SUMMARY

Exploration Licence 9466, Jupiter has been relinquished by Acacia Resources. The lease is located approximately 10 km north north-west of the Union Reefs Gold Mine operations plant. This report details work carried out by Acacia Resources on this tenement since it was granted on 28 June 1996.

A summary of the work conducted is given below:

- Compilation of exploration conducted by previous explorers
- Field reconnaissance
- 12 stream sediment samples
TABLE OF CONTENTS

1. INTRODUCTION

2. LOCATION AND ACCESS

3. REGIONAL GEOLOGY

4. PREVIOUS WORK

5. WORK COMPLETED
   5.1. 1996/97 (Report No 08.8791)
   5.2. 1997/98 (Report No 08.9628)

6. EXPENDITURE STATEMENT

7. REFERENCES

FIGURE LISTING

Figure 1    Tenement Location Plan    1:250,000

Figure 2    Regional Geology        1:200,000

Figure 3    Stream sediment sample locations and numbers  1:25,000

Figure 4    Stream sediment gold results    1:25,000

APPENDIX LISTING

Appendix 1    Stream Sediment Sample Ledger and Assay Results

Appendix 2    Environmental Register
1. INTRODUCTION

Exploration Licences 9466, Jupiter was relinquished by Acacia Resources on the 8th July 1998. This report details work carried out since the lease was granted on 28 June 1996.

2. LOCATION AND ACCESS

Jupiter is located 20km NNW of the Pine Creek township and 10km NNW of the Union Reefs Gold Mine operations plant (Figure 1), and is located on the NTDME Tenement Map 14/6-1 Union Reefs

Access to Jupiter (EL 9466) is difficult by road because of the hornfels alteration halo, forming a steep range of hills that surrounds the McKinlay Granite in the centre of the licence. Limited access is via the Mt. Wells Battery and the Union Extended Mine.

3. REGIONAL GEOLOGY

The tenement area is located within the central portion of the Pine Creek Shear Zone within Lower Proterozoic Finniss River Group, more specifically Burrell Creek Formation. Interbedded shale, siltstone and greywacke dominate this regional metasedimentary package which hosts the bulk of the major gold deposits in the Pine Creek Geosyncline including Pine Creek, Union Reefs and Spring Hill (Figure 2).

Turbiditic greywacke and shale exposed in the tenement areas have been assigned to Burrell Creek Formation. These rocks have been folded to produce upright NNW trending folds and sub-vertical to steeply dipping bedding throughout the area. Greenschist facies metamorphism appears to be broadly synchronous with this deformation.

The sequence has been intruded by the McKinlay Granite in the north-east which makes up the bulk of Jupiters EL 9466. Contact metamorphism has resulted in an approximately 100m wide amphibolitic hornfels zone within the metasediments around the margins of the granite.
### 4. PREVIOUS WORK

In 1988, rock chip sampling conducted by Western Gulf Oil and Mining returned one result of ~1 g/t Au, from the eastern margin of the lease.

Between 1992 and 1993, Magnum Gold and Billiton Australia conducted stream sediment sampling programs within Jupiter for a total of 14 samples. The best result of 13.7 ppb Au was returned by Magnum Gold (Figure 4).

### 5. WORK COMPLETED

#### 5.1. 1996/97 (Report No 08.8791)

Previous work was compiled, as summarised above in section four. Results from this work were to become the focus of exploration in 1998.

Five (5) stream sediment samples were collected in areas of outcropping sediments in the southern part of the lease. Access was hampered by the hornfelsed halo of sediments around the granite in the centre of the tenement and the initially proposed larger program was reduced.

Stream sediment samples were collected from both trap site and active stream channels sieved to -2mm, (a 2 to 5kg sample weight), and analysed for Au and Ag by BLEG. A second 300g, -70# sample fraction was sieved from the -2mm sample and assayed for Cu, Pb, Zn, and As by AAS. Assaying was conducted by Assaycorp in Pine Creek. The locations of samples were found by navigating with a Garmin GPS unit.

Results were negative and are shown in Figures 3 and 4 and detailed in Appendix 1.

#### 5.2. 1997/98 (Report No 08.9628)

Seven stream sediment samples were taken to test a historic result of 13.7 ppb Au (Magnum Gold). One sample directly down stream from the original sample gave 4.45 ppb Au, the remainder were all less than 0.85 ppb Au.

Two to three kg samples were collected from trap sites (6 samples) and an active channel (1 sample) and assayed for Au at Amdel by bulk cyanide leach (24 hour bottle roll) and determined by AAS (BLEG2 method). The samples were weighed by Amdel before assaying and were all between the required weight of 2-3kg.

Stream sediment sample ledgers and results are included in Appendix 1, and shown in Figures 3 and 4.
As a result of the disappointing results from the recent stream sediment sampling, and because the McKinlay granite dominates the Jupiter lease, the tenement has been surrendered.

6. EXPENDITURE STATEMENT

Expenditure at Jupiter from the 28 June 1996, until it was relinquished, totals $26,701. A breakdown of the expenditure is given below:

Expenditure for the period 28 June 1996 to 27 June 1997

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<td>Assays</td>
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Expenditure for the period 28 June 1997 to 8 July 1998

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7. REFERENCES


APPENDIX 1

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Donna Sewell
Acacia Resources
PO Box 36121
Winnellie
NT 0821

ANALYSIS REPORT : FINAL

Your Reference : 002524/N020D/JEH

Our Reference : 8DN0388

Samples Received : 26/05/98

Results Reported : 29/05/98

Number of Samples : 7

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.

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

Approved Signature:

for
Mr Russell Holtham
Manager - Darwin Mineral Chemistry
AMDEL LIMITED
A.C.N. 008 127 802
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Page 1 of 1
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**Project Comment:** This cover sheet is an integral part of the report. This report can only be reproduced in full.
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ASSAYCORP

Post Code: AC 36743
Date Received: 09/06/97
Number of Samples: 37

Assaycorp Pty Ltd
A.C.N. 052 982 911
174 Ward St
Pine Creek NT 0847
Ph (08) 8976 1292
Fax (08) 8976 1310

Report Distribution
J. Harvey

Preparation:

Name: NV002805
Project: HE70
Site: 1087082-1087088

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<td>Prec. ± 10 %</td>
<td>0.1</td>
<td>ppb</td>
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Document: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorisation: Ray Woodbridge
### ASSAY CODE: AC 36743

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APPENDIX 2

Environmental Ledger
TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
LAND STATUS RECORD

Project: Pine Creek

Tenement Name: Jupiter                   Loc. Code: N020D

Tenement No’s: EL 9466

Registered Holder(s): Acacia Resources Ltd

Date Granted: 26 June 1996   Term: 6 years   Area:

Bond/Security: NA

JV Partners (if any): NA

Land Classification: (Crown, Private, Lease) Lease

Land Holder/Occupier: Britts Australia   Station: Ban Ban Springs

Address: Ban Ban Springs Station        Phone: (08) 8985 2430
         Fountain Head Rd

Contacted By: E Wakefield                Date: June 1996

Pastoral Notes: (Stock, Cultivation, Access, Rainfall)
Open grazing land, little evidence of domestic livestock.
Access via the Mt Wells Rd, the North Australia Railway Easement or any number of
unmarked bush tracks

Environmental Notes: (Flora/Fauna, Erosion, Bushfires, Flooding)
Open tropical savannah. Prone to flooding during the wet, access difficult during
the wet.

Groundwater: (Bores/Wells/Dams, streams, drainage, test data)

Aboriginal Notes: (Sacred Sites, Cultural)
There are no sacred sites within Jupiter

Historic Relics: (Mine Workings, Equipment, Homesteads etc.)
NA

Previous Activity: (Mining, Exploration, Forestry, etc.)
All previous exploration was restricted to surface exploration only.
### TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
#### PRE-EXISTING ENVIRONMENTAL DISTURBANCE RECORD

<table>
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<td>No(s):</td>
<td>EL 9466</td>
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**Exploration Activity Area:** Stream sediment sampling

**Shafts/Pits/Dumps:** NA

**Track/Access:** Stuart Highway, Spring Hill Road, and Mt Wells Rd. Access by foot.

**Line Clearing:** NA

**Costeining:** NA

**Drill Sites:** NA

**Other:** NA

**Location Data:** Acacia database

**Other Ref:**

**Compiled by:** Niki Vela  
**Date:** July 1997
Tenement Name: Jupiter
No(s): EL 9466
Report Ref No's: 08.8791, 08.9628

Exploration Activities: Stream sediment sampling (12 sites).

Grids & Traverses: NA

Soil Sampling: NA

Costeans / Pits: NA

Drilling:

Drill Traverses: NA

Drill Pads: NA

Ground Geophysics: NA

Access Tracks: Current tracks used for access.

Camps: NA

Other: NA

Compiled by: Jane Ham  Date: October 1998
TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ACACIA REHABILITATION RECORD

Tenement Name: Jupiter
No(s): EL 9466

Disturbance: NIL
Rehabilitation: Finalised
Date: July 1998

Grids & Traverses: NA

Soil Sampling: NA

Costeans/Pits: NA

Drilling: NA

Drill Traverses: NA

Drill Pads: NA

Ground Geophysics: NA

Access Tracks: NA

Camps: NA

Other: NA

Inspected / Clearance:

Bond/Security released:

Compiled by: Jane Ham
Date: July 1998

Follow-up Inspection Report: Stream sediment sampling caused minimal disturbance. No tracks were constructed, as access was by foot, over the hornfelsed granite margin.