ANNUAL REPORT

EL28112 - Mt Bundy Project

For Period Ending 13 January 2012

Distribution:-

1. DOR Darwin NT
2. Crocodile Gold Australia, Humpty Doo

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EXECUTIVE SUMMARY

EL28112 is a tenement of the Mt Bundy exploration group located about 90 km SE of Darwin, along the Arnhem Highway. The tenement is situated adjacent to the Rustlers Roost mining lease. The licence was granted to Crocodile Gold in January 2011. Rum Jungle Uranium Limited has the rights to explore for uranium under an agreement with Crocodile Gold.

The tenement is made up of rocks of the Mount Bonnie Formation of the South Alligator group and the Burrell Creek Formation of the Finnis River group. The Mount Bonnie Formation is dominated by a shallow marine sequence of interbedded and graded siltstone, chert and greywacke with occasional BIF’s. The unit can be up to 600m thick and is generally iron rich and may be siliceous in places. The Mount Bonnie Formation hosts the Rustler’s Roost deposit. Conformably overlying the Mount Bonnie Formation is the Burrell Creek Formation interpreted as a sequence of fine to coarse marine sediments and appears to be part of continuous sedimentation process. Due to the lack of marker horizons and poor exposure the width of the unit is unknown but is thought to be >1000m. This Formation is considered prospective for large low-grade gold deposits and has the potential for small high-grade deposits.

During the reporting period, Taiga geological consultants conducted a review of historic geophysical data over the Mt Bundy project area. Scanning and collation of the reports and documents in the library at the Brocks Creeks exploration office was also undertaken. The scanned reports are currently being entered into a new reporting database which was set up by Mercator database consultants during the year.

During the 2012 exploration year, activities will include an ongoing review of historic geochemical and geophysical data, with reconnaissance field visits and geological mapping. Rock chip and soil sampling may be conducted if targets are identified. The scanning and collation of the reports and documents in the library at Brocks Creek exploration office will continue with the digital copies being uploaded to the new reporting database with the assistance of Mercator database consultants.
2 COPYRIGHT

This document and its content are the copyright of Crocodile Gold Australian Operations (CGAO). The document has been written by Marcelle Watson for submission to the Northern Territory Department of Resources as part of the tenement reporting requirements as per Regulation 87 of the Minerals Titles Act.

Information discussed in this report pertaining to the exploration conducted by a joint venture partner, has been done so with the full knowledge of the JV Company; in this case Rum Jungle Resources Pty Ltd.

Any information included in the report that originates from historical reports or other sources is listed in the “References” section at the end of the document.

This report may be released to open file as per Regulation 125(3)(a).
3 INTRODUCTION

EL28112 is a tenement of the Mt Bundy exploration group located about 90 km SE of Darwin, along the Arnhem Highway. The tenement is situated adjacent to the Rustlers Roost mining lease. The licence was granted to Crocodile Gold in January 2011. Rum Jungle Uranium Limited has the rights to explore for uranium under an agreement with Crocodile Gold.

This report documents the exploration activities conducted from 14 January 2011 to 13 January 2012.

4 LOCATION AND ACCESS

EL28112 is situated 90km SE of Darwin NT along the Arnhem Highway. Access to the tenement is via the Rustler’s Roost access road leading from the Arnhem Highway, and then via secondary tracks. These tracks provide good access for 4WD vehicles during the dry season, however these tracks become impassable after heavy rain, and therefore no access is possible throughout the wet season.

Figure 1 shows the location of EL28112.

5 TENEMENT DETAILS

EL28112 was granted to Crocodile Gold on 14 January 2011 and expires on 13 January 2013. The tenement is 1 block in size covering 3.35km². Rum Jungle Uranium Limited has the rights to explore for uranium over the Mt Bundy tenements in agreement with Crocodile Gold Australia.

The tenement is located on Perpetual Pastoral Lease 1163 and falls within the Darwin 1:250,000 mapsheet and on the Noonamah 1:100,000 mapsheet.
Figure 1: EL28112 Tenement Location
6 GEOLOGICAL SETTING

6.1 REGIONAL GEOLOGY

EL28112 is located within the Archaean to Palaeoproterozoic Pine Creek Orogen, one of the major mineral provinces of Australia. The Pine Creek Orogen is a deformed and metamorphosed sedimentary basin up to 14 km maximum thickness covering an area of approximately 66,000 km$^2$ and extending from Katherine in the south to Darwin in the north. It hosts significant resources of gold, uranium and platinum group metals (“PGMs”), as well as substantial base metals, silver, iron and tin-tantalum mineralization.

The Pine Creek Orogen comprises series of late Archaean granite-gneiss basement domes, which are overlain by a fluvial to marine sedimentary sequence. Several highly reactive rock units are included within this sedimentary sequence including carbonaceous shale, iron stones, evaporite, carbonate and mafic to felsic volcanic units of the South Alligator and Finniss River Groups. This sequence has been subjected to regional greenschist facies metamorphism and multiphase deformation, which has resulted in the development of a northwest trending fabric. Subsequent widespread felsic volcanism and the intrusion of granitoids caused contact metamorphism, in aureoles between 500 m and 2 km wide that overprint the earlier regional metamorphism. After the granitoid intrusions an extensive array of northeast and northwest trending dolerite dykes intruded the metasedimentary sequence during regional extensional deformation.

Gold mineralization within the Pine Creek Orogen is preferentially developed within strata of the South Alligator Group and lower parts of the Finnis River Group along anticlines, strike-slip shear zones and duplex thrusts located in proximity to the Cullen Granite Batholith. Of particular stratigraphic importance are the Wildman Siltstone, the Koolpin Formation, Gerowie Tuff, Mount Bonnie Formation and the Burrell Creek Formation.
Figure 2: EL28112 Regional Geology
6.2 Local Geology

The tenement is made up of rocks of the Mount Bonnie Formation of the South Alligator group and the Burrell Creek Formation of the Finnis River group.

The Mount Bonnie Formation is dominated by a shallow marine sequence of interbedded and graded siltstone, chert and greywacke with occasional BIF’s. The unit can be up to 600m thick and is generally iron rich and may be siliceous in places. The Mount Bonnie Formation hosts the Rustler’s Roost deposit.

Conformably overlying the Mount Bonnie Formation is the Burrell Creek Formation interpreted as a sequence of fine to coarse marine sediments and appears to be part of continuous sedimentation process. Due to the lack of marker horizons and poor exposure the width of the unit is unknown but is thought to be >1000m. This Formation is considered prospective for large low-grade gold deposits and has the potential for small high-grade deposits.
7 EXPLORATION ACTIVITY YEAR ENDING 13 JANUARY 2012

Taiga geological consultants conducted a review of historic geophysical data over the Mt Bundy project area. Scanning and collation of the reports and documents in the library at the Brocks Creeks exploration office was also undertaken. The scanned reports are currently being entered into a new reporting database which was set up by Mercator database consultants during the year. This work is ongoing.

Rum Jungle did not carry out any exploration activities.

A total of $1,157 was spent on EL28112 during the reporting period.

8 FORWARD PROGRAM YEAR ENDING 13 JANUARY 2013

During the 2012 exploration year, activities will include an ongoing review of historic geochemical and geophysical data, with reconnaissance field visits and geological mapping. Rock chip and soil sampling may be conducted if targets are identified. The scanning and collation of the reports and documents in the library at Brocks Creek exploration office will continue with the digital copies being uploaded to the new reporting database with the assistance of Mercator database consultants.

A minimum budget of $11,000 is proposed for the EL28112 for the next reporting period.
REFERENCES