EXPLORATION LICENCE 23400

MOUNT PEAKE PROJECT

ANNUAL EXPLORATION REPORT

FOR THE PERIOD

25 NOVEMBER 2005 TO 24 NOVEMBER 2006

BY

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Department of Primary Industry, Fisheries & Mines, Darwin
Astro Diamond Mines NL, Melbourne
TENEMENT REPORT INDEX

OPERATOR: Astro Diamond Mines NL

PROJECT: Mt Peake

TENEMENTS: Exploration Licences: EL23400

REPORT PERIOD: 25 November 2005 to 24 November 2006

DUE DATE: 24 December 2006

AUTHOR: K. Washburn

STATE: Northern Territory

LATITUDE: S21°05’ – S21°22’

LONGITUDE: E132°45’ – E133°20’

MGA mN: 7635000 - 7670000

mE: 268000 - 330000

1 : 250,000 SHEET: SF53-05 Mount Peake

1 : 100,000 SHEET: 5455 Willowra, 5555 Conical Hill

MINERAL FIELD:

COMMODITY: Diamonds, gold

KEYWORDS: Aeromagnetic survey, Landsat Interpretation, data review, geology
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th></th>
<th>SUMMARY OF EXPLORATION ACTIVITIES</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>TENEMENT STATUS</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>LOCATION AND ACCESS</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>GEOLOGY</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>EXPLORATION</td>
<td>2</td>
</tr>
<tr>
<td>5.1</td>
<td>DATA REVIEW</td>
<td>2</td>
</tr>
<tr>
<td>5.2</td>
<td>TARGET GENERATION</td>
<td>3</td>
</tr>
<tr>
<td>5.3</td>
<td>PROPOSED EXPLORATION</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>BIBLIOGRAPHY</td>
<td>5</td>
</tr>
</tbody>
</table>

# LIST OF FIGURES

1. TENEMENT LOCATION PLAN  
   1:500,000, A4, Landscape  

2. GEOLOGICAL MAP  
   1:500,000, A4, Landscape  

1 SUMMARY OF EXPLORATION ACTIVITIES
Exploration carried out over the EL23400 during the reporting period was very limited.

2 TENEMENT STATUS
Astro Diamond Mines NL applied for EL23400 on 2 October 2001, the tenement was granted on 25 November 2003 covering an area of 1044.7 km².

3 LOCATION AND ACCESS
Exploration Licence 23400 lies in the Tanami Desert of south central Northern Territory approximately 30km north of Mt Peake and 90km north-west of Barrow Creek. Access to the area would be through Barrow Creek, and then taking various station tracks.

4 GEOLOGY
The project area lies along the southern margin of the North Australian Craton (NAC) where remnants of the North Australian Platform Cover (NAPC), the Lander Rock Beds (equivalent to the Hatches Creek Group of the Tennant Creek Inlier, Ahmad 2000), have been intruded by granitic and mafic rocks at about 1820 Ma (Hendrickx et al 2000). This age of intrusion correlates with the intrusions in the Halls Creek Orogen and Vandenberg et al (2001) comments that the Tanami Event (1845-1830 Ma) reflects the collision of the North Australian Craton with the Kimberley Craton. In the King Leopold Orogen, in the West Kimberley, 1800 Ma age granitic and mafic rocks also occur within a zone of steeply dipping thrust faults (Griffin et al 1995). The West Kimberley lamproites occur in a similar structural setting to the Mount Peake Project area.

Previous exploration by Normandy NFM Limited indicates that outcrop of the Proterozoic rocks is very sparse in the area and is dominated by Quaternary aeolian sands and red soils, with minor Tertiary laterites. The Proterozoic bedrock in the region comprises the Lower Proterozoic Bullion Schist, which consists of metamorphosed shelf sediments and minor volcanics. These are overlain by Middle Proterozoic sediments and intruded by granites, and subsequently overlain by Late Proterozoic sediments.

The Cenozoic cover can vary from less than one metre, to over 50 m in large Tertiary palaeochannels. Previous workers have noted the occurrence of a number of extremely dense and magnetic circular bulls-eye aeromagnetic features that are probably concealed mafic plugs.
5  EXPLORATION

5.1  DATA REVIEW
An additional data review was conducted during the reporting year to further consolidate the geological understanding of the area.

5.2  TARGET GENERATION
Magnetic targets were defined from a previous data review (Washburn, C.A. 2004). The targets were selected from stacked profiles prepared in house.

5.3  PROPOSED EXPLORATION
As no on-ground exploration was conducted during the reporting year the proposed exploration remains the same as last year’s report.

A helicopter-borne first pass reconnaissance will be carried out due to the remote nature of most of the anomalous areas. Rock chip sampling will be carried out over certain quartz outcrops, and soil and loam samples will be collected over the various areas of interest as there are no major or minor streams mapped within the tenement. If there are small drainages found on-site, then stream sediment samples will be collected and analysed for gold and trace elements.

The loam samples will be sent for analysis of heavy concentrates for chromites and any other kimberlite indicator minerals.
6 BIBLIOGRAPHY


