ANNUAL EXPLORATION REPORT
EL 24967

FOR PERIOD ENDING 30th July 2010

‘HAYWARD CREEK’
TENNANT CREEK  NT

Tennant Creek SE5314  1:250,000
Flynn 5759             1:100,000
Barkly 5859            1:100,000

Titleholder: Territory Uranium Company Limited

Report No. 2010-14
Prepared for Territory Uranium Ltd
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Appendix 1  Report Sent to Land Owner
1. SUMMARY

EL 24967 is roughly 60 kilometres North of Tennant Creek, lying east of the Stuart Highway. A RAB program was planned for year 4 under the Panoramic Resources joint venture. Unfortunately AAPA land access delays on EL24966 resulted in delays to the commencement of TUC’s Tennant Creek exploration programmes for 2010. The delays resulted in the planned RAB program not being drilled in year 4. TUC intends to complete this program early 2011 and has commenced preparations for drilling, with land owner permission sought and granted and preliminary reconnaissance of access tracks and site preparation requirements already completed (early year 5).

2. LOCATION AND ACCESS

EL24967 is situated approximately 40km to the North of Tennant Creek, NT (Figure 1). The western boundary of the Licence runs approximately seven kilometres east of the Stuart Highway, while the northern eastern boundary partly includes sparse but operational dirt roads. The southern boundary is approximately 25 kilometres north of the Barkly Highway and the track on the eastern perimeter of the tenement bounds the track to Rockhampton Downs and Wogyala.
Topography for most of the tenement is low relief, with some floodplains. The western border of the Licence has higher relief. The tenement has numerous creeks which can flood in heavy rains during the wet season. The northern boundary encompasses the southern end of Brunchilly Creek and the western boundary includes Hayward Creek.

The area has arid, ‘tropical’ climate with long hot summers and short mild winters. Rainfall peaks over the summer period (December to February) with up to 100mm during January (mostly storm related). Temperatures can range from 10°C during the winter into the high 30s for extended periods during summer.

3. TENEMENT STATUS AND OWNERSHIP

EL 24967 was granted on 31st July 2006 and expires on 30th July 2012. It comprised of 448 graticular blocks, half (224 blocks) of which were relinquished at the end of the third year (Figure 1). A waiver from reduction was requested and granted for the end of the fourth year. There are no other current mining leases or mineral claims shown within the Licence boundaries.

Underlying cadastre is all Perpetual Pastoral Lease, owned by several parties, including: J. Warby, S. Kidman and Co Ltd. and A.A. & P. Joint Holdings Pty Ltd.

In 2009 TUC established a Joint Venture with Panoramic Resources (PAN) which includes tenements EL24966 and EL24967. The joint venture involves expenditure of up to $9M by PAN on direct exploration on EL24966 and also expenditure of at least $50K on EL24967.

The expenditure covenant set for the fourth year was $38,800 although $50,000+ was planned to be spent under the Joint Venture.

4. GEOLOGY

EL 24967 is situated in the north eastern portion of the Tennant Creek SE 53-14 1:250,000 Geological Map Sheet. A full description of the most recent geological interpretation of the geology and stratigraphy of Tennant Creek region can be found in the 1:250,000 Tennant Creek Geological map series and explanatory notes (Donnellan, et al 1999).
The tenement area covers the top half of the north eastern portion of the Tennant Creek SE 53-14 1:250,000 Geological Map Sheet. The Palaeoproterozoic geology of EL24967 includes the Churchills Head Groups - Tomkinson Creek Subgroup (includes the Haywood Creek Formation) in the west and to the south the Flynn Subgroup (includes the Brumbreu Formation) further to the east Palaeozoic Cambrian is exposed as Gum Ridge Formation and Anthony Lagoon Beds subcrop (Figure 2). Extensive Alluvial Red soil plains channel through the centre of the tenement, these are flanked to the east by black soil plains and to the west by subcropping undifferentiated Haywood Creek Formation and Gum Ridge Formation.

The Haywood Creek Formation depositional environment is postulated to be Fluvial, intertidal/shallow marine. The Brumbreu Formation is interpreted to be a marginal marine to fluvial depositional environment. The Wundirgi Formation is predominantly subaqueous (deep water marine to littoral) with a minor subaerial component comprising felsic surge and fall deposits (Donnellan, et al 1999).

The structure within the south western portion of the tenement is most striking being synclinal Haywood Creek Formation. Faulting is mostly in a north west and south east direction.

There are no recorded MODAT occurrences within EL24967, however the Whippet Mine lies two kilometres south of the southern most boundary of the tenement. This was an abandoned gold mine. There is also a cluster of prospects/mines five to ten kilometres to the south west of the southern most boundary of EL24967.
Geopeko delineated the ‘Explorer 98’ prospect (location 19°08'40", 134°15'40"). The target was evaluated and found most likely to be a linear geophysical anomaly interpreted most likely to be a basic dyke. No further work was completed on this target.

5. PREVIOUS EXPLORATION

The eastern portion of EL1669 covered the south western segment of EL 24967. Uranerz Australia were prospecting for Vein like Uranium Deposits (Alligator River Type Uranium Deposits located near an unconformity) but received ‘no encouraging results’. Drilling showed that the magnetic features were dolerite sill/dykes. A Note was made that Uranium mineralisation has been reported in chloritised shales and been intersected in local gold mines. Uranerz also made the following observations:

- Predominantly thorium anomalies
- Basal Grit heavy metal accumulation underlying the ‘Blanche Creek Conglomerate are examples of dirty cross bedded sandstones with heavy mineral bands with readings up to 500cps.
- Laterite cover with readings up to 250cps, iron enriched purple brown arkosic sandstones with readings up to 125cps.
- Ironstones eg at Last Hope Mine have readings up to 125cps.
- Possible dolerite sill north of the Last Hope Mine reading 250-300cps and small lamprophyric sills up to 150cps.

The extensive EL214 intersects six blocks of the southern most section of EL24967. Geopeko were exploring for Tennant Creek style Copper – Gold (+/- Bi) deposits. Explorer 76, 77 & 78 prospects (location 19°16', 134°15'00" to 134°17'00") fall within the tenement area where an elongate gamma anomaly corresponded with Basic sills.

EL215 covered a larger area of EL24967. Once again Geopeko were exploring for Tennant Creek style Copper – Gold (+/- Bi) deposits in the 1970s’. Most useful work completed would be the outcrop geology maps. Work on the tenement included multi element sampling, and structural review. Explorer 98 (location 19°08'40", 134°15'40") was evaluated within EL24967 and found by Geopeko to be a linear geophysical anomaly interpreted most likely to be a basic dyke. No further work was completed.

EL24015 was held by Red Metals Ltd for one year (2005). No work was completed during this period.
During the mid 1980’s **EL4248** was explored for diamonds by Ashton Mining and associates. 52 samples were taken, 12 gravel and 40 loam samples. No diamond indicator minerals were located.

**EL5409** was explored by Giants Reef Mining/ Western Mining in the period 1988 to 1992. EL5409 covers only three blocks of EL24967. Sampling was difficult to locate on current mapping tools. EL5409 was stream sediment sampled with one location identified but discounted as the distribution of values indicated that the samples had been contaminated by windblown sediment from the Whippet Mine dumps.

**EL5493** was explored by Giants Reef Exploration/ Western Mining in the period 1988 to 1992. Ground was relinquished because the Tomkinson Creek Group and Cainozoic cover was considered 'unprospective'.

**EL7653** was incorporated in SEL7716 and no work was completed on the tenement during its tenure by Giants Reef Exploration/ Western Mining.

Giants Reef Exploration/ Western Mining completed extensive exploration across **SEL7716** during the 1990s. However this tenement only covers six graticular blocks of EL24967. The region was covered by gravity – ground magnetic – IP and soil gas surveys as well as aeromagnetics. A bouger gravity anomaly map shows no anomalism in the EL24967 region. Sampling was completed out of the tenement area but may prove relevant because of its proximity to EL24967. The sampling was completed over an area to the north of the Whippet Mine. These samples were analysed using the ‘regoleach’ partial extraction method. The sampling did not delineate any gold values but a strong linear Bismuth anomaly was thought to be associated with dispersion from the Whippet Mine Tailings dump. Other Bi anomalies were noted as well as Cu-Pb anomalism. No further work seems to have been completed on these anomalies. The ‘Drillsteel’ target was north of the Whippet Mine (but no exact location was determined) and is highlighted as a follow up target by Giants Reef Exploration. The prospect was located using rockchipping ironstone exposure and showed some Bismuth anomalism. Thoughts included that the exposure may be deep extensions of the Whippet Mine mineralising system. No follow up was completed during this tenure.

**EL7761** was held by Poseidon Gold during 1993-1994. Extensive aeromagnetics were completed and the interpretation revealed a complex folding and faulting pattern. Twenty two stream sediment samples were taken and analysed by BCL – no anomalous values were obtained and the ground was relinquished with the interpretation of extensive cover in the tenement.
EL8733 was held by North Flinders Mines during 1995. NO work was completed during this period.

EL8775 covers one graticular block of EL24967. The ground was held by Normandy/Poseidon Gold for 1996-1997 period. A gravity survey was completed (during 1991-1993) with one anomaly outlined (134°15’, 19°15’). Underlying geology of Flynn sub group and Tomkinson Creek Group were not thought prospective and so relinquished.

EL9180 covers five graticular blocks of EL24967. Normandy Gold held the ground over the 1997 period. Tenement was sampled by vacuum drilling with ‘negative’ results. Although Au, Cu and Bi anomaly is low, Fe in places ranges from 10 to 15%. A magnetic ridge within the tenement was determined to be a dolerite dyke. The section of vac drilling within EL24967 was referred to as the “Eiger” Prospect. Drillhole locations were found within the NTGS Explorer database and recorded in Appendix 2.

Carpentaria Gold and Giants Reef exploration found little to explore for in EL9296, interpreting the tenement as being underlain by unprospective granite.

EL9499 was explored by Normandy Gold commencing 1997. Aeromagnetic covered a small area but included Radiometrics (Uranium, Thorium and Potassium).

6. EXPLORATION BY TUC

In the first two years of EL24967 tenure Territory Uranium compiled the previous exploration work (above) as well as mapping the stratigraphy in the area and obtaining samples for geochemical analysis 13 samples were taken and some samples showed elevated levels of phosphate with a spatial association with areas of outcropping and sub-cropping phosphate prospective rocks, including the Anthony Lagoon, Gum Ridge and Montejinni rock sequences. Field observations suggested that the rocks in these locations were of a more bio-siliceous nature upgrading the potential to host phosphate.

Work completed during the third year of tenure consisted of 11 Soil Samples and 7 Rock Chips over a magnetic anomaly. Results for the program were disappointing; however one sample came back with anomalus values for Cu (215ppm), As (200ppm) and Zn (115ppm).
7. EXPLORATION FOR YEAR 4

Exploration planned for year 4 included approximately +1,000m of RAB drilling on a broad spaced pattern to test for Phosphate potential over areas of suitable stratigraphy. This program was to be drilled early in the year (2010) in conjunction with drilling on EL24966.

Unfortunately identification of a restricted work area (RWA) by the AAPA over a large portion of EL24966 resulted in delays to the commencement of TUC’s Tennant Creek exploration programmes for 2010. Drilling at Tennant Creek was planned to commence in March 2010 but a meeting with the CLC and traditional owners could not be held until June 2010 (which was successful and resulted in permission to drill two holes within the RWA on EL24966). The delays resulted in the planned RAB program not being drilled in year 4.

TUC intends to complete this program early 2011 and has commenced preparations for drilling, with land owner permission sought and granted (see drill proposal sent to landowner Appendix 1) and preliminary reconnaissance of access tracks and site preparation requirements already completed (early year 5).
8. REFERENCES

Appendix 1 – Document sent to Landowner for Permission to drill.
See attached file:

- EL24967_2010_A_02_BrunchillyStationDrillProposal.pdf