Titleholder: Rum Jungle Uranium Ltd
Operator: Rum Jungle Uranium Ltd
Tenement Manager: Ross McColl
Tenement: EL26570
Project Name: North Star North
Author: Nigel Doyle
Corporate Author: Rum Jungle Uranium Ltd
Target Commodity: Uranium, gold, base metals
Date of Report: 10/9/2009
Datum/Zone: GDA94/ Zone 53
250K mapsheet: Tennant Creek SE5314
100K mapsheet: Flynn
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APPENDIX 1 GEOPHYSICAL DATA
SUMMARY
No field work was conducted during the first year of tenure.

Approximately 30 line km of airborne geophysics were flown at 100m line spacing (N-S flight lines) at 40m flying height with a Fletcher FU24 Aircraft. Raw line data was sent to Southern Geoscience Consultants in Perth for processing.

Expenditure for the first year of tenure was $12 259 against a covenant of $24 000.

INTRODUCTION
EL 26570 was granted to Rum Jungle Uranium Ltd on May 30 2008.

EL 26570 is located 45km north of Tennant Creek, 3km south east of Phillip Creek Station homestead and 2km north of the Northern Star Mine. It is located on the Flynn 1:100 000 map sheet and the Tennant Creek 1:250 000 map sheet. The tenement was pegged to explore for IOCGU mineralisation, vein type and unconformity type uranium mineralisation. The tenement is located on the northern edge of the Warramunga Province which hosts the Tennant Creek gold field.

EL 26570 is part of Rum Jungle’s Tennant Creek Project which consists of twelve granted tenements.

Figure 1. Location map
GEOLOGICAL SETTING
EL26570 is located immediately north of the unconformity between the Warramunga Province and the Tomkinson Creek Province around 40km north of Tennant Creek. At the unconformity, the Flynn Group overlies the older deformed Warramunga Formation which hosts the Tennant Creek goldfield.

The Warramunga Formation contains lithic tuffaceous, volcaniclastic and lithic sandstone, siltstone and hematitic siltstone, mudstone, slate and volcanic arenite (metagreywacke). At the Northern Star mine site there are a number of hematitic ironstone knobs, which are common occurrences around Tennant Creek in the Warramunga Formation. Chloritic schists are known to host uranium mineralisation at depth below the Northern Star open cut mine but occur at such a depth they are not mapped in Warramunga Formation anywhere as outcrop. Chlorite is mapped in alteration haloes and shear zones around a number of Tennant Creek ore bodies.

The Flynn Group of the Palaeoproterozoic Churchill’s Head Group of rocks consists of relatively undeformed and un-metamorphosed sedimentary rocks and volcanics. The basal units are the Wundirgi Formation in the west and the Monument Formation to the east. The Wundirgi Formation consists of lithic arenite, siltstone and shale while the Monument Formation consists of rhyolitic and rhyodacitic tephra, tuffaceous sandstone, siltstone, chert and shale. The Bernborough and Brumbreu Formations occur further up in the stratigraphy, consisting of similar rocks with the Warrego Volcanics (chert, tuff, white siltstone and shale and sublithic arenite) interfingering with the Bernborough Formation.

The younger Warrego Granite intrudes the Flynn Group and outcrops to the west of EL 26570, while the Tennant Creek Granite outcrops to the south east.

There is no outcrop in EL26570 with the tenement being covered by recent sand, soil and colluvium.

Figure 2. Local Geology
PREVIOUS EXPLORATION
To the south of EL26570, The Northern Star Mine was operated a number of times between 1934-1988 producing 24 000 ounces of gold from 101,000 tonnes of ore at 7.3 g/t Au. Gold, copper and uranium has been intersected in drill holes (Willis, 1973) beneath the open pit which ceased operations in 1988 after a rock fall. Uranium has also been reported from the Edna Beryl Mine 4km to the east (MODAT).

CURRENT EXPLORATION
No field work was conducted during the first year of tenure. The area is covered by alluvium and black soil with no outcrop.

A geophysical survey was flown over the tenement and surrounding area to the west by UTS Geophysics between 27/5/2009 and 2/6/2009. Approximately 30 line km were flown at 100m line spacing (N-S flight lines) at 40m flying height with a Fletcher FU24 Aircraft. Raw line data was sent to Southern Geoscience Consultants in Perth for processing. Geophysical data are attached in Appendix 1.

Fieldwork will be conducted in the second year of tenure after interpretation and review of geophysical data.

Figure 3. Magnetic Image of EL26570.
PROPOSED EXPLORATION ACTIVITY YEAR 2
During the second year of tenure, exploration activities will consist of the following:

- Geophysical interpretation
- Ground investigation of radiometric and magnetic anomalies
- Geological reconnaissance

PROPOSED EXPENDITURE YEAR 2

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CONCLUSION
No ground work was conducted during the first year of tenure. Geophysical data is currently being interpreted.

REFERENCES

MODAT. Northern Territory Geological Survey Mineral Occurrence Database.