



COMPASS RESOURCES LTD

ABN 51 010 536 820

HEAD OFFICE

Level 5

384 Eastern Valley Way

Roseville NSW 2069

Telephone: 02 9417 3588

Facsimile: 02 9417 8750

email: admin@compassresources.com.au

website: www.compassresources.com.au

EL 27638 – Miles Road

Annual Report for the period

28 May 2010 to 27 May 2011

Author: G. Johansen
(garry.johansen@compassresources.com.au)

July 2011

Batchelor 1:100,000 Sheets
MGA 94 Zone 52

CONTENTS

Introduction	3
Tenement Details	3
Access	3
Geological Setting	3
Previous Exploration	4
Work Completed in Year 1	4
Plans for Year 2	5
References	6
Expenditure Report	7

List of Figures

Figure 1: Tenement location map for EL 27638.

1. INTRODUCTION

This tenement is considered prospective for uranium, gold and base metal sulphide mineralisation. During the reporting period the tenement was flown with detailed airborne magnetics and AEM to help define potential drill targets.

2. TENEMENT DETAILS

An application for this exploration licence of 3 blocks (2.76 square kilometres) was made on 15 September 2009. This area was granted as EL 27638, effective 28th May 2010. Compass Resources Ltd has 100% ownership of the tenement.

The tenement is located on the Pine Creek 1:250,000 map sheet (5270), Batchelor 1:50,000 and Rum Jungle 1:50,000 topographic maps (5171-4 and 5071-1 respectively).

3. ACCESS

Access to the general area is by following Miles Road south from Batchelor with the tenement located to the north and east of the historical Gould Airstrip. Only minor tracks exist in the tenement with much of the area impassable in the wet season.

4. GEOLOGICAL SETTING

This tenement is located approximately four kilometres south-east of Batchelor on the eastern side of the Archaean Waterhouse complex. Basement rocks are shales of the Lower Proterozoic Whites Formation (the underlying Coomalie Dolomite outcrops to the north and west of the tenement). To the east the Whites Formation is overlain by units of the Mid-Proterozoic Burrell Creek Formation.

The boundary between the Lower and Mid-Proterozoic units is a series of bedding parallel thrusts that are often intruded by Zamu Dolerite. To the north of the tenement the boundary between the Whites Formation and Coomalie Dolomite is also a thrust (represented by extensive development of HQB).

Outcrop is poor in the area, with some lateritisation and both Tertiary sediments and recent alluvium obscuring much of the basement rocks.

5. PREVIOUS EXPLORATION

During the period 1950-1992, the area was covered by a variety of regional surveys with more detailed work undertaken by Pancontinental (1975-79), Marathon (1980) as the tenement covers the northern extension of the Waterhouse No.4 Uranium anomaly. A total of seven shallow, vertical percussion drill holes were completed targeting uranium mineralisation.

Aztec Mining held the area in the period 1992-1998. Work by Aztec included stream sediment sampling, soil and rock chip sampling. They also completed a large detailed aeromagnetic and radiometric survey of the general region including EL 27638.

6. WORK COMPLETED IN YEAR 1

Compass Resources has compiled all historical exploration data for the Rum Jungle Mineral Field into a true GIS system. Exploration drilling data was collated and entered into the Datashed database and evaluated using ARC GIS and Micromine. In addition all historical maps relevant to EL 27638 were geo-referenced in ARC.

As mentioned above the database contains seven historical drill holes within the Miles Road tenement.

The detailed aeromagnetic and radiometric surveys flown by Aztec in the 1990s were merged with the regional geophysical data sets and reprocessed.

One of the prime benefits of compiling so much historical exploration data is that it generates a better understanding of both the regional geology as well detailed geology of individual prospects. At Rum Jungle this has resulted in a complete re-think of the timing and controls to mineralisation.

Based on the review of the historical exploration data there are two distinct primary mineralisation events at Rum Jungle:

- (a) Lower Proterozoic stratiform base metal event (Browns, Area 55, possibly Mt Fitch sulphides)
- (b) Mid Proterozoic structurally controlled uranium-gold-platinoid-base metal event (all other prospects).

The mid Proterozoic event is associated with a series of stacked, essentially bedding parallel thrust surfaces. These surfaces are characterised by extensive zones of brecciation and variable but often intense hydrothermal alteration. Alteration includes silicification, haematite dusting, specular haematite, apatite, chlorite and disseminated pyrite. Extensive sills and non-concordant bodies of Zamu dolerite intrude along the thrust sheets and these are also variably altered and provide some age constraints on the structural and mineralising events.

Given the improved understanding of the prospectivity of EL 27638 it was decided to fly the area of the tenement (along with all other Compass tenements at Batchelor) with helicopter borne aeromagnetics and EM. The survey was completed by GPX Surveys in late 2010 with flight lines at 150m spacing, orientated east-west and with a terrain clearance of 30m. East-west tie lines were spaced at kilometre intervals. This generated approximately 20 line kilometres of data within EL 27638.

Processing of the data commenced in early 2011 and unfortunately an error was detected in the helicopter altimeter readings used in the survey requiring correction and considerable reprocessing. At the time of writing this report the error in the data had finally been rectified and the data was at a consultant geophysist being processed. Compass Resources was yet to receive the final, corrected data from this extensive survey.

7. PLANS FOR YEAR 2.

Upon receipt of the final geophysical data magnetic and electromagnetic targets will be selected for ground follow up and drilling.

Expected expenditure is anticipated to exceed \$8,000.00.

REFERENCES

Ahmad, M., 1971

Rum Jungle Area, Annual Report. *Unpublished Report for Queensland Mines Ltd. NTDME Library Open File Record No. CR71/115*

French, D.J., 1974

EL 610 - Area J - Rum Jungle, Results of Exploration - 1973 Part 1 - Waterhouse No. 4 *Unpublished Report for CRA Exploration Pty. Ltd. NTDME Library Open File Record No CR 74/166A & B.*

Johnson, K., Hone, I.G., Ingram T.A & Crick, I.H., 1979

Stratigraphic Drilling in the Rum Jungle Area N.T. 1973-74. Geological and Geophysical Results. *BMR Record No. 1979/89*

Lally, J. H., 2002

Stratigraphy, structure and mineralisation, Rum Jungle Mineral Field, Northern Territory. NTGS Record 2002-005

EL 27638 EXPENDITURE REPORT

For Year Ending 27 May 2011

	\$
Salaries & Wages	2,400
Consultants	1,560
Geophysical Surveys	7,000
Other	750
Total Expenditure	\$11,710

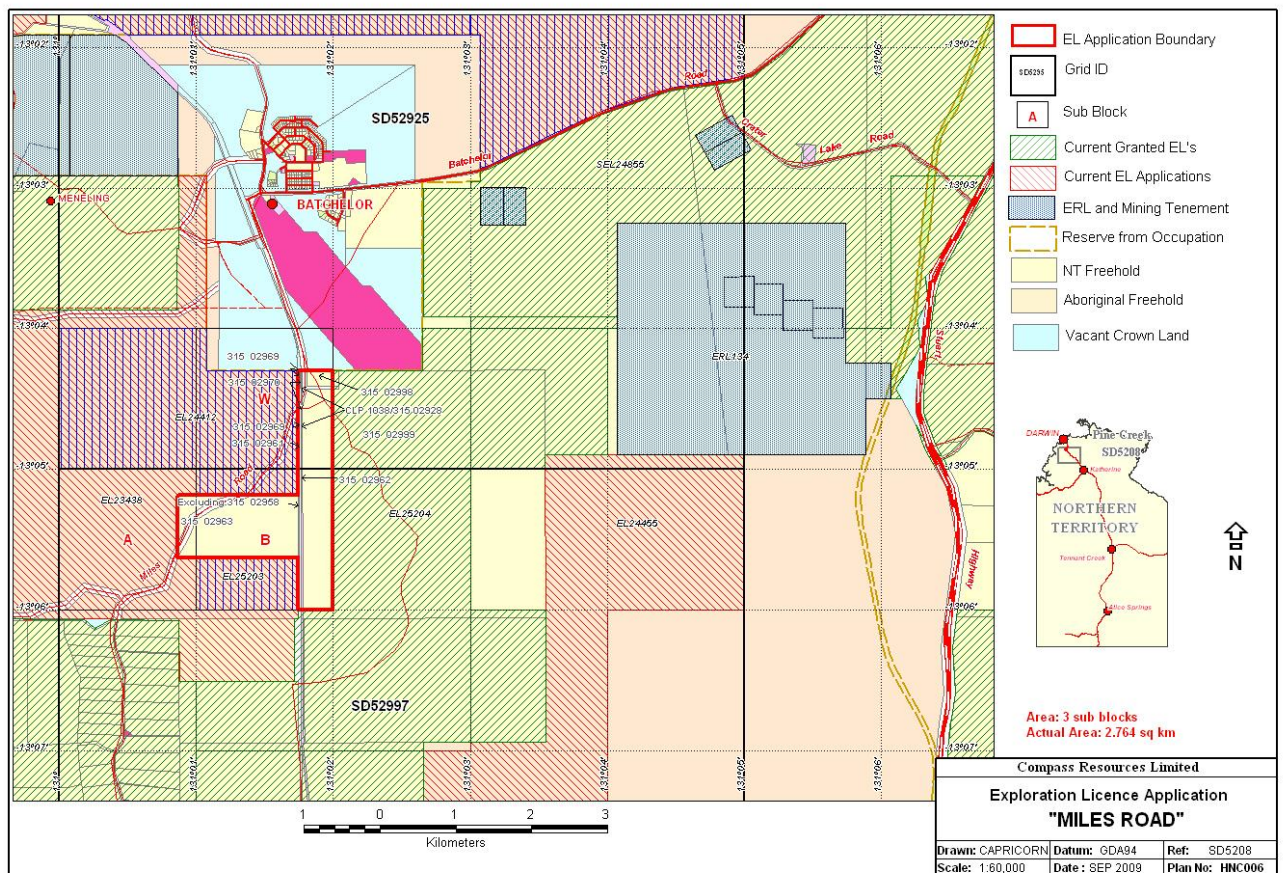


Figure 1. Tenement location map for EL 27788.