RELINQUISHMENT REPORT
20 MARCH 2001 – 19 MARCH 2009

EXPLORATION LICENCE
10370 BARKLY

LICENSEE:
METEORIC RESOURCES N.L.
A.B.N. 64 107 985 651
GIANTS REEF EXPLORATION PTY LTD
A.C.N. 009 200 346

AUTHOR:
A.WALTERS

JUNE 2009

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

MAP SHEETS:
TENNANT CREEK SE53-14
TENNANT CREEK 1:250 000
GOSSE RIVER 5858
FLYNN 5759
TENNANT CREEK 5758
1:100 000
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Figure 1. EL 10370 Barkly Licence & Relinquishment Area
1. SUMMARY

Exploration License (EL) 10370 Barkly was acquired to search for Tennant Creek style iron oxide copper-gold deposits. Giants Reef Exploration Pty Ltd is a wholly owned subsidiary of Emmerson Resources Ltd.

EL 10370 is explored under the Barkly Joint Venture (JV), this JV was inked with Giants Reef, and covers the southeast extension of the Tennant Creek mineral field which has a production history of 5M ounces of gold and 16M tonnes of copper which was won from high grade ironstone related deposits. The JV tenements cover the historical Bluebird and Perseverance workings. Perseverance historical results showed a best result of 3m at 43.2g/t Au from 72m depth. Those workings are covered by a Central Land Council exclusion zone whereas the shallow Bluebird workings where historical results indicate 172t of ore at 9.3g/t Au were produced are outside the exclusion zone.

Meteoric Resources currently has a 70% interest and Emmerson (Giants Reef) 30% with management rights being transferred back to Emmerson during February 2009.

During the last tenure term Emmerson successfully built a team of highly qualified and skilled, staff and Geoscientists. Work commenced on the analysis of all historic drilling data, which included the validation and assessment of all Historical drilling over Emmerson Tenure, including EL 10370 and then the compilation into a database.

A Detailed Ground Gravity Survey, conducted by Fugro Ground Geophysics commenced 27 March 2008. This ground gravity survey was conducted over Emmerson’s Tennant Creek tenure package and included the relinquished area of EL 10370. The survey was conducted by three teams, each team consisted of a quad bike and rider equipped with a station meter. The three teams were supported by a Toyota Landcruiser 4WD Ute. The readings were taken on a 500m station spacing’s, on lines 500m apart oriented North – South. Readings in areas requiring more detail were taken on 50 station spacing’s on 100m spaced lines oriented North - South. The survey was completed during October 2008. 49 station readings were taken in the relinquished portion of EL 10370 and consisted of 49 Regional readings, and is displayed as red diamonds in Figure 1.

A Detailed Airborne Magnetic, Radiometric and Digital Terrain Survey was conducted by UTS Geophysics and commenced 26 May 2008 and was completed on 22 July 2008. The survey included areas of the Eastern Project Area (EPA) and included part of the relinquished area of EL 10370, the area covered is detailed as a magenta coloured diagonally stripped region, in Figure 1. The survey was flown with a FU24 – 954 fixed wing survey aircraft on 75m line spacing’s, with 750m tie line spacing’s and a sensor height of 25m for a total Line KM of 38,278, with 3,379km’s (approximately 9%) being in the EPA. Magnetic Data was captured using a Scintrex Cesium Vapour CS-2 total field magnetometer, Fluxgate three component vector magnetometer, RMS Aeromagnetic Automatic Digital Compensator (AADC II) and a Diurnal monitoring Magnetometer (Scintrex Envi8mag). Radiometric Data was captured using an Exploranium GR-820 gamma ray spectrometer and Exploranium gamma ray detectors.
Emmerson’s evaluation of this newly captured data in conjunction with previous exploration data and information and as the relinquished area of EL 10370 does not contain any Known Warramunga Formation outcrops, the Warramunga Formation is the host rock to virtually all of the well-known Tennant Creek style of ironstone-associated gold-copper-bismuth orebodies, it was recommended that a voluntary reduction of area be actioned for EL 10370.

This report records the exploration work done on the relinquished portion of EL 10370 during the period 20 March 2001 to the 19 March 2009.
2. INTRODUCTION

Exploration Licence 10370 Barkly was initially granted to Giants Reef Exploration Pty Ltd (Giants Reef) on the 20th March 2001, for period of (6) years over an area of 262 one-minute blocks (809 km2). At the end of the second year of tenure EL 10370 was reduced from 262 to 131 graticular blocks (396.70km2). A waiver of reduction was applied for at the end of the third year of tenure to retain 131 graticular blocks.

A further voluntary reduction down to 66 graticular blocks was submitted and approved in February 2009, and forms the relinquishment covered in this report.

Both Tennant Creek-style orebodies and major base metals or base metals/precious metals deposits are considered potential targets in EL 10370.

Giants Reef is a wholly owned subsidiary of Emmerson Resources Limited (Emmerson). EL 10370 is explored under the Barkly Joint Venture (JV), this JV was inked with Giants Reef, and covers the southeast extension of the Tennant Creek mineral field which has a production history of 5M ounces of gold and 16M tonnes of copper which was won from high grade ironstone related deposits. The JV tenements cover the historical Bluebird and Perseverance workings. Perseverance historical results showed a best result of 3m at 43.2g/t Au from 72m depth. Those workings are covered by a Central Land Council exclusion zone whereas the shallow Bluebird workings where historical results indicate 172t of ore at 9.3g/t Au were produced are outside the exclusion zone.

Meteoric Resources currently has a 70% interest and Emmerson (Giants Reef) 30% with management rights being transferred back to Emmerson during February 2009.

This report records the exploration work done on the relinquished portion of EL 10370 during the period 20 March 2001 to the 19 March 2009.

3. LOCATION

Exploration License 10370 covers an area of 200 km², approximately 45km east north east of the Tennant Creek Township, south of the Barkly Highway and falls within the Barkly (5859), Gosse River (5858), Tennant Creek (5758) and Flynn (5759) 1:100 000 scale map sheets. EL 10370 is within NT Portions 494 & 1075, Perpetual Pastoral Lease 1142, Tennant Creek Station and is subject to an Indigenous Land Use Agreement (ILUA) signed in September 2000 between the Native Title holders of the Tennant Creek region, represented by the Central Land Council (CLC), and Giants Reef.

The relinquished portion of EL 10370 can be reached from Tennant Creek township by driving along the Barkly Highway, and thence via secondary unsealed tracks to the south. Access into the central parts of the Licence is gained via the Gigantic mine and along secondary tracks from the Tennant Creek township or from the old Overland Telegraph Station.
Access to the remainder of the Licence area from the Tennant Creek Township is via the sealed road to the Peko and Nobles Nob mines, and thence via the un-sealed Gosse River Road. A network of unsealed tracks provides reasonable vehicular access to the remainder of the tenement.

During and immediately after rain access to any area of the licence is generally difficult if not inaccessible.

Figure 1 shows the location of the License and Relinquishment areas with respect to the town of Tennant Creek.

4. TENURE

Tenure details for the Exploration License are as follows:

<table>
<thead>
<tr>
<th>Exploration License</th>
<th>License Holder</th>
<th>Blocks &amp; part-blocks</th>
<th>Area (km²)</th>
<th>Date of Grant</th>
<th>Period of Grant</th>
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<tr>
<td>EL 10370 Barkly</td>
<td>Meteoric Resources N.L. (70%) &amp; Giants Reef Exploration Pty Ltd (30%)</td>
<td>66</td>
<td>199.5</td>
<td>20 March 2001</td>
<td>6 + 2 + 2 years</td>
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</tbody>
</table>

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The Initial 6 year term expired on 19 March 2007, a renewal Application was submitted and granted for a further two year period. The two year renewal period expired on 19 March 2009 and a renewal application was submitted for a renewal for a final two year term, this renewal was granted and expires on 19 March 2011.

EL 10370 is subject to an Indigenous Land Use Agreement (ILUA) signed in September 2000 between the Native Title holders of the Tennant Creek region, represented by the CLC and Giants Reef.

The licence also falls within NT Portions 494 & 1075, Perpetual Pastoral Lease 1142, Tennant Creek Station.
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 orebodies in the region and underlie the Exploration License.

5.2 Local Geology

EL 10370 is located in the Tennant Creek Inlier, an area of Proterozoic rocks consisting of three distinct geological provinces; the Davenport Province to the southeast, the central Tennant Creek Block and the Tomkinson Creek Province to the northwest. The Inlier is comprised of a gneissic basement overlain by Proterozoic sediments of the Warramunga Formation, Hatches Creek Group and the Tomkinson Creek Beds.

The sequence of Proterozoic sediments was intruded by younger Proterozoic granitoids around 1858 Ma to 1845 Ma during the Barramundi Orogeny. The Proterozoic rocks were subsequently overlain by Cambrian sediments of the Georgina Basin.

The Tennant Creek goldfield is located within the central block where the oldest rocks are the metasedimentary rocks of the Warramunga Formation, which are the host to the ironstone – gold – copper – bismuth mineralisation of the Tennant Creek goldfield.

The Warramunga Formation is comprised of a sequence of argillaceous sedimentary rocks that includes greywacke, siltstone, shale and units of haematitic – magnetite shale. Cross – cutting and conformable quartz – feldspar porphyries occur within the sedimentary sequence.

Following deformation and uplift of the basement, the volcanics and volcaniclastics of the Flynn Sub – Group were erupted (1845 Ma to 1827 Ma), with intrusion of porphyries and minor granitoids into the Warramunga Formation. The Warramunga Formation has been subjected to three phases of deformation, the first of which formed tight to isoclinal folds with an east west axis. The two later phases formed west – northwest trending faults and shear zones, and finally northwest trending faults. The project cover an area of poor outcrop comprised of Cenozoic and Quaternary Aeolian and alluvial sand cover (Chisholm).

The Barkly JV covers the southeast extension of the Tennant Creek mineral field which has a production history of 5M ounces of gold and 16M tonnes of copper which was won
from high grade ironstone related deposits. The joint venture tenements cover the old Perseverance workings where previous drilling showed a best result of 3m at 43.2g/t Au from 72m depth. Those workings are covered by a Central Land Council exclusion zone whereas the shallow Bluebird workings where historical records indicate 172t of ore at 9.3g/t Au were produced are outside the exclusion zone.

The ironstones form part of the Golden Mile line of historical workings that strike over a length of 4.5km outside the prospect area. Magnetic surveys indicate that this trend extends into the project area through the Perseverance-Bluebird workings. Geophysical surveys have been used to indicate possible ironstone occurrences with potential mineralisation. Magnetics and gravity have been used to define targets.

6. EXPLORATION ON RELINQUISHED AREA

6.1 Targets and Concepts

Exploration within EL 10370 is aimed at discovering typical Tennant Creek style gold deposits or gold-copper deposits within ironstone of the Warramunga Formation.

This type of deposit is well documented, of which there are many examples in the region, including Warrego, White Devil, Orlando, Gecko and North Star mines, as well as many other smaller mines. These all take the form of ironstone (magnetite and/or haematite) masses with associated chloritic alteration and bodies of gold and/or copper mineralisation.

The discovery of the non-magnetic, haematite-rich Chariot deposit in 1998 has resulted in a broader exploration model by Giants Reef, which allows for the presence of extensive ore grade mineralisation hosted within primary, non-magnetic (haematite-rich) ironstones. Discoveries by Giants Reef of high grade mineralisation associated with haematite dominant ironstone at Marathon and Billy Boy, although small, are further examples of this style of mineralisation.

The potential for the haematite ironstones to host mineralisation in non magnetic areas essentially opens up the whole Tennant Creek goldfield to new target review. Along with the previously identified magnetic anomalies the Licence areas have the potential to host significant haematite mineralization either as new targets or as mineralisation extensions. At present there are no gravity maps for the Tennant Creek goldfield considered detailed enough to identify non-magnetic, haematitic gravity targets. In the next tenure year the geology of the Licence area will be assessed to decide whether a close spaced, high resolution gravity survey is warranted over the area.

6.2 EL 10370 Barkly – Relinquished Area
The License was acquired to search for IOCG deposits and to evaluate the extent of mineralisation associated with the Golden Mile Mineralised Trend, Warramunga Formation and the historical workings of the area.

Work carried out on EL 10370 during the reporting period focussed on the southern region of the tenement, which included the western extension to both the Peko Line and Nobles Nob lines of mineralisation, for Tennant Creek-type Ironstone hosted Au-Cu-Bi orebodies.

This work was centred on a series of prospects over a strike length of some 3.5 kms and which include the New Hope, Plumb, Comstock and Desert Hopes orebodies. Reprocessing of high quality gravity and magnetic data, a re-appraisal of previous drilling and a number of field trips into this area has re-defined targets and up-graded the potential of the area. In particular this work has provided greater confidence for further drill testing of the down-plunge potential of both the New Hope and Comstock mineralised structures and testing the New Hope gravity anomaly.

Exploration conducted under the Joint Venture focussed on the historical Bluebird and Perseverance prospects, located south of the relinquished area. Meteoric as operators of the Joint Venture conducted a series of RAB drilling programs and small geophysical surveys over the targeted areas.

In mid-2001, the Northern Territory Geological Survey and the Australian Geological Survey Organisation jointly carried out a gravity survey over the Tennant Creek 1:250,000 sheet and parts of some adjacent sheets. In the EL 10370 area, the station spacing was at 4km by 4km centres, and along much of the gravity ridge the spacing was at 2km by 2km. This survey information was a great improvement upon the old 11km by 11km coverage.

Consulting geophysicist Frank Lindeman, of Lindeman Geophysics Pty Ltd, Melbourne, assessed the new NTGS/AGSO gravity data over EL 10370 for Giants Reef. His report pointed out that the Bouguer gravity and the residual gravity contours in this area do not differ greatly from each other, which suggests that “the responses are of a singular nature and not affected by secondary and deeper responses”. The gravity ridge in northern portion of EL 10370 is most probably a reflection of the regional geology.

This observation downgraded the exploration potential of the EL 10370 gravity ridge as an exploration target for major base metals or base metals/precious metals deposit. The proposed drillhole at the residual gravity peak was abandoned by Giants Reef.

During the last tenure term Emmerson successfully built a team of highly qualified and skilled, staff and Geoscientists. Work commenced on the analysis of all historic drilling data, which included the validation and assessment of all Historical drilling over Emmerson Tenure, including EL 10370 and then the compilation into a database.

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All data from these newly conducted surveys will be submitted to DRDPIFR, as soon as the formatting is completed.
7. REHABILITATION

As exploration was limited to non-invasive geophysical surveys and desk top studies over the relinquished portion of EL 10370 during the reporting period no rehabilitation was required.
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HARD COPY REPORT META DATA FORM

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