

## PARTIAL RELINQUISHMENT REPORT FOR EXPLORATION LICENCE 26197 VICTORY DOWNS

HELD BY: QUASAR RESOURCES PTY LTD 100%

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### **Summary**

Quasar Resources Pty Ltd relinquished 47 blocks of EL26197 on 27 February 2014.

During 2008 the primary 'on ground' activity was the collection of 300 gravity stations over the relinquished area using helicopter support. This was followed up in 2009 with the collection of 107 surface samples for multi-element geochemical analysis over the relinquished area. There has been no exploration activity since 2009.

### **Proponent Details**

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

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### **Contact Person**

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#### 1. Location and Access

EL 26197 Victory Downs is located on the NT/SA border approximately 80km west of the Stuart Highway. The tenement is situated on the Kulgera SG5305, 1:250,000 map sheet of Northern Territory. The licence covered 117 blocks prior to relinquishment; following relinquishment, 70 blocks remain. Access from Alice Springs is via the sealed Stuart Highway, the gravel Gunbarrel Highway and pastoral station tracks.

#### 2. Tenement Details

QSR holds 100% interest in EL 26197 which was granted on the 28 February 2008. In 2012, the EL was in its 4<sup>th</sup> year, and consequently Quasar completed a 50% reduction as per the statutory requirement. The EL was reduced further in 2014, by approximately 40% of the 2012 tenement size (Figure 1). The land tenure of the licence is Perpetual Pastoral Lease (Table 1).

NT Portion	Type No	Owner's Name	Owner's Address		
INT I OILIOIT	<del>  '</del>				
03350	PPL 1088	John Garnaut Stanes	Lyndavale Station, PMB, Alice		
			Springs NT 0872		
00324, 00898	PPL 1055	Colin Bruce Morton	Victory Downs Station via		
			Alice Springs NT 0870		
04471	PPL 1146	Colin Bruce Morton as	Victory Downs Station via		
		Trustee of the Morton	Alice Springs NT 0870		
		Family Trust			
02869, 04007,	PPL 999	Umbeara Holdings Pty	Umbeara Station, PMB 66		
04017, 04018,		Ltd	Alice Springs NT 0872		
04020					

Table 1 Land holders over EL 26197 Victory Downs.

### 3. Geology

Quasar is primarily targeting uranium in Mesozoic and younger sedimentary cover sequences where the Eromanga Basin sediments on-lap the south-eastern margin of the Amadeus Basin and Musgrave Block. There is also potential for IOCGU mineralisation in Mesoproterozoic basement rocks.

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

#### 4. Exploration Work Completed

# 4.1 Gravity Survey

A precision GPS-Gravity survey was conducted by Daishsat Geodetic Surveyors between 18 November and the 4 December 2008. A total of 300 stations were collected over the relinquished area at a nominal station spacing of 1km.

This survey was conducted as part of a larger survey covering three exploration licenses operated by Quasar Resources. The gravity data covering the relinquished

area is presented in Appendix A. Figure 2 shows the location of the survey stations within the relinquished area of the exploration licence.

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.

The 1km x 1km survey was the result of the NTGS's "Bringing Forward Discovery" initiative for collaboration in geophysics surveys. The infill survey work was not part of the collaboration.

#### 4.2 Surface Sampling

Surface samples were collected on an  $800 \times 800$  m grid over approximately half of EL 26197 Victory Downs (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.

Preferentially, calcrete samples were collected, followed by ferricrete. If neither were available for sampling, a soil sample was collected from the base of a 1m hole. 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.

Details of the samples which fall within the relinquished area are shown in Appendix B.

A total of 107 surface samples submitted for geochemical analysis fall within the relinquished area. 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.

Metho	od ME-M	S62	Method ME-ICP61			Method ST44		
Element	Unit	LLD	Element	Unit	LLD	Element	Unit	LLD
U	ppm	0.1	Zn	ppm	2	Au	ppm	0.001
Th	ppm	0.2	Mn	ppm	5			
Cu	ppm	0.2	Со	ppm	1			
Pb	ppm	0.5	Ce	ppm	50			
Ag	ppm	0.02	Al	%	0.01			
As	ppm	0.2	K	%	0.01			
Bi	ppm	0.01	Ca	%	0.01			
Ga	ppm	0.05	Fe	%	0.01			
La	ppm	0.5	Mg	%	0.01			

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

### 5. Conclusions

The areas being relinquished are considered to either have lower prospectivity for sediment-hosted uranium or are relatively inaccessible due to sand dunes. The area

adjacent to the Woodroffe thrust is being retained due to its proximity to potential uranium source rocks. The proximity of potential source rocks from the adjacent Musgrave Block points to a possibility of sandstone hosted uranium mineralisation. A gravity anomaly in the west of the tenement is also included in the retained area due to its potential as an IOCGU target.

# 6. References

Edgoose, C.J., Scrimgeour, I.R., & Close, D.F., 2004, *Geology of the Musgrave Block*, Northern Territory. NTGS Report 15





