



Titleholder: Predictive Discovery Limited

Operator: Predictive Discovery Limited

Titles/Tenements: EL 28494

Final Report

Tenement Manager/Agent: AMETS

Corporate author: Predictive Discovery Limited

Target Commodities: uranium and gold

Date of report: 12 June 2012

Datum/Zone: GDA94/Zone 53

250 000 Map sheet: Calvert Hills

100 000 Map sheets: Coanjula

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Summary

Predictive Discovery Limited (**PD**) applied for EL 28494 for uranium and gold mineralisation based on strong similarities in the geological setting there with that of the large Westmorland uranium field in Queensland.

The planned exploration program on this EL was designed to complement work on the adjacent EL24645, and especially a target zone which overlapped onto EL28494. Unfortunately, drilling on EL24645 failed to discover uranium mineralisation in any of the target areas. Consequently, the planned work program which had been scheduled for the 2012 dry season did not go ahead.

Location and Access

EL28494 consisted of 5 sub blocks and was granted on the 29th July, 2011, for a period of 6 years. The EL covers 16.4 sq. km and is located within Benmara Pastoral station, south of the Calvert Road.

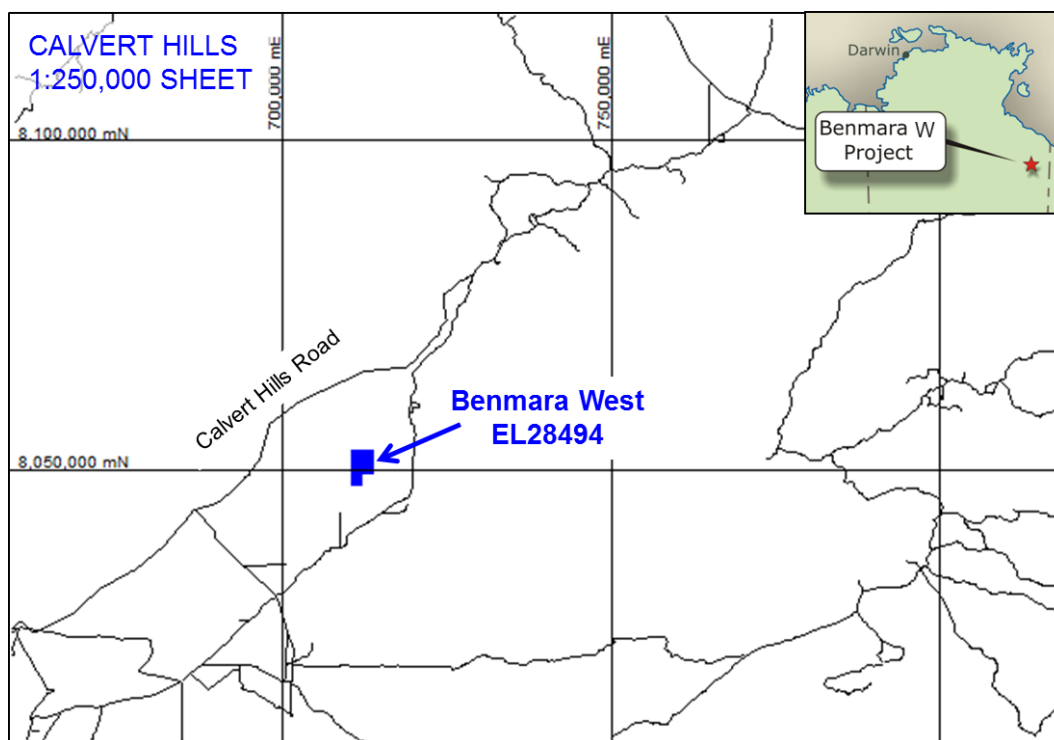


Figure 1: EL28494 - Locality Plan. Coordinates are for AMG Zone 53, datum GDA94.

The climate is sub-tropical, with wet summers and warm dry winters. Heavy rainfall during the summer months can cause substantial access problems, with vehicular access into the principal areas of interest is effectively impossible between December and March and sometimes for several months either before or after that period.

Geological Setting

The Benmara area is underlain by rocks of the McArthur Basin resting unconformably on granites and metamorphic rocks of the Murphy Inlier.

Within EL28494, the Proterozoic stratigraphy is overlain by Cambrian fluvial sediments, the Bukalara Sandstone, and Quaternary cover. Murphy Inlier rocks crop out south-east of the EL; they are known to contain anomalous uranium values and uranium mineralisation, including Anomaly 1 (Lally and Bajwah, 2006).

The local geology is illustrated in Figure 2.

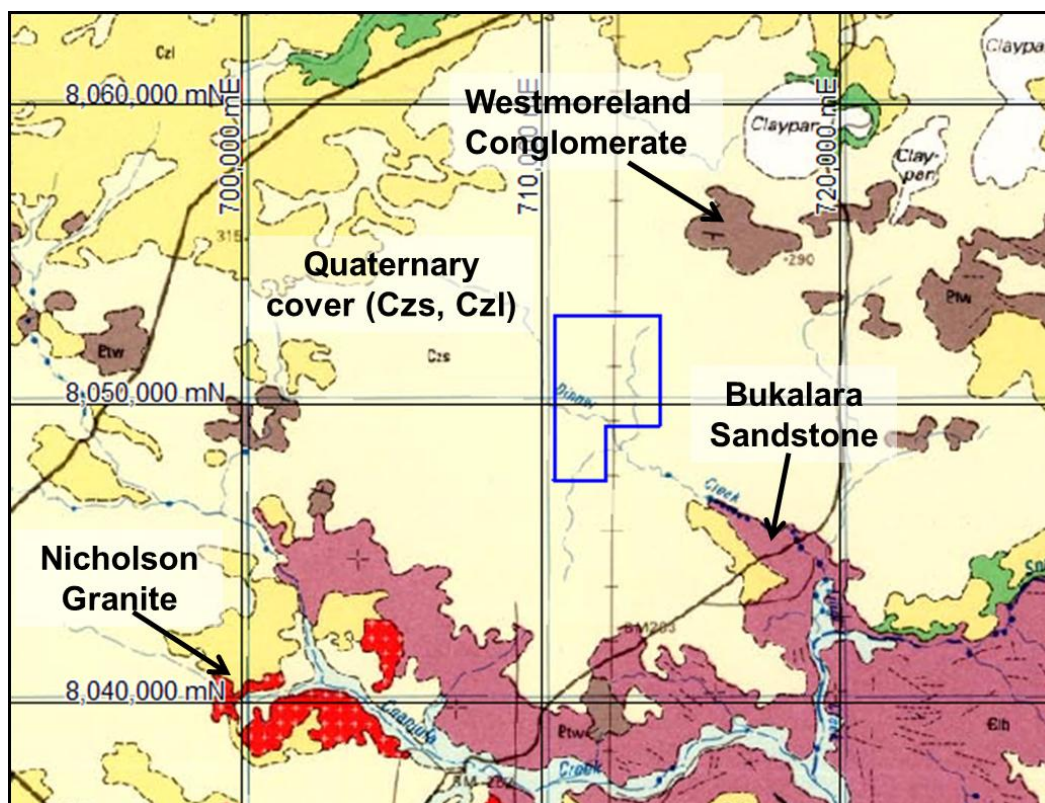


Figure 2: Geology of EL28494 and surrounding region, from the Calvert Hills 1:250,000 Geological Map (Ahmad and Wygralak, 1989). Coordinates are for AMG Zone 53, datum GDA94.

Mapped faults in the Murphy Inlier generally strike west to north-west, however the majority of the McArthur Basin sediments are concealed under cover and therefore structure in those rocks can only be inferred from regional geophysical data. Figure 3 shows a first vertical derivative image of regional magnetic data indicating the location of some of the major geological features inferred to be present under Cambrian and more recent sedimentary cover. In particular:

1. The Westmoreland Conglomerate outcrops north-east of the EL and has a demonstrably subdued magnetic character.
2. The Siegal Volcanics do not outcrop in the immediate area, however are inferred underneath Cambrian and Recent cover on the basis of a characteristically rugged character in first vertical derivative magnetics which can be observed in areas where they do outcrop and their stratigraphic relationship with the Westmoreland Conglomerate, which does outcrop in the area.
3. A north-east trending structure is interpreted to cut through the EL.

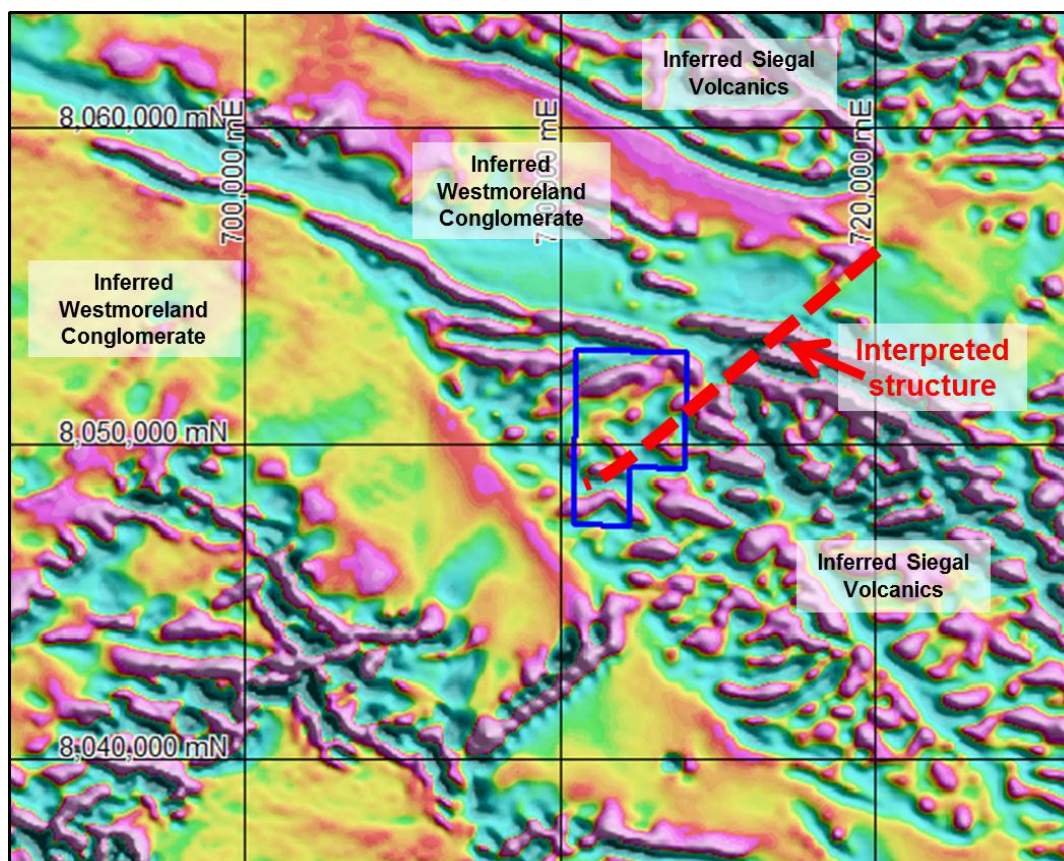


Figure 3: First vertical derivative regional magnetic data of the Benmara area. Inferred geological features, which are largely concealed under post-mineral cover, are annotated. Coordinates are for AMG Zone 53, datum GDA94.

Previous Exploration

Given the small area and the complete lack of outcrop, the area has seen little exploration. As far as the Company is aware, no uranium exploration has been carried out in the immediate area with the historic focus being on uranium anomalies in the Murphy Inlier. Past diamond exploration in the covered areas was undertaken by Stockdale Prospecting and Ashton Mining; a number of microdiamond anomalies were found in the surrounding area.

2011-12 Exploration Program

Apart from limited data compilation and completion of this report, no work was carried out on the EL prior to its surrender. A limited gravity survey and reconnaissance geological inspection had been planned, however this was dependent on obtaining encouraging results from a program of drilling on the neighbouring EL24645. No such encouragement was obtained and therefore a field program of uranium exploration on this EL could not be justified.

2010-11 Exploration Expenditure

Exclusive of tenement rentals and tenement management fees, expenditure on the EL during the year was \$1,042, broken up as follows:

Cost category	Amount (\$)
Personnel (staff and consultants)	1,042
TOTAL:	1,042

References

Ahmad, M and Wygralak, A S, 1989: Geological map: 1: 250,000 Sheet (SE53-08 Calvert Hills)

Lally, J H and Bajwah, Z U, 2006: Uranium Deposits of the Northern Territory. *Northern Territory Geological Survey, Report 20, 87p.*