2015-2016 (Year 6)
Partial Surrender Report for
EL 27412 ("Rosewood")

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Tenement Holders: Riding Resources Pty Ltd (50%)
Bralich Holdings Pty Ltd (50%)
Tenement: EL27412
Prospect Name: Rosewood
Reporting Period: 29 January 2010 – 28 January 2016 (Year 6)
Distribution: Bralich Holdings Pty Ltd (1)
Riding Resources Pty Ltd (1)
Geoscience.Info (DoR Minerals & Energy) (1)
Map Sheet: Waterloo 1:250,000 sheet (SE5203)
Newry 1:100,000 sheet (4765)
Target Commodity: Copper, Nickel
Keywords: Magnetic anomalies, Ground Gravity Survey, Airborne
Magnetic acquisition, literature review, Norilsk Ni-Cu model
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Summary

EL27412 lies 80km south-east of Kununurra WA, and encompasses a portion of the Rosewood Station. The tenement covers 2 small bullseye style magnetic anomalies adjacent to a regional NE trending fault. A literature review and magnetic interpretation confirmed the area is of interest and requires further follow up work. This area is retained.

Areas outside the twin magnetic anomalies were relinquished in accordance with the DME regulations. 28 blocks were surrendered on the third anniversary date in 2013. A further 19 blocks were relinquished on the sixth anniversary in 2016. 9 blocks have been retained.

1.0 Introduction

This report covers the six year of exploration conducted on the relinquished portions of EL27412. EL27412 "Rosewood Prospect" is located 80 km's south-east of Kununurra WA within the Waterloo 1:250,000 Geological Map Sheet (Fig.1.1). Access from Kununurra is via the Victoria Highway, and turning south down Duncan road and using station tracks thereafter. Access is best suited to the dry season.

![Figure 1.1 Location Map of EL27412](image-url)
2.0 Geology and Mineralisation

EL27412 is located in the Eastern Kimberley the Northern Territory. The tenement is situated within the Northern Wiso Basin, and is mostly covered by lower Cambrian flood basalts, part of the Antrim Plateau Volcanic sequence (sometimes referred to as the Kalkarindji Continental Flood Basalt, figure 2.1). Beneath the flood basalts is the Lower Cambrian Kinevans sandstone and Angalarri siltstone. A NE trending fault along Blackfellows Creek, appears to be a major structure.

Previous explorers in the region have targeted Ni-Cu mineralisation based on the Russian Norils’k deposit. There are few documented modat mineral occurrences on EL27412; most of the metal occurrences relate to small copper occurrences between the basalt and the younger mid Cambrian Headleys limestone to the west (figure 2.2).

Figure 2.1 Extract from Waterloo 1:250,000 Geology
There has been little historic exploration in the area, most of the work dealt with stream and loam sampling for Kimberlites. Some indicators have been found, but have mostly been attributed to the basalt cover. No kimberlite or macrodiamond has yet been discovered near EL27412.
3.0 Tenure

EL27412 was applied for on the 17th June 2009. The tenement lies on pastoral lease PPL1013 (Rosewood Station). Tenure details are shown below. As required by the mines department regulations 50% (28 blocks) was relinquished at the year 3 anniversary. A further 19 blocks were also relinquished at the end of the sixth anniversary in 2016. A two year term extension on the remaining 9 blocks has been lodged with the DME.

There is one registered Native Title Claim (NTD 6010/01) in the area.

3.0 Partial Relinquishment

During the first 6 years the following work was undertaken on the relinquished portions of EL27412:

Field mapping
Magnetic data acquisition and interpretation
Ground gravity survey
Literature review
The supporting data has been lodged with the DME with their annual reports.

The entire tenement is covered with basalt ranging from small hills to areas with little relief. The basalt was typical of flood basalt – flow top breccias, vesicular and homgeneous. The basalt was barren, however there are reports that some basalts host minor copper mineralisation in the region. No alteration, veining or gossanous material was observed on EL27412. There was no individual surface expression over the two magnetic anomalies.

Figure 4.1 TMI over EL27412.

The twin magnetic anomalies (which are probably deep seated) indicate that any targeting will be geophysically driven. Apart from the conceptual nature of exploring for Norilsk style mineralisation, there was little else to encourage further (near surface) exploration. The flood basalt has effectively blanketed EL27412 with a barren veneer that masks the subsurface geology. As a result the area to be retained includes the magnetic anomalies. The area outside the anomalies has little prospectivity and is therefore relinquished (Figure 4.2).
5.0 Rehabilitation

There were no earth disturbing activities on the tenement. No rehabilitation was required.
References


Hanley L, 1999. Geochemistry of the Antrim Plateau continental flood basalts. Research School of Earth Sciences - Tectonics Special Research Centre, Dept of Geology and Geophysics, University of Western Australia
