Redbank Copper Limited

Exploration Partial Surrender Report

EL 28289

Redbank Regional Project

For the period 19th April 2011 to 4th January 2016

Distribution:

Department of Mines and Energy NT

Redbank Copper Limited

3rd January 2016
**Tenement Operator:** Redbank Copper Ltd  
**Tenement Holder:** Redbank Operations Pty Ltd  
**Report Type:** Partial Surrender  
**Report Title:** Exploration Partial Surrender Report EL 28289  
**Tenements:** EL 28289  
**Report Period:** 19/04/2011 to 4/01/2016  
**Author:** Bruce Armstrong  
**Date of Report:** 03/01/2016  
**1:250 000 map sheet:** Wollogorang 6463 and Selby 6464  
**1:100 000 map sheet:**  
**Target Commodity:** Copper  
**Keywords:** Copper, Breccia Pipes  
**Prospects drilled:** Nil  
**List of Assays:** Nil  
**List of Elements:** Nil  

**SUMMARY**

Exploration Licence 28289 forms part of Redbank Copper Limited’s ‘Redbank Project’, located about 300km southeast of the township of Borroloola in the Northern Territory just off the Queensland border. The area selected for relinquishment is on the western side of the tenement covering an area underlain by recent drainage. Little is known about the underlying bedrock, but the thickness of cover is seen as an impediment to effective first pass surface geochemical exploration.

During the life of the surrendered portion of the tenement, no field work was completed. Open file geological data and data inherited from the previous tenement owner was compiled and reviewed. The surrendered portion is deemed to be the least likely area of tenement EL28289 to be prospective for copper mineralisation and as such was surrendered as required by the NT Department of Mines and Energy.

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1. INTRODUCTION

This report details exploration activities on EL 28289 between 19 April 2011 and 2 September 2014. The tenement is owned by Redbank Operations Pty Ltd a wholly owned subsidiary of Redbank Copper Ltd. The tenements forms part of the company’s Redbank Project which is centered on the historic copper mining operation at Redbank (Figure 1) where the company has infrastructure including mine camp and offices, airstrip that support the companies activities in the district. The mine site has been on care and maintaince for a number of years and is currently staffed by full time caretakers.

Redbank Copper Limited was suspended from the ASX between the period 24th November 2011 and 10th May 2013, whilst the company was restructured and raised funds along with a new management team. Since relisting the company has commenced regional geological compilation work and review, but has not undertaken any on-ground field exploration on the surrendered portion of EL 28289.

2.1 Location and Access

The tenement is located approximately 300 km south-east of the township of Boorooloola, and immediately west of the Northern Territory – Queensland border. Wollogorang Station in the center of the project area is the closest habitation.

Vehicle access is restricted to the main Borroloola – Wollogorang road and local station tracks. There is a 1200m airstrip at Redbank which can be used to access the project.

Topography is dominated by escarpment country with a maximum elevation of 226m. The well-developed dendritic drainage network is dominated by Settlement Creek, which drains to the north-east into the Gulf of Carpentaria. Vegetation consists mostly of open woodland and native grasses that support cattle grazing.

The tenement is on the Wollogorang Pastoral Station.

The area has a tropical climate with a wet season between November - March during which time access to and around the project can be blocked by flooding creeks; and a dry season between March and October during which time the majority of field operations occur.
1.2 Tenure

The tenement forms part of combined report group GR238 and is held by Redbank Operations Pty Ltd, a wholly owned subsidiary of Redbank Copper Ltd.

On 13 August 2014 a total of 4 blocks were nominated to be cancelled pursuant to S. 105(3) of the Minerals Titles Act for non-compliance with expenditures conditions of the Licence. Subsequently, on 2 September 2014 the 14 blocks were surrendered and 18 blocks remain.

Details of the partially surrendered tenement are provided below.

<table>
<thead>
<tr>
<th>Exploration License Number</th>
<th>Total Area Surrendered (HA)</th>
<th>Total Blocks Surrendered</th>
<th>Grant Date</th>
<th>Partial Surrender Date</th>
<th>Holder</th>
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</thead>
<tbody>
<tr>
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<td>655</td>
<td>2</td>
<td>19/04/2011</td>
<td>04/01/2016</td>
<td>Redbank Operations Pty Ltd.</td>
</tr>
</tbody>
</table>

Figure 2 shows the area surrendered.
2. GEOLOGY AND MINERALISATION

2.1 Regional Geology

EL 28289 is situated in the south-eastern portion of the Proterozoic McArthur Basin in the Northern Territory (Figure 3), on the Wearyan Shelf tectonic unit. The geological sequence comprises a mix of shallow water and continental sedimentary units intercalated with volcanics of the Tawallah Group which is the lowermost sequence within the Macarthur Basin sequence. The sequence has been intruded by various granitic bodies.

The McArthur Basin sequence contains the world class McArthur River lead-zinc deposit (227 Mt grading 9.2% zinc, 4% lead, 0.2% copper, and 41g/t silver) approximately 200 km northwest of the tenement. Locally, copper mineralisation associated with trachyte breccia pipes was mined historically at Sandy Flat and Redbank. Copper and uranium mineralisation is recognised within the Westmorland Conglomerate Formation to the south of the tenement and the Merlin Diamond field is situated approximately 250 km to the west.
2.2 Tenement Geology

The underlying geology of the surrendered portion of the tenement is unknown as it is mostly covered by recent drainage. A small area to the south includes the Masterton Formation (Figure 4).
Figure 4 Tenement Geology
3. PREVIOUS EXPLORATION

The tenement has had several phases of historic exploration for base metals as well as gold, uranium and diamonds since the 1940’s. Historic programs have included regional stream sediment surveying, field mapping aeromagnetic surveying and interpretation. No significant anomalism was identified by this work.

4. EXPLORATION BY REDBANK OPERATIONS PTY LTD

EL28289 was granted on 19 April 2011. Redbank Copper Limited was suspended from the ASX between the period 24 November 2011 and 10 May 2013, whilst the company was restructured and raised funds along with a new management team. Since relisting the company commenced regional compilation work, but has not undertaken any on-ground field exploration on the surrendered portion of EL 28289, as activities have focused predominantly on ELR94 where copper resources exist and also on improving the environmental issues caused by mining inherited from previous owners. Solving the environmental issues is key to the success of the company going forwards and therefore resources need to be focused there first.

EL 28289 has not met the minimum expenditure commitments and a loss of block penalty has been applied by the Northern Territory Department of Mines and Energy. A review of the past exploration and geology suggests areas to be relinquished area covers geology which is not particularly unprospective for copper mineralisation but the company has not completed any exploration over the area relinquished to make a considered assessment. However, due to the requirement for relinquishment, the Company has chosen the 14 blocks as most likely the least prospective compared to the remaining portion of the tenement.

5. REFERENCES


Giles A, Redbank Area NT, Summary of Geology, Past Production and Reserves, Redbank Copper Pty Ltd (unpublished).