING

The exploration emphasis within the relinquished area was for gold mineralisation within the basement Waterhouse Complex. A total of 29 BLEG (Bulk Leach Extractable Gold) stream sediment samples were collected. (See Enclosure 1 for location). A 5 kg (-2mm) sample was collected at each site and analysed at AMDEL Darwin for Au using their BLEG 2 method. In addition, the samples were analysed for Cu(1) Pb(2) Zn(1) and As(20) by AAS using the AAS2M method. (See Appendix I for results).

A -425 micron (40#) stream sediment sample was collected at each BLEG site (see Enclosure 1 for location). The samples were analysed at AMDEL, Darwin for Au (0.001) by fire assay (FA3 method) and Cu(1) Pb(2) Zn(1) and As(20) by AAS (AAS2M method) (see Appendix I for results).

A total of fifteen (15) rock chips were collected and analysed at AMDEL, Darwin for Au (0.01) by fire assay (FA1 method) and Cu, Pb, Zn and As by AAS (AAS 2M method). The sample locations are plotted on Enclosure 1 and analytical results are in Appendix I.
7. REFERENCES


Ruxton, B.P., 1961. The testing of electromagnetic anomalies by diamond drilling at Waterhouse No.2 Uranium Prospect, Northern Territory. BMR Record No.1961/161.


Annual Report EL's 7706 and 7523
APPENDIX I

ANALYTICAL RESULTS
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT

Your Reference: 038082 D/S G5009
Our Reference: 2DN0859

Samples Received: 06/08/92
Results Reported: 14/08/92
Number of Samples: 61
Report Pages:
2DN0859A: 1 to 1
2DN0859B: 1 to 1
2DN0859C: 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:

for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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Page 1 of 1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT: Waterhouse

Your Reference: 038122 D/S G5013
Samples Received: 11/08/92
Number of Samples: 56

Our Reference: 2DN0883
Results Reported: 15/08/92
Report Pages:
2DN0883A: 1 to 1
2DN0883B: 1 to 1
2DN0883C: 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL7S23 → -40 Streams
Bleg Rockchip

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:

for
ALAN CIPLY
Manager - Darwin
CLASSIC LABORATORIES
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Bleg
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

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Number of Samples : 21

Results Reported : 14/08/92
Report Pages :
2DN0888A : 1 to 1
2DN0888B : 1 to 1
2DN0888C : 1 to 1

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If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
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L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:
for

ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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Page 1 of 1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

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Number of Samples: 15

Our Reference: 2DN0897
Results Reported: 19/08/92
Report Pages:
2DN0897A: 1 to 1
2DN0897B: 1 to 1
2DN0897C: 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7523 Follow Up Camp
Creek Station

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

-40# Streams
- Blq
- Rockchips

Approved Signature:
for

ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
Woodcutters Mine  
P.M.B. 60  
Winnellie  
N.T. 0821  

ANALYSIS REPORT  

Your Reference : 038082 D/S G5009  
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Number of Samples : 61  

Our Reference : 2DN0859  
Results Reported : 14/08/92  
Report Pages :  
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Report Codes:  
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L.N.R. - Listed But Not Received  
I.S. - Insufficient Sample

Approved Signature:  

for  
ALAN CIPLYS  
Manager - Darwin  
CLASSIC LABORATORIES
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**SCHEME**

- FA3
- FA3
- AAS2M
- AAS2M
- AAS2M
- XRF1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : Waterhouse

Your Reference : 038122 D/S G5013  Our Reference : 2DN0883

Samples Received : 11/08/92  Results Reported : 15/08/92
Number of Samples : 56  Report Pages :

2DN0883A : 1 to 1
2DN0883B : 1 to 1
2DN0883C : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL7523 -40 Streams
Bleg
Rockchip

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:

for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
# Analytical Report

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- **40# Streams**

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**Units**

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Woodcutters Mine  
P.M.B. 60  
Winnellie  
N.T. 0821

ANALYSIS REPORT: Waterhouse

Your Reference: 038149 D/S G5014  
Our Reference: 2DN0888

Samples Received: 11/08/92  
Number of Samples: 21

Results Reported: 14/08/92  
Report Pages:
2DN0888A: 1 to 1
2DN0888B: 1 to 1
2DN0888C: 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7523 → 40# Streams
    → Rockchips
    → Blegs

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:  

for

ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
## ANALYTICAL REPORT

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### UNITS
- ppm
- ppm
- ppm
- ppm
- ppm
- ppm
- ppm

### DET. LIM
- 0.001
- 0.001
- 1
- 2
- 1
- 20

### SCHEME
- FA3
- FA3
- AAS2M
- AAS2M
- AAS2M
- AAS2M

---

-40# Streams

---
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT: Waterhouse
Your Reference: 038192 D/S G5015
Samples Received: 13/08/92
Number of Samples: 15

Our Reference: 2DN0897
Results Reported: 19/08/92
Report Pages:
2DN0897A: 1 to 1
2DN0897B: 1 to 1
2DN0897C: 1 to 1

This report relates specifically to the samples tested in so far as
the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our
reference as above.

EL 7523 Follow Up Camp
Follow Creek Station

-40# Streams
- Blag
- Rockchips

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
# Analytical Report

**Sample** | **Au** | **AuDpl** | **Cu** | **Pb** | **Zn** | **As**
--- | --- | --- | --- | --- | --- | ---
581215 -40 mesh | <0.001 | -- | 6 | 15 | 5 | <20
581216 -40 mesh | <0.001 | -- | 18 | 32 | 11 | <20
581217 -40 mesh | 0.001 | -- | 20 | 37 | 10 | <20
581218 -40 mesh | <0.001 | -- | 4 | 12 | 6 | <20
581219 -40 mesh | <0.001 | -- | 9 | 21 | 19 | <20
581220 -40 mesh | <0.001 | -- | 7 | 16 | 12 | <20
581221 -40 mesh | <0.001 | -- | 12 | 42 | 18 | 70
581222 -40 mesh | <0.001 | -- | 8 | 26 | 10 | 50
581223 -40 mesh | <0.001 <0.001 | -- | 4 | 11 | 4 | 40

---

-40# Streams

---

**Units**

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AAS2M AAS2M AAS2M AAS2M AAS2M

Page 1 of 1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : EL7523
Your Reference : 038520 D/S G5074  Our Reference : 2DN0993
Samples Received : 30/08/92  Results Reported : 01/09/92
Number of Samples : 14  Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as
the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our
reference as above.

Camp Creek Follow Up

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:
for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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Woodcutters Mine  
P.M.B. 60  
Winnellie  
N.T. 0821

ANALYSIS REPORT:

Your Reference: 038082 D/S G5009  
Our Reference: 2DN0859

Samples Received: 06/08/92  
Results Reported: 14/08/92

Number of Samples: 61  
Report Pages:
2DN0859A: 1 to 1
2DN0859B: 1 to 1
2DN0859C: 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7523 - waterhouse

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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**SCHEME** | FA1  | FA1  | AAS2M| AAS2M| AAS2M| AAS2M|     |
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : Waterhouse
Your Reference : 038122 D/S G5013
Samples Received : 11/08/92
Number of Samples : 56

Our Reference : 2DN0883
Results Reported : 15/08/92
Report Pages :
2DN0883A : 1 to 1
2DN0883B : 1 to 1
2DN0883C : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL7523 → -40 # Streams
Bleq
Rockchip

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:
for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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**Rockchip**

**UNITS**

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Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : Wattlehouse
Your Reference : 038149 D/S G5014  Our Reference : 2DN0888
Samples Received : 11/08/92  Results Reported : 14/08/92
Number of Samples : 21  Report Pages :
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  2DN0888B : 1 to 1
  2DN0888C : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7523 → 40 ft Streams
     → Rockchips
     → Blegs

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:
for
ALAN CIPILYS
Manager - Darwin
CLASSIC LABORATORIES
**ANALYTICAL REPORT**

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**Hot Chips**

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Page 1 of 1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : Waterhouse
Your Reference : 038192 D/S G5015  Our Reference : 2DN0897
Samples Received : 13/08/92  Results Reported : 19/08/92
Number of Samples : 15
Report Pages :
2DN0897A : 1 to 1
2DN0897B : 1 to 1
2DN0897C : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7523 Follow Up Camp
   Creek Station
   -40# Streams
   - Bleg
   - Rockchips

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:
for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
### ANALYTICAL REPORT

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### EL 7523 Rock chips

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**UNITS**
- ppm

**DET. LIM**
- 0.01

**SCHEME**
- FA1
- FA1
- AAS2M
- AAS2M
- AAS2M
- AAS2M

---

Page 1 of 1
Woodcutters Mine
P.M.B. 60
Winnellie
N.T. 0821

ANALYSIS REPORT : EL7523
Your Reference : 038520 D/S G5074
Samples Received : 30/08/92
Number of Samples : 14

Amdel Laboratories Limited  A.C.N. 009 076 555
21 Marjorie Street, Berrimah, Northern Territory
Postal Address : P.O. Box 58, Berrimah, N.T. 0828
Telephone: (089) 322 637 Facsimile: (089) 323 531

Received 14 SEP 1992

This report relates specifically to the samples tested in so far as
the samples supplied are truly representative of the sample source.
If you have any enquiries please contact the undersigned quoting our
reference as above.

Camp Creek Follow Up

Report Codes:
N.A. - Not Analysed
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Approved Signature:
for
ALAN CIPLYS
Manager - Darwin
CLASSIC LABORATORIES
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