BRIDGING REPORT TO COVER EXPLORATION ACTIVITIES
OVER MLC 176
19 JULY 2005 – 28 SEPTEMBER 2009

MLC 176
Chariot

LICENSEE:
GIANTS REEF EXPLORATION PTY LTD
A.C.N. 009 200 346

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SEPTEMBER 2009

DISTRIBUTION:
Department of Regional Development, Primary Industry,
Fisheries & Resources
Central Land Council
Emmerson Resources Ltd

MAP SHEETS:
TENNANT CREEK
SE53-14
1:250 000
TENNANT CREEK
5758
1:100 000
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Figure 1. Location Map of the MLC 176 in relation to the Tennant Creek Township.
1. SUMMARY

Mineral Lease 176, Chariot, was acquired by Giants Reef Exploration Pty Ltd to search for Tennant Creek style iron oxide copper-gold deposits.

This bridging report records the exploration work done on this tenement during the term 19 July 2005 to 28 September 2009.

The level of exploration on MLC 176 was limited during the reporting term, due to a number of factors as follows;

The first factor – Giants Reef Mining former owner of Giants Reef Exploration Pty Ltd changed its name to Centralian Minerals in December 2005 before entering into administration in January 2006. Emmerson purchased a group of assets which included Giants Reef Exploration Pty Ltd on 1 August 2006. Emmerson then listed on the Australian Stock Exchange (ASX) on 17 December 2007 following a lengthy and successful IPO raising $20 million. During this period of restructure, administration and IPO all tenements were void of exploration activities and included MLC 176.

During 2009 Emmerson further strengthened its financial position by inking an agreement with Ivanhoe Australia to spend $28 million over 5 years to earn a 51% farmin stake on the Tennant Creek Tenements

These strong financial foundations and the employment of new administration and geological staff puts Emmerson in a position assess and review previous exploration and commence new exploration activities.

Emmerson commenced its aggressive exploration strategy, which included the completion of a detailed ground gravity survey, airborne geophysical surveys and structural modelling conducted by the Centre for Exploration Targeting (CET) and arm of the University of Western Australia (UWA), with the aim of generating targets for further exploration and drill testing before relinquishing any of the current tenure. MLC 176 was included in the area covered by the ground gravity geophysical survey and interpretation and analysis of the captured data has commenced and will continue during the next tenure term.
2. INTRODUCTION

Mineral Lease 176, Chariot, was acquired by Giants Reef Exploration Pty Ltd (Giants Reef) to search for Tennant Creek style iron oxide copper-gold deposits.

The Lease was applied for to cover a gravity/magnetic anomaly known to be the result of a concealed body of ironstone. The anomaly was later titled Chariot. MLC 176 now forms part of a number of Leases which cover the Chariot Gold Mine and associated Infrastructure. The Lease was formerly known as Chardonnay.

This bridging report records the exploration work done on this tenement during the term 19 July 2005 to 28 September 2009.

3. LOCATION

Mineral Lease 176 is a tenement located approximately 9km west of the Tennant Creek Township. The Claim area is located in Emmerson’s Southern Project Area (SPA).

Access to the tenure area is via Udall Road to the historical TC8 mine, thorugh the TC8 mine compound and over the Darwin to Alice Springs rail line, on to an all-weather unsealed haul road. This haul road extends west from TC8, traversing the northern boundary of EL 10199 for approximately 5km to the Historical Chariot Mine site.

Figure 1 shows the location of the tenure area with respect to the town of Tennant Creek.

4. TENURE

Tenure details for the Tenement is as follows:

<table>
<thead>
<tr>
<th>Tenure</th>
<th>License Holder</th>
<th>Blocks &amp; part-blocks</th>
<th>Area (ha)</th>
<th>Date of Expiry</th>
<th>Period of Grant Sought</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLC 176</td>
<td>Giants Reef Exploration Pty Ltd</td>
<td></td>
<td>15.01</td>
<td>31/12/2009</td>
<td>10 Years</td>
</tr>
</tbody>
</table>

The tenure area lies within both Aboriginal Freehold Land (NT Portion 04115, Held in Trust for Warumungu Aboriginal Land Trust) & Perpetual Pastoral Lease (NT Portion 00494, Perpetual Pastoral Lease 1142, Tennant Creek Station).

Figure 1 shows the tenure area as it was during the reporting term.
5. GEOLOGY

5.1 Regional Geology

The reader is referred to AusIMM Monograph 14 (Geology of the Mineral Deposits of Australia and Papua New Guinea), Volume 1, pp. 829-861, to gain an introduction to the regional geology and styles of gold-copper mineralisation of the area.

In 1995 the Northern Territory Geological Survey released a geological map and explanatory notes for the Tennant Creek 1:100,000 sheet, which covers the area of the license.

The rocks of the Warramunga Formation host most of the ore bodies in the region and underlie the Exploration License.

5.2 Local Geology

There are no outcrops of Proterozoic basement rocks in EL 10199, which is blanketed by a layer of colluvium and aeolian sand up to seven metres thick.

The Palaeoproterozoic Warramunga Formation is assumed to underlie all of the Licence area. This formation is key host to all the magnetite-haematite (ironstone–hosted) gold-copper-bismuth mineralisation and ore bodies in the Tennant Creek goldfield. The Chariot gold deposit is hosted by haematite > magnetite dominated ironstone and differ somewhat to the more magnetite dominated ironstones in the Tennant Creek goldfield.

6. PREVIOUS EXPLORATION

MLC 176

All previous exploration work is detailed in the “Third Annual Report for Mineral Leases 23216, C176 & C177”; Giants Reef Exploration Pty Ltd; K. Bischoff, B. Parker, A. Hawley; October 2005.

7. WORK CONDUCTED DURING THE REPORTING TERM

The level of exploration on MLC 176 was limited during the reporting term, due to a number of factors as follows;

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8. REHABILITATION

Exploration within MLC 176 during the report period consisted of non invasive geophysical surveys, therefore no rehabilitation was required.

9. REFERENCES
