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250,000 mapsheet	HELEN SPRINGS SE53-10
100,000 mapsheet	BRUNCHILLY 5760
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ABSTRACT

This report describes exploration activities during the fourth year of tenure for EL26687 (Attack Creek prospect). The tenement was granted on 24 October 2008 for a period of 6 years and currently comprises 72 blocks, as a total of 24 blocks were relinquished in November 2011. The Attack Creek prospect is a joint venture between Minemakers Australia Pty Ltd (MAPL) and Geotech International Pty Ltd. Exploration is aimed at the discovery of economic phosphate deposits proximal to the Alice Springs-Darwin railway. Such deposits are known to occur in shallow marginal marine sediments at the western edge of the Georgina Basin, similar to MAPL's Wonarah project located approximately 200km to the east-southeast. The prospect is 80km east-northeast of Tennant Creek and 30km east of Stuart Highway and lies on the 1:250,000 HELEN SPRINGS SE53-11 and the 1:100,000 BRUNCHILLY 5760 map sheets. Land use is dominated by cattle grazing over generally flat to undulating land with elevations between 240-280m. The geology in the immediate area consists of Palaeoproterozoic Tomkinson Creek Group, a dominantly arenaceous sequence, particularly in the basal portions, with siltstone and shale more important in the upper portions. This stratigraphy is overlain by undeformed Middle Cambrian sedimentary rocks. Early Cambrian lithologies are represented by the Helen Springs Volcanics that consist of amygdaloidal tholeiitic basalt and a basal sandstone unit. The Middle Cambrian Gum Ridge Formation was deposited in shallow shelf epicontinental seas subject to episodic peritidal influence. Lithologies consist principally of limestone and associated phosphorite units. A brief reconnaissance of existing tracks was completed to facilitate planning of a proposed RC drill program.

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1. INTRODUCTION

This report describes exploration activities during the fourth year of tenure for EL26687, Minemakers Australia Pty Ltd's (MAPL), Attack Creek prospect (Figure 1). MAPL is a wholly owned subsidiary of Minemakers Limited which listed on the ASX on 10 October 2006. Exploration is aimed at the discovery of economic phosphate deposits proximal to favorable infrastructure, particularly the Alice Springs-Darwin railway. Such deposits are known to occur in shallow marginal marine sediments at the western edge of the Georgina Basin, similar to MAPL's Wonarah project located approximately 200km to the east-southeast.

2. LOCATION

EL26687 is located 80km east-northeast of Tennant Creek in the Northern Territory and 30km east of Stuart Highway. The tenement lies on the 1:250,000 HELEN SPRINGS SE53-11 and the 1:100,000 BRUNCHILLY 5760 map sheets. The centroid of the tenement falls close to 134°15'E and 18°53'S and covers generally flat to undulating land within two pastoral properties, viz. Banka Banka and Brunchilly owned by S. Kidman & Co. Ltd, Adelaide, South Australia. Land use is dominated by cattle grazing. GPS sample site elevations vary from a low of 248m to a high of 275m.

3. TENURE

EL26588 covered 96 blocks (311.9km²) and was granted on 24 October 2008 to Geotech International Pty Ltd (Geotech) for a period of six years. A partial relinquishment comprising 24 blocks occurred in November, 2011 and the tenement now consists of 72 blocks. A joint venture agreement between Minemakers Australia Pty Ltd and Geotech was signed on 12 May 2009. The agreement provides participating interests for MAPL (80%) and Geotech (20%).

Field exploration activities are subject to consultations with the pastoral lessee and, through the Northern Land Council, with the Native Title claimants (Banka Banka Native Title Claim NTD 6005/01).

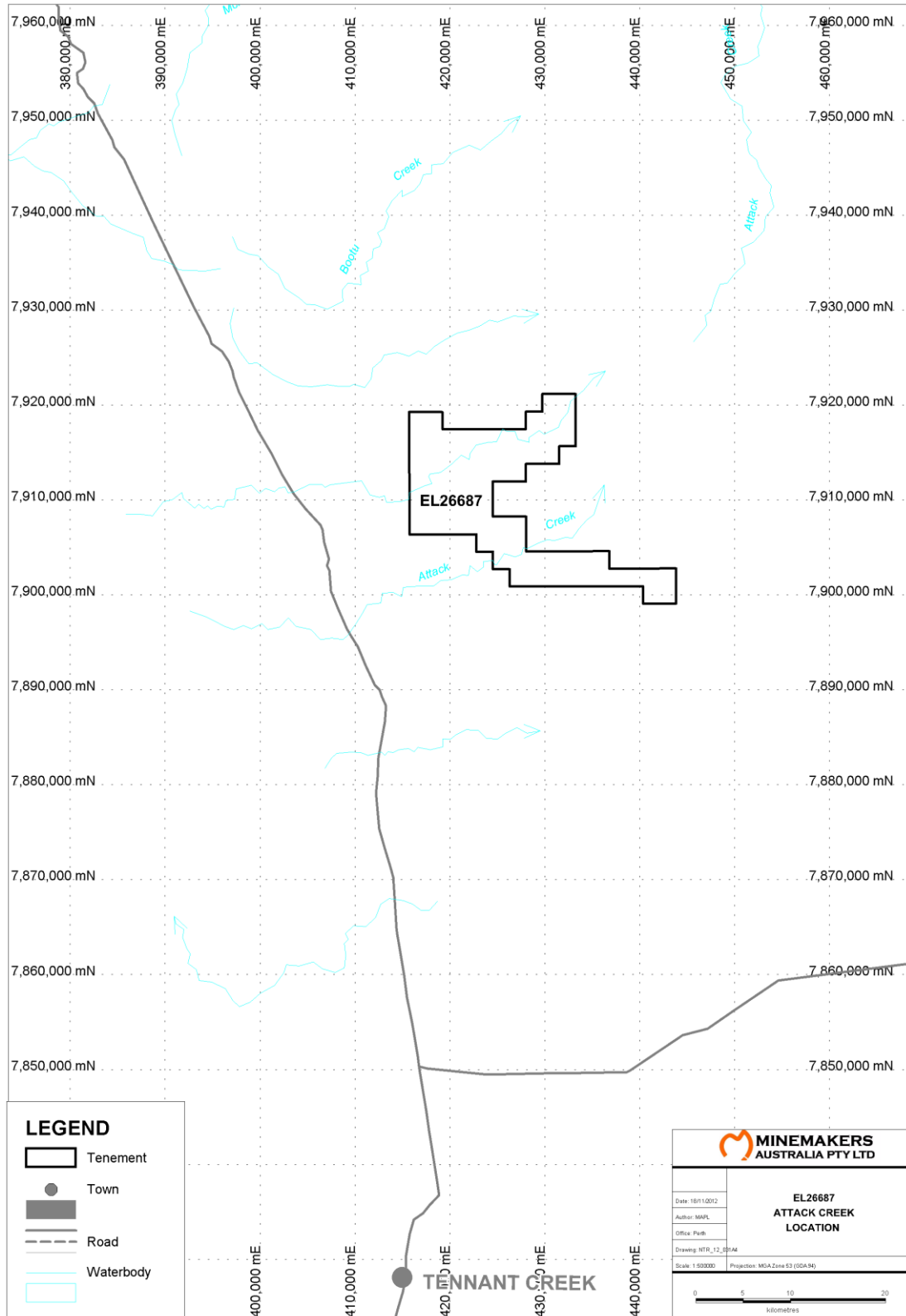


Figure 1: Location of EL26687.

4. GEOLOGY

The Attack Creek prospect is located on the eastern edge of the Palaeoproterozoic Tomkinson Creek Group, a dominantly arenaceous sequence particularly in the basal portions with siltstone and shale more important in the upper portions (Donnellan, 2004). This stratigraphy is overlain by undeformed Middle Cambrian marine sedimentary rocks that comprise the western edge of the Georgina Basin which has been divided into two sub-basins called Barkly and Undilla (Figures 2 and 3). Early Cambrian deposition is represented by the Helen Springs Volcanics that consist of amygdaloidal tholeiitic basalt and a basal sandstone unit. These rocks unconformably overlie the Tomkinson Creek Group.

The Middle Cambrian Gum Ridge Formation was deposited in shallow shelf epicontinental seas subject to episodic peritidal influence. Lithologies consist principally of limestone that includes fine-grained sandstone, siliciclastic mudstone, bioclast, oncolite, stromatolitic and cryptomicrobial limestone, marly limestone, fossiliferous nodular chert; carbonate and evaporitic pseudomorphs (Hussey et al., 2001). Occasional trilobites, brachiopods and sponge spicules occur in this formation. There are a number of mapped exposures of Gum Ridge Formation in and adjacent to the tenement and geological mapping has identified a number of exposures of slightly younger and related Anthony Lagoon beds (op. cit.). Both of these units are capable of hosting phosphorite deposits.

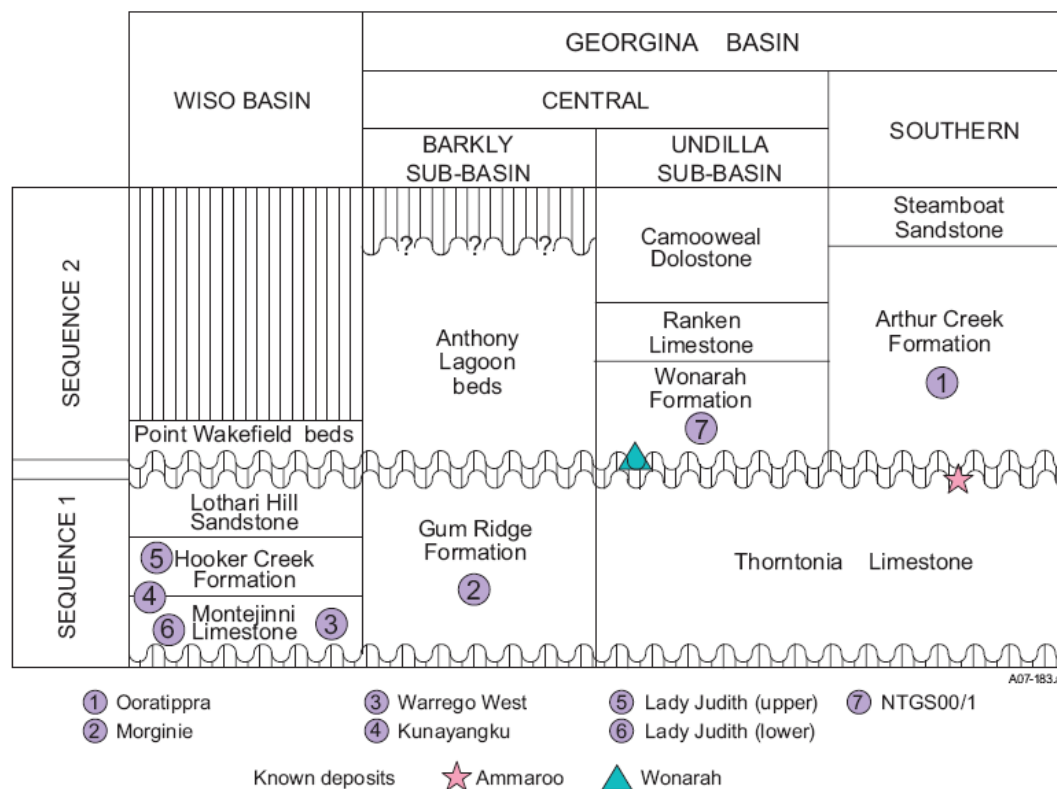


Figure 2. Stratigraphy and phosphate occurrences of the Georgina Basin (after Khan et al, 2007).

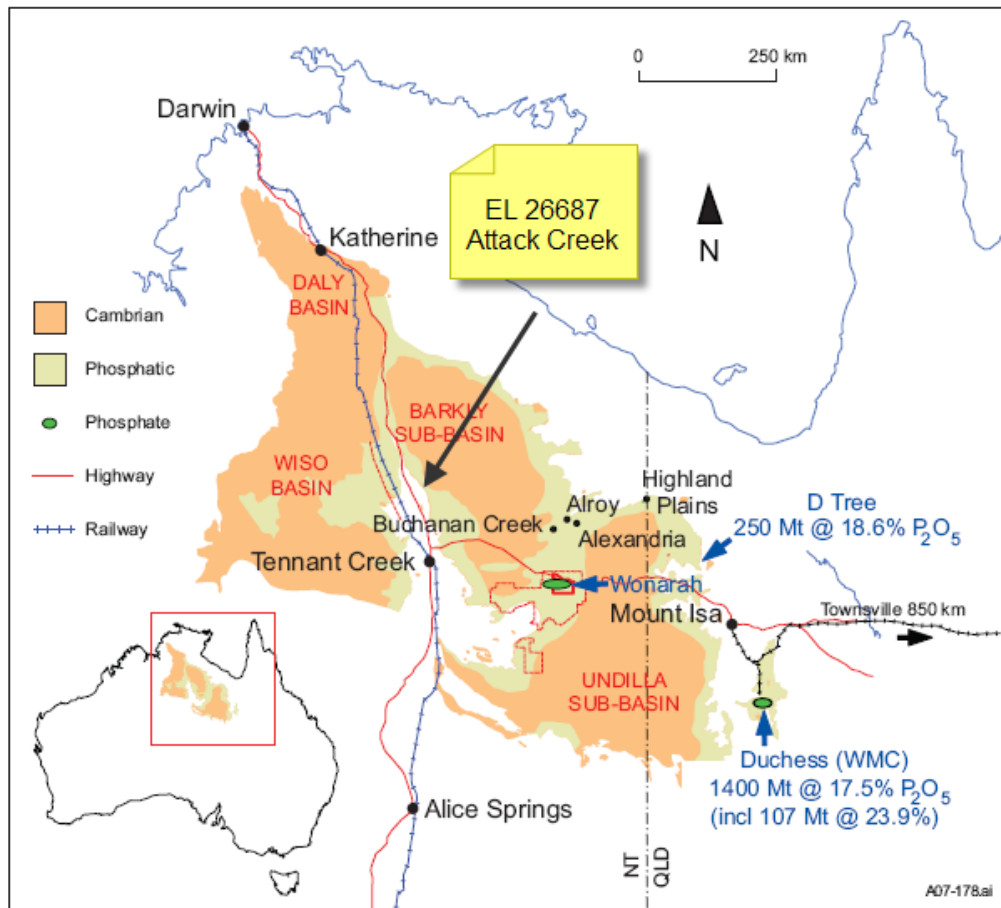


Figure 3. Location of EL26687 in the Barkly Sub-Basin of the Georgina Basin (after Khan et al, 2007).

5. WORK COMPLETED AND DISCUSSION

5.1 Reconnaissance

One day was spent looking at access tracks to potential drill sites on the tenement. The main access from Stuart Highway to Brunchilly Station is Brunchilly Road. This road is wide and well maintained but suffers damage in wet conditions. Tracks leading off from Brunchilly Road were found to be lightly to moderately overgrown with most tracks having suffered some damage from the extreme wet of 2011 and many sections still requiring work to make them passable for a drill rig.

6. CONCLUSIONS AND RECOMMENDATIONS

Drill sites originally chosen in 2010 may have to be relocated in order to avoid extensive track maintenance. It is proposed to complete a program of broadly-spaced RC drilling in 2013 to test for the presence of phosphate.

7. REFERENCES

Donnellan N (2004) Geology of the Tennant Region 1:500,000 scale. Northern Territory Geological Survey, Darwin and Alice Springs.

Hussey KJ, Beier PR, Crispe AJ, Donnellan N & Kruse PD (2001) HELEN SPRINGS SE53-10 1:250,000 Geological Series. Edition 2. Northern Territory Geological Survey.

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