ANGLOGOLD AUSTRALASIA LIMITED

EL 9468 - HARRIET CREEK

FINAL REPORT FOR PERIOD
3RD SEPTEMBER 1996 - 12TH DECEMBER 2000

Author: Penny Large  Report No: 08.11443
Date: January 2001  Copy No: 3

Map Sheets:
1:100 000 Pine Creek - 5270
1:250 000 Pine Creek - SD52-8

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SUMMARY

Exploration Licence EL 9468, known as Harriet Creek, is located 5km north east of the township of Pine Creek and 10 - 12km south east of the Union Reefs Gold Mine. The licence area has been explored for gold mineralisation by AngloGold Australasia Limited since the 3rd of September 1996 when the lease was granted. The results from exploration completed within the Harriet Creek lease have been discouraging and as such AngloGold surrendered the tenement on the 12th December 2000. This report details the work completed within the tenement between the 3rd of September 1996 and the 12th December 2000.

Exploration activities conducted within the surrendered area are summarised below:

- Approximately two (2) line kilometres of cross line gridding
- Collection of sixty seven (67) auger soil samples
- Purchase of colour aerial photographs
- Digital elevation modelling
- Independent gravity survey (2 sample locations within the licence)
- Detailed aeromagnetic and radiometric survey
- Compilation and interpretation of aeromagnetic, radiometric and gravity data
# TABLE OF CONTENTS

1. **INTRODUCTION**  
2. **TENEMENT ISSUES**  
3. **LOCATION AND ACCESS**  
4. **REGIONAL GEOLOGY**  
5. **WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1997**  
   5.1. Aerial Photography and Digital Elevation Modelling  
   5.2. Detailed Aeromagnetic and Radiometric Survey  
   5.3. Gravity Survey  
6. **WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1998**  
   6.1. Gridding and Soil Sampling  
   6.2. Regional Geophysical Data Compilation  
7. **WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1999**  
8. **WORK COMPLETED IN THE PERIOD ENDING 12 DEC 2000**  
9. **ENVIRONMENTAL ISSUES**  
10. **EXPENDITURE STATEMENT FOR PERIOD OF TENURE**  
11. **REFERENCES**
FIGURE LISTING

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 1</td>
<td>Harriet Creek EL 9468</td>
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<td></td>
<td>Tenement Location Plan</td>
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<tr>
<td>Figure 2</td>
<td>Harriet Creek EL 9468</td>
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<td>Regional Geology Plan</td>
<td></td>
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<tr>
<td>Figure 3</td>
<td>Harriet Creek EL 9468</td>
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<td>Detailed Aeromagnetic Survey</td>
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<td>Total Magnetic Intensity, Reduced to Pole Image</td>
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<tr>
<td>Figure 4</td>
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<tr>
<td></td>
<td>Detailed Aeromagnetic Survey, Flight Line Plan</td>
<td></td>
</tr>
<tr>
<td>Figure 5</td>
<td>Harriet Creek EL 9468</td>
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<tr>
<td></td>
<td>Detailed Aeromagnetic Survey</td>
<td></td>
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<tr>
<td></td>
<td>Total Magnetic Intensity Contours</td>
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<tr>
<td>Figure 6</td>
<td>Harriet Creek EL 9468</td>
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<tr>
<td></td>
<td>Total Count Radiometric Image</td>
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<td>Figure 7</td>
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<td>Gravity Survey Data Points</td>
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<td>Figure 8</td>
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<td>Surface Sample Locations with Sample Numbers</td>
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<td>Figure 9</td>
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<td>Surface Sample Location Plan</td>
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<td>With Assay Results in ppb Au</td>
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APPENDIX LISTING

Appendix 1  AngloGold Geological Logging Codes
Appendix 2  Disk (ASCII comma delimited format)
            Contains: Surface Sample Ledger, Surface Sample Assay Report,
            Gravity Survey Data Points.
Appendix 3  Aeromagnetic and Radiometric Survey Specifications
Appendix 4  Gravity Survey Reference Points
Appendix 5  Environmental Register
Appendix 6  Digital Copy of Report (Original Copy Only)
1. INTRODUCTION

Exploration Licence (EL) 9468 has been explored by AngloGold Australasia Limited since being granted on the 3rd of September 1996. The centre of this tenement, also known as Harriet Creek, is located approximately 10km south of the Union Reefs Gold Mine operations.

Due to the lack of encouraging results within Harriet Creek the tenement was surrendered on the 12th December 2000. This report details all exploration work completed within the licence between the 3rd September and the 12th of December 2000.

2. TENEMENT ISSUES

Harriet Creek, comprising twenty-nine (29) graticular blocks, was granted to Acacia Resources on 3rd September 1996, for a period of six (6) years. Following a data review and a first pass program, a voluntary relinquishment of twenty six (26) blocks was made on the 13th June 1997. The blocks that were relinquished are detailed below:

**BLOCKS RELINQUISHED:**
Map No. 14/6-11 Pine Creek  Blocks: 33/56, 32/56

A partial relinquishment of two (2) blocks was made on the 12th November 1998, reducing the tenement down to one (1) block. The details of the blocks relinquished are given below:

**BLOCK RELINQUISHED:**
Map No. 14/6-11 Pine Creek  Blocks: 31/56, 32/56

Due to a successful takeover bid in late 1999, AngloGold Australasia Limited assumed control of all of Acacia Resources Ltd tenure including the exploration and management of the Harriet Creek licence.

Due to discouraging results and a change in exploration focuses, AngloGold surrendered the final block (Figure 1) of the Harriet Creek lease on the 12th December 2000. Details of the final relinquished block are detailed below:

**BLOCK RELINQUISHED:**
Map No. 14/6-11 Pine Creek  Blocks: 32/57

3. LOCATION AND ACCESS

The lease is located 5km ENE of the Pine Creek township and 10km SSE of the Union Reefs Gold Mine (Figure 1).

Access to Harriet Creek is possible via the Kakadu Highway, turning east of the Stuart Highway near Pine Creek and then north along the Frances Creek Road.
4. REGIONAL GEOLOGY

The relinquished area is located within the central portion of the Pine Creek Shear Zone within Burrell Creek and Mt. Bonnie Formation. Interbedded shales, siltstones and greywackes dominate these regional metasedimentary packages which host the bulk of the major gold deposits in the Pine Creek Geosyncline including Pine Creek, Union Reefs and Spring Hill (Figure 2). 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 geology of Harriet Creek is dominated by the intrusive Allamber Springs Granite, with some Mt. Bonnie Formation in the western margins of the tenement area (Figure 2).

5. WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1997

5.1. Aerial Photography and Digital Elevation Modelling

Airesearch Mapping was contracted to fly 1:25,000 scale colour aerial photography over Acacia’s Pine Creek tenements late in 1996, including the Harriet Creek lease.

Digital Elevation Models (DEM) were created from digital data acquired from ABAKOS in Brisbane. ABAKOS scanned 1:50,000 topographic maps and vectorised the contours to produce a digital database.

5.2. Detailed Aeromagnetic and Radiometric Survey

Universal Tracking Systems of Perth were contracted to fly a detailed aerial magnetic and radiometric survey over many of Acacia’s leases in the Pine Creek area, including the western margin of the Harriet Creek tenement. A TMI, RTP image is included as Figure 3, with a Flight Line Plan and Total Magnetic Intensity Contours included as Figure 4 and Figure 5 respectively. A Total Count Radiometric Image is shown as Figure 6. The survey specifications are included in Appendix 3 (Due to the small size of the survey ie. Less that 1/3 of a graticular block, the subset of digital data has not been included in this report).

5.3. Gravity Survey

A gravity survey was conducted during late 1997 incorporating Acacia’s Pine Creek tenements, including a small portion of the Harriet Creek licence. The survey provided more detailed data than the regional AGSO gravity surveys and was conducted as part of an Honours thesis(University of Tasmania) aimed at modelling the depth to granite intrusions in the Pine Creek Shear Zone area.

Station spacing for the survey was about 2 kms and a Worden gravity meter was used with a differential GPS providing accurate locations and heights for the subsequent data reductions. Two (2) stations fall within the Harriet Creek lease (Figure 7).

Hungerford Geophysical Consultants reviewed the results of the thesis and the survey with the following conclusions:
• The sediments to the west of the centre of the Pine Creek Geosyncline have a higher density than those on the eastern side. This can be attributed to either a thicker metasedimentary sequence on the western side or higher density rocks, possibly Mt Bonnie Formation (and not Burrell Creek Formation).
• A correlation between a shallower depth to granite basement and mineralisation was suggested.

6. WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1998

6.1. Gridding and Soil Sampling

Gridding totalling 3.5 line kilometres was completed in the relinquished area, using 50m spaced galvanised fence droppers, on the Pine Creek Regional Grid orientation (61.5° MN).

A total of sixty seven (67) auger soil samples were collected from the B₂/C horizon. Sample weights of 1.5 to 2kg were collected every 25m along 400m spaced grid lines and sieved to -5mm. The soil sample ledger is presented in a digital format (ASCII comma delimited format) Appendix 2.

The soil samples were dispatched to Assaycorp Laboratories in Pine Creek, where they were dried, crushed and pulverised to a nominal 90% passing -100µ. Samples where then analysed for low level Au by Fire Assay (FALL method). Standards were submitted every 30 samples.

Results were negative, with no samples greater than 10ppb Au. There was a cluster of 8, 7 and 5ppb Au values, on the southern most line at the western margin of the licence but these were considered too low to be of any significance. Analytical results are presented in Appendix 2 and sample locations and results are shown in Figure 8 and Figure 9, respectively.

6.2. Regional Geophysical Data Compilation

Hungerford Geophysical Consultants completed a revised geophysical compilation utilising recently acquired regional gravity data, multiple detailed and multiclient aeromagnetic data sets and IP surveys acquired between 1992 and 1997. This interpretation included Harriet Creek, and no targets were identified in the relinquished area.

In addition, the multiple aeromagnetic data sets were merged and levelled to allow easier comparison of the images across the boundaries of the different surveys. The following processing was applied to merge the detailed aeromagnetic and multiclient datasets:

• Regrid all surveys to 15m grid cell size.
• Add 47210nT to the UTS grid (if required)
• Boolean join of the multiclient and UTS grids
• Smooth the merged grid with a 3 x Hanning filter

Revised reduced to the pole and first vertical derivative plots were produced.
7. WORK COMPLETED IN THE PERIOD ENDING 2 SEPT 1999

The state of the gold price forced Acacia to focus its exploration efforts on drill testing potential near mine resources in the 1998/1999 reporting period. Due to a lack of encouraging targets of this nature within the Harriet Creek lease no field based exploration work was completed within the tenement during this reporting period.

8. WORK COMPLETED IN THE PERIOD ENDING 12 DEC 2000

Uncertainties arising from the attempted take-over of Acacia by Delta, and the subsequent successful take-over by AngloGold Australasia Limited led to a change in the exploration focus in 1999. AngloGold diverted all of its exploration funding towards immediately provable resources. This, compounded by a very late wet season in 2000 which restricted all access to the tenement till May, meant that no field based exploration was completed within the Harriet lease during the reporting period.

9. ENVIRONMENTAL ISSUES

AngloGold conducted exploration activities in such a way as to keep environmental disturbance to a minimum. No access tracks were constructed and existing tracks were used wherever possible. Auger holes were back filled on the completion of sampling and all grid pegs have been removed from the relinquished area. An environmental register is included in Appendix 5.
10. EXPENDITURE STATEMENT FOR PERIOD OF TENURE

Full details of annual expenditures can be found in the annual reports for the Harriet Creek lease. Below is a summary of the overall annual expenditure versus covenant.

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<th>Period</th>
<th>Covenant</th>
<th>Expenditure</th>
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<td>3rd Sept 1996 – 2nd Sept 1997</td>
<td>$ 35,000</td>
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<td>3rd Sept 1997 – 2nd Sept 1998</td>
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<td>$ 7,634</td>
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<td>3rd Sept 1999 – 2nd Sept 2000</td>
<td>$ 5,000</td>
<td>$ 2,540</td>
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<td><strong>Total =</strong></td>
<td><strong>$ 56,000</strong></td>
<td><strong>$35,685</strong></td>
</tr>
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11. REFERENCES


LARGE PENNY, 1999. Third Group Annual Report for the Years Ended 2nd September 1999 (EL 9468) and 20th October 1999 (EL 9552), Harriet Creek and Ragamuffin. Unpublished. (Report No. 08.10563)


SPURWAY CHRIS, 1997. First Partial Relinquishment Report for EL 9468 (Harriet Creek) Unpublished (Report No. 08.8949)


APPENDIX 1

ANGLOGOLD GEOLOGICAL LOGGING CODES
## AngloGold Australasia - Geological Logging Codes

### TEXTURE Ctd. (TEXT)

- **Metamorphic**
  - CR Crenulated
  - MY Mylonitic
  - PB Porphyroblastic
  - SC Schistose
  - SP Spotted

- **Igneous**
  - AC Acicular
  - AM Amygdaloidal
  - AN Anphanitic
  - EQ Equigranular
  - PO Porphyrinic
  - PW Pillsows

- **Structural**
  - BO Boxwork
  - BX Briefediated
  - FD Folded
  - FO Foliated
  - FR Fractured
  - LI Linedated
  - RO Rodded
  - SH Shared
  - SL Slicenslides

- **Others**
  - CX Crystalline
  - CO Competant
  - FB Fibrous
  - GO Gossanous
  - MS Massive
  - PT Platy
  - PS Porous
  - SA Saccaroidal
  - SB Solution Bands

### HARDNESS

- VH Very Hard
- H Hard
- M Medium
- S Soft
- VS Very Soft

### COLOUR (COLOUR)

- **Qualifier**
  - DK Dark
  - LT Light
  - BE Beige
  - BG Blue/gray
  - BK Black
  - BL Blue
  - BN Brown
  - CM Cream
  - GN Green
  - GY Grey
  - KK Khaki
  - MS Mustard
  - OG Orange
  - PI Pink
  - PP Purple
  - RD Red
  - TN Tan
  - WH White
  - YE Yellow

### WEATHER (Weathering) (WTH)

- **Sedimentary**
  - EW Extremely weathered with poor textural preservation
  - HW Highly weathered with moderate textural preservation
  - MW Moderately weathered with good textural preservation preservation
  - SW Slightly weathered with < 20% oxides
  - FR Fresh Bedrock

### GRAINSIZE (GIN_SZ)

- **Very Fine**
- **Fine** - not visible to naked eye
- **Medium** - visible to naked eye
- **Coarse** - 3-2mm
- **Very Coarse** (pebble)

### WEATHER (Weathering) (WTH)

- **Metamorphic**
  - AM Amphibolite
  - BMS Biotite Mica Schist
  - GN Gneiss
  - HF Hornfels
  - MB Marble

### REGOLITH (REGO)

- BR Bedrock (fresh)
- LS Lower Saprolite
- RX Redox Front
- SA Saprolite (undifferentiated)
- TL Latelite
- TR Transformed
- US Upper Saprolite
- WB Weathered Bedrock

### ROCKTYPE Ctd. (MAJ, MIN1, MIN2)

- **Metamorphic Ctd.**
  - PH Phylilithe
  - QC Quartz Carbonate
  - QMS Quartz Mica Schist
  - QT Quartzite
  - SC Schist
  - SL Slate
  - SSM Metasediment
  - TM Tourmalinite

### ROCKTYPE (MAJ, MIN1, MIN2)

- **Sedimentary**
  - AG Agglomerate
  - BX Breccia
  - BIF Banded Iron Form
  - CB Carbonate
  - CG Conglomerate
  - Cgw Carbonaceous Greywacke
  - CH Chert
  - CSH Carbonaceous Shale
  - CSI Carbonaceous Siltstone
  - CSS Carbonaceous Sandstone
  - DO Dolomite
  - EB Epiclastic
  - Ggw Graphitic Greywacke
  - GSC Graphitic Schist
  - GSH Graphitic Shale
  - GSI Graphitic Siltstone
  - GW Greywacke (>15%matrix)
  - HS Haematitic Shale
  - LM Limestone
  - SH Slate
  - SI Siltstone
  - SS Sandstone
  - TF Tuff

- **Igneous**
  - AP Aplitic
  - DL Dolerite
  - EB Basalt
  - EBA Antrim Plateau Volcanics
  - FI Felsic Intrusive (undiff)
  - GB Gabbro
  - GR Granite (undiff)
  - GRA Alkal Granite
  - GRD Granodiorite
  - MI Mafic Intrusive (undiff)
  - PG Pegmatite
  - PO Porphyry
  - VA Acid Volcanic
  - VB Basic Volcanic
  - VI Intermediate Volcanic

### MINERALS (ALTER, VEIN MIN)

- **Metamorphic**
  - AB Albite
  - AD Andalusite
  - AM Amphibole
  - AS Arsenopyrite
  - AT Altered (undiff)
  - AU Gold
  - BI Biotite
  - BL Bleaching (cb-si)
  - CB Carbonate
  - CH Chlorite
  - CL Clay
  - CO Cordierite
  - CW Clay Weathering
  - EP Epidote
  - FE Iron
  - FL Fluorine
  - GA Garnet
  - GN Green Alteration
  - GP Graphite
  - GT Goethite
  - HM Haematite
  - KA Kaolinite
  - KS K Feldspar
  - KY Kyanite
  - LI Limonite
  - LX Leucocene
  - MO Mica
  - MN Manganese
  - MT Magnetite
  - MU Muscovite
  - PH Phlogopite
  - PL Plagioclase
  - PO Pyrrhotite
  - PY Pyrite
  - QZ Quartz
  - SE Sericite
  - SI Silica
  - SR Siderite
  - TC Talc
  - TE Tremolite
  - TM Tourmaline
  - ZE Zeolite

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Revised 13/06/2000

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<td>FD Fold</td>
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<td>expressed as a numeric</td>
<td>FH Fold Hinge</td>
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<td>FTM Fault Large</td>
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<td>ROCK STRENGTH (Geotech)</td>
<td>SHAPE (Geotech)</td>
</tr>
<tr>
<td>KL Clean</td>
<td>S1 Very Soft Soil</td>
<td>PL Planar</td>
<td></td>
</tr>
<tr>
<td>LM Limonite</td>
<td>S2 Soft Soil</td>
<td>CU Curved</td>
<td></td>
</tr>
<tr>
<td>HM Haematite</td>
<td>S3 Stiff Soil</td>
<td>ST Stepped</td>
<td></td>
</tr>
<tr>
<td>QZ Quartz</td>
<td>S4 Hard Soil</td>
<td>UN Undulose</td>
<td></td>
</tr>
<tr>
<td>CL Clay</td>
<td>S5 Transitional Rock/Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL Talc</td>
<td>R1 Very Low Rock Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB Carbonate</td>
<td>R2 Low Rock Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH Chlorite</td>
<td>R3 Medium Rock Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP Epidote</td>
<td>R4 High Rock Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SU Sulphide</td>
<td>R5 Very High Rock Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF Rock Fragments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC Rock Frag &amp; Clay Mixtures</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX 2

DISK: ASCII COMMA DELIMITED FORMAT

CONTAINS: SURFACE SAMPLE LEDGER
SURFACE SAMPLE ASSAY REPORT
GRAVITY DATA
APPENDIX 3

AEROMAGNETIC AND RADIOMETRIC SURVEY SPECIFICATIONS
DETAILED AEROMAGNETIC SURVEY SPECIFICATIONS

1997 SURVEY

AircraftFU24-950
MagnetometerScintrex Caesium Vapour Cs2
Develco Vector Magnetometer
Resolution0.001nT
Sensitivity0.001nT
Recording Interval0.1 Seconds
CompensationRMS AADC II Compensator
Flight Line Separation50m
Flight Line Orientation060° True
Tie Line Separation500m
Tie line Orientation150° True
Mean terrain clearance25m
Sample Interval4 - 5 m
SpectrometerExploranium Model GR-820
NavigationNovatel 3951R 12 Channel Differential GPS
RACAL satellite DGPS correction receiver
AltimeterKing Model KRA-405 Radar Altimeter
Air DB Barometric Altimeter
Base Station SensorsScintrex “Envi-Mag” Proton Precession Magnetometer
Geometrics G-856 Proton Precession Magnetometer
APPENDIX 4

GRAVITY SURVEY
BASE STATIONS
1. GRAVITY BASE STATION LOCATIONS

9749-1037

Description: Star picket close to base of tree, near the northern turn-off to the Pine Creek township off the Stuart Highway.

AMG Coordinates: 805800.00 mE  8471000.00 mN

Elevation: 200 m above sea level

Observed Gravity: 978310.71 mGal

Established: M. Roach 17/10/96

Map Series - Pine Creek 1:50,000

---

9749-1036

Description: Orange strip painted around the base of a light pole in the car park of the Emerald Springs Road House, Stuart Highway.

AMG Coordinates: 784500.00 mE 84913500.00 mN

Elevation: 220 m above sea level

Observed Gravity: 978300.96 mGal
Established: M. Roach 17/10/96

Map Series- Burrundie 1 : 50,000

9749-1009

Description: Star picket near large road sign on Fountain Head road at the intersection of the Stuart Highway and Fountain Head Road.

AMG Coordinates: 759996.30 mE 8503120.15 mN

Elevation: 115.66 m above sea level

Observed Gravity: 978314.33 mGal

Established: M. Roach 16/10/96

Map Series - Fenton 1 : 50,000

9749.1001

Description: Star picket 10m from the Fountain Head road adjacent to the power station

AMG Coordinates: 762600mE 85049000mN

Elevation: 120.23m above sea level

Observed Gravity: 978311.148

Established: M. Roach 16/10/96

Map series: Fenton 1:50000
REGIONAL BASE STATION

ADELAIDE RIVER

9289 - 5171

Description: Circular plate, 1.5m west of the Adelaide River township fire station.

AMG Coordinates: 727802 mE 8535522 mN

Elevation: 52.78 m ASL

Observed Gravity: 978314.26 mGal

Established: M. Roach 16/10/96
APPENDIX 5

ENVIRONMENTAL REGISTER
## TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
### LAND STATUS RECORD

**Project:** Pine Creek  
**Tenement Name:** Harriet Creek  
**Loc. Code:** UR25  
**Tenement No’s:** EL 9468  
**Registered Holder(s):** Acacia Resources Ltd  
**Date Granted:** 3rd September 1996  
**Term:** 6 years  
**Area:**  
**Bond/Security:** Nil  
**JV Partners (if any):** Nil  
**Land Classification:** (Crown, Private, Lease) Lease  
**Land Holder/Occupier:** Gary Hamilton (Equest Pty Ltd)  
**Station:** Mary River West  
**Address:** 9 Pall Mall, Currumbin, QLD  
**Phone:** (075) 534 7408  
**Contacted By:** E Wakefield  
**Date:** 12/3/1996  

**Pastoral Notes:** (Stock, Cultivation, Access, Rainfall)  
Open grazing land, little evidence of domestic livestock. Access via the Stuart Highway, 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)  
No sites of significance exist in the relinquished portion of the lease.  

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

**Previous Activity:** (Mining, Exploration, Forestry, etc.)  
Nil
# TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
## PRE-EXISTING ENVIRONMENTAL DISTURBANCE RECORD

**Tenement Name:** Harriet Creek  
**No(s):** EL 9468,

### Exploration Activity Area:

**Shafts/Pits/Dumps:** Nil

**Track/Access:** Kakadu Highway, North Australia Railway Easement and numerous bush tracks.

**Line Clearing:** Nil

**Costeaning:** Nil

**Drill Sites:** Nil

**Other:** Nil

### Location Data:

**Other Ref:**

**Compiled by:** Niki Vela  
**Date:** October 1997
TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ANGLOGOLD ENVIRONMENTAL IMPACT RECORD

Tenement Name: Harriet Creek  No(s): EL 9468

Report Ref No’s: 08.8949  08.8942
                 08.9646  08.9664
                 08.10563  08.10956

Exploration Activities: 1997: Gridding and auger sampling

Grids & Traverses: 1997/98: 2 line km of cross line gridding with
50m spaced galvanised fence droppers

Soil Sampling: 1997/98: 67 auger soil samples

Costeans / Pits: Nil

Drilling: Nil

Drill Traverses: Nil

Drill Pads: Nil

Ground Geophysics: Nil

Access Tracks: Nil

Camps: Nil

Other: Nil

Compiled by: Jane Ham  Date: November 1998
## TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
### ANGLOGOLD REHABILITATION RECORD

**Tenement Name:** Harriet Creek  
**No(s):** EL 9468

**Disturbance:** Minor Surficial  
**Rehabilitation:** Completed

**Date:** January 2001

### Grids & Traverses:
Fence droppers at 50m spacing removed.

### Soil Sampling:
Sample sites backfilled immediately after sampling.

### Costeans/Pits:
Nil

### Drilling:
Nil

### Drill Traverses:
Nil

### Drill Pads:
Nil

### Ground Geophysics:
Nil

### Access Tracks:
Nil

### Camps:
Nil

### Other:
Nil

### Inspected / Clearance:

### Bond/Security released:
NA

### Compiled by:
Penny Large  
**Date:** January 2001

Follow-up Inspection Report:
APPENDIX 6

Digital Copy of Report
(Original Copy Only)
EL 9468 Harriet Creek

Sample Type
- AUGER
- PHVAC
- VACUUM

Scale 1:10,000