RELINQUISHMENT AND FINAL REPORT FOR
EXPLORATION LICENCE 26194
UMBEARA

28 February 2008 – 14 May 2014

HELD BY:
QUASAR RESOURCES PTY LTD
100%

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Submitted by:

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Summary

Quasar Resources Pty Ltd relinquished EL 26194, in its entirety on 14 May 2014.

During 2008 the primary ‘on ground’ activity was the collection of 1090 gravity stations using helicopter support, to assist with targeting IOCG anomalies and palaeochannels as well as to assist with the understanding of basement geology. This was followed up in 2009 with the collection of 1126 surface samples for multi-element geochemical analysis. There has been no exploration activity since 2009.

Quasar picked up the licence to explore for IOCGU and palaeochannel hosted uranium deposits.
Proponent Details

The operator for the exploration licence is Quasar Resources Pty Ltd.

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Contact Person

Joy Barnes – Executive Assistant/Tenement Manager
1. Location and Access

EL 26194 Umbeara is situated on the Kulgera SG5305, 1:250,000 map sheet of Northern Territory. The tenement covered approximately 483 blocks totalling 1,534 km² and is located south of the town of Eldunda, crossing the Stuart Highway and the Adelaide to Darwin Railway line.

Access within the tenement is on gravel roads and pastoral station tracks.

2. Tenement Details

QSR holds 100% interest in EL 26194, which was granted on the 28 February 2008. In 2011, the 3rd anniversary of the licence Quasar completed a 50% reduction. In 2012, the 4th year anniversary of the licence, Quasar completed another 50% reduction as per statutory requirements. The EL was reduced further in 2014 (6th year anniversary), by approximately 38%. At time of surrender only 72 blocks remained. The land tenure of the licence is Perpetual Pastoral Lease (Table 1).

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Table 1: Land holders over EL 26194 Umbeara

3. Geology

Quasar is primarily targeting the uranium potential of the Mesozoic and Cainozoic sedimentary cover sequence where Eromanga Basin sediments onlap the southeastern margin of the Amadeus Basin and the Musgrave Block. It is also prospective for IOCG mineralisation in Mesoproterozoic basement rocks.

The focus of uranium interests are the Mesozoic and Cainozoic sedimentary succession which are bounded by the Musgrave Block, with potential metamorphic and igneous uranium enriched source rocks. These basement rocks are dominated by felsic gneisses with protolith ages of 1590-1540Ma, which are intruded by a suite of granites (Pitjantjatjara Supersuite/formerly Kulgera Suite) dated 1190-1120 Ma (Edgoose et al., 2004).

There is also additional potential for calcrete-hosted uranium mineralisation within surficial Cenozoic sediments which are characterised by ephemeral valleys and small playa lakes.

4. Exploration Work Completed

4.1 Gravity Survey

A precision GPS-Gravity survey was conducted by Daishsat Geodetic Surveyors between 18 November and 1 December 2008. A total of 1090 stations were collected over the area at a nominal station spacing of 1km.

This survey was conducted as part of a larger survey covering three explorations licences operated by Quasar Resources.
Figure 2 shows the Bouguer gravity image covering the area.

Stations were accessed using a Robinson R-44 Helicopter and Yamaha Rhino ATV’s. Gravity measurements were made using Scintrex CG-3, Scintrex CG5 and LaCoste & Romberg Type-G gravity meters. Position and level data was obtained using Leica 1230GG geodetic grade GPS receivers collecting GPS and GLONASS positional information operating in post-kinematic mode. Data was processed by Daishsat using standard reductions to the ISOGAL84 gravity network using Geosoft GRAVRED software.

4.2 Surface Sampling

Surface samples were collected on an 800 x 800 m grid over approximately half of EL 26194 Umbeara (Figure 3). Sample locations were moved off the square of the grid where they were outside any traditionally significant areas (such as salt lakes) and sand dunes. Areas of extensive sand dunes outside this programme were not sampled. The north eastern corner was not sampled due to denied access by landholder (Barnes & Caon, 2009).

Preferentially, calcrete samples were collected, followed by ferricrete. If neither were intersected to a depth of 1 m a soil sample was taken. The presence of calcrete was tested using 10% HCl. Where nodular or sheet calcrete was intercepted the samples were sieved to collect the nodules, otherwise whole soil samples were taken. Samples were approximately 1.0 kg.

A total of 1126 samples were collected and submitted for geochemical analysis at ALS, Adelaide (Figure 3). Three different preparation/analytical techniques, each with a specific suite of elements, were used (Table 2). ME-MS62 is a whole rock near-total four acid digest with ICP-AES finish. ME-ICP61 is a four acid digest with ICP-MS finish. ST44 is a gold analysis by aqua-regia extraction with ICP-MS finish.

<table>
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Table 2: Analytical method and element suite. LLD is the lower level of detection.

Due to the three different sample media collected, analysis of each medium was undertaken separately.
Uranium

The highest uranium result for EL 26194 Umbeara was 4.6 ppm in a ferricrete sample. The highest results for calcrete and soil samples were 3.2 ppm and 3.1 ppm respectively.

Results from this programme show several zones of elevated uranium. Overall there is a general increase in uranium from the northwest to the southeast, culminating in the largest elevated zone in the centre of the tenement, roughly orientated NE-SW. This zone corresponds with underlying Jurassic De Souza Sandstone. Other zones to the southeast and east of this zone of elevated uranium overlie Devonian Idracowra Sandstone. Both these formations unconformably overlie the Musgrave Block.

Gold

The highest gold result for EL 26194 Umbeara was 6.1 ppb in a calcrete sample (UM0303). The highest results for ferricrete and soil samples were 5.4 ppb (UM1719) and 2.4 ppb (UM1668) respectively. Neither of the > 5 ppb results are related spatially (Figure 4).

5. Conclusions

Results show a zone of elevated results for several elements which roughly corresponds with exposures and sub-cropping occurrences of sandstone formations. The proximity of potential source rocks from the adjacent Musgrave Block points to a possibility of sandstone hosted uranium mineralisation. No on ground exploration has been undertaken across the tenement since 2009.

Quasar Resources Pty Ltd have relinquished EL 26194 Umbeara in its entirety, as the result of a shift in exploration focus.

6. References


