NORTH RENNER SPRINGS

EXPLORATION LICENCE 23624

ANNUAL REPORT

FOR THE PERIOD

24th FEBRUARY 2003 TO 23rd FEBRUARY 2004

Helen Springs SE53-10 1:250,000 Sheet
Helen S660 1:100,000 Sheet

NORTHERN TERRitory

Dept. Business, Industry & Resource Development

30 APR 2004

Received: Titles Division
Minerals & Energy Group

R Vivian
April 2004

CR20040220
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1. SUMMARY

This report details exploration activities for manganese mineralisation conducted by Bootu Creek Resources Pty Ltd within the North Renner Springs (EL23624) area during the year ending 23rd February 2004.

Work comprised a site reconnaissance visit to examine possible host rock units to manganese mineralisation within the tenement. The prospective host rocks (Shillinglaw Formation) were identified in the northern and southern portions of the tenement, as described by Hussey et al (2001).

Based on these initial findings, further work is warranted to evaluate the economic manganese potential of these areas.

Proposed work will comprise reconnaissance mapping of prospective rock units and associated structures, rock chip sampling, and RAB drilling if warranted by the results from these initial activities.
2. INTRODUCTION

The report details exploration activities conducted by Bootu Creek Resources Pty Ltd within Exploration Licence area E23624 during the year ending 23rd February 2004.

Exploration Licence E23624, covering 22 graticular blocks or a total of 71.5 square kilometres, was granted for a 6-year term on 24th February 2003. The tenement is located approximately 25 km northwest of Renner Springs and 15 km west of the Stuart Highway (Figure 1).

Access to the tenement is from the south through EL9975, which is held by Bootu Creek Resources. A track established for a drilling campaign conducted mid last year within EL9975 runs to within about 3km of the southern boundary of the North Renner project area. From here, areas of interest within EL23624 were reached by navigating across country.

3. REGIONAL GEOLOGY

The regional geology is described in the 1:250,000 Helen Springs SE53-10 Explanatory Notes by Hussey et al (2001). The area under tenure is on the western side of the Helen Springs sheet, and large portions of the tenement is covered by Cainozoic and Quaternary sediments underlain by a number of Proterozoic units of the Namerinni and Renner Groups (Figure 2). The Proterozoic sediments have been gently folded into a series of regional N to NNW trending anticlines. Hussey et al (2001) noted NNW, NNE and NE – trending faults that form elongate fault blocks throughout the area.

4. LOCAL GEOLOGY

Outcrop of Proterozoic units is confined to the south central and northeastern portions of the tenement and comprises sediments of the Shillinglaw Formation.

This Formation comprises thin to medium bedded sandstone, siltstone, quartzic dolostone, dolostone; stromatolithic bioherms and chert.

Manganese in the tenement occurs as replacements of dolomitic siltstone, sandstone and dolostone occurring in the basal section of the Formation. These rocks form the focus to manganese exploration by Bootu Creek Resources in the tenement area.
5. EXPLORATION ACTIVITIES

Exploration during the year consisted of a literature review, acquisition of digital data from the NTGS, and a reconnaissance visit.

Concurrent with the 107 RC drillholes/2188m drilling programme undertaken in the adjoining tenement (EL9975), a reconnaissance visit was made to EL 23624 to establish access into the area and to inspect the manganese prospective rock units. The visit confirmed the occurrence of the rock units in the two discrete areas as described by Hussey et al., (2001), namely in the northeastern and southern sections of the tenement. Similarities with the rock units evaluated in the adjoining EL9975 indicate that the tenement has a continuing prospectivity for manganese mineralisation. The site visit has aided in the planning of next year's exploration activities.

6. YEAR 2 PROGRAMME

Proposed work during the second year will comprise reconnaissance mapping of prospective rock units and associated structures, rock chip sampling, and RAB drilling if warranted by the results from these initial activities. The budget for this work is estimated at $20,000.

7. EXPENDITURE

Expenditure for Year 1 exploration is detailed below:
Consultants - geological $1600
Airfares $550
Travel to site (vehicle hire, fuel) $455
Food and Accommodation $280
Field consumables $120
Office overheads $285
TOTAL $3290

8. CONCLUSIONS

The reconnaissance site visit confirmed the prospectivity of the tenement for manganese mineralisation. The mineralisation is associated with rock units of the Shillinglaw Formation. Further work is planned within the tenement.

9. REFERENCES