NT Minerals Pty Ltd
Georgina Project
EL 29139

Annual and Final Report
For the period
6 June 2012 to 2 Jan 2014

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1.0 ABSTRACT

Exploration License (EL) 29139 was referred to as the Georgina Project. The Project was approximately 270 km northeast of Alice Spring in the Northern Territory and extended 57 km to the east. The cumulative area of the tenements covered an area of approximately 795 km$^2$ in the south of the Georgina Basin.

EL 29139 was granted to NT Minerals Pty Ltd on the 6$^{th}$ of June 2012 and was surrendered on the 2$^{nd}$ of January 2014. During this period no field exploration activities were conducted over the Project area.

The Georgina Project was located in the underexplored Georgina Basin. Previous exploration targets have included phosphate, uranium, base metals and diamonds. All exploration in the area has been short lived with little work completed.

There are a number of delineated phosphate deposits in the region of EL 29139. There are prospects for sandstone hosted uranium deposits such as roll front and fault hosted deposits. There is also a possibility of associated copper mineralization within the fault hosted uranium deposits. Furthermore, base metals are potential targets in faulted areas which have been likened to Mississippi Valley-Type deposits within the title area.

Exploration to date has consisted of desktop studies, literature reviews, mapping and investigation of publicly available data from government surveys.

A review of the historical data available over the area and discouraging findings led to the decision to drop the ground. The assessment conducted found that, though the tenement area could hold potential for uranium or copper deposits, the level of uncertainty and risk in a large exploration program was too high. NT Minerals Pty Ltd has instead chosen to focus on its other more prospective projects.
2.0 LOCATION AND PHYSIOGRAPHY

2.1 LOCATION

EL 29139 is located in Eastern Northern Territory in the south of the Georgina Basin approximately 270 km northeast of Alice Springs.
2.2 TENEMENT DETAILS

EL 29139 was granted to NT Minerals on the 6th of June 2012 for a period of six years. The title is not contiguous with any other titles held by NT Minerals.

| EL NUMBER | 29139 |
| PROJECT NAME | Georgina Basin |
| SUB-BLOCKS | 250 |
| AREA (KM²) | 795 |
| LOCATION | Georgina Basin |
| DATE GRANTED | 6/06/2012 |
| DATE SURRENDERED | 5/06/2018 |

Table 1 - Tenement Details

2.3 ACCESS & PHYSIOGRAPHY

Title EL 29139 was 50 km north of the Plenty Highway which then joins the Stuart Highway 320 km to the west. Access from the Plenty Highway to the title area is via unsealed tracks.

Rail access is via the only rail line in the Northern Territory which is located approximately 250km due east of the title.

EL 29139 is covered by pastoral properties which are crossed by perennial and non-perennial creeks. The main creeks across the title are Lucy Creek, Tomahawk Creek and Eurowie Creek.

The area is relatively flat with a gentle slope from the edges of the title into the centre. There are some areas of outcrop. Topography and creek cover can be seen in the figure below.
Figure 2 - Physiographical Features of EL 29139
3.0 GEOLOGICAL SETTING

3.1 REGIONAL GEOLOGY

EL 29139 was located in the intracratonic Georgina Basin located in the east of the Northern Territory. The Georgina Basin is a widespread unmetamorphosed Neoproterozoic to Palaeozoic intracratonic sedimentary basin that was initiated as part of the Centralian Superbasin. The Georgina Basin is approximately 218,000 square kilometres in area and includes several sub-basins, troughs and shelves.

The Georgina Basin unconformably overlies the Aileron Province, Tennant Region, Murphy Inlier, McArthur and South Nicholson Basins and Lawn Hill Platform to the north-east. The basin is interpreted to be contiguous at depth with the Wiso and Daly Basins to the west. The Georgina Basin conformably overlies the Kalkarindji Province to the west and is unconformably overlain by the Carpentaria Basin to the north.

The basin deepens towards the south along the margin with the Arunta Region to the south-west and is up to 3.7 kilometres thick.

Figure 3 - Schematic regional cross section of the Georgina Basin (NT Geological Survey record 2007-003)

![Figure 3 - Schematic regional cross section of the Georgina Basin (NT Geological Survey record 2007-003)](image-url)
3.2 LOCAL GEOLOGY
The subsurface geology of EL 29139 is Cambrian to Ordovician in age and is predominantly composed of sandstone, limestone, dolostones and shales. There are some areas of outcrop within the title however relief in the area is generally low.

3.3 HISTORIC EXPLORATION
There are a number of historic titles that have overlapped the area of EL 29139. The exploration conducted over these tenements has been reviewed and reported on in the Year 1 Annual Report for the Georgina Project.

4.0 OPERATIONS REPORT
No field work was conducted over the Georgina Project prior to surrender. Work associated with this tenement has focused on a review of previous exploration in order to plan the forward exploration programme.

5.0 CONCLUSION AND RECOMMENDATIONS
NT Minerals has conducted an extensive literature review and historic exploration assessment of the Georgina Project area. Numerous mineral deposit types were considered over the area with particular interest paid to sedimentary phosphate, uranium and base metal deposits.
The review yielded discouraging findings and led to the decision to drop the ground. The assessment conducted found that, though the tenement area could hold potential for uranium or copper deposits, the level of uncertainty and risk in a large exploration program was too high. NT Minerals Pty Ltd has instead chosen to focus on its other more prospective projects.

6.0 REFERENCES