

# EPM18865

## Amber Creek

ANNUAL REPORT FOR THE PERIOD ENDING 12<sup>TH</sup> JUNE 2013

GEOFF REED

**Breakaway Mining Services Pty Ltd**

Suite 505, 35 Lime Street  
Sydney NSW 2000  
Australia

For

**Oldfield Exploration Pty Ltd**

Suite 505, 35 Lime Street  
Sydney NSW 2000  
Australia

Submitted by:

RACHEL SZABO

**Breakaway Mining Services Pty Ltd**

Suite 505, 35 Lime Street  
Sydney NSW 2000  
Australia

**08 07 2013**

## Contents

7.4.3 SUMMARY .....	3
7.4.4 INTRODUCTION .....	3
Table 1. Lot/DP Summary for EPM 18865 .....	3
Table 2. Summary Block/Units for EPM 18865 .....	4
7.4.5 BODY OF REPORT .....	4
7.4.5.1 GEOLOGICAL DATA .....	4
7.4.5.2 GEOPHYSICAL DATA .....	5
7.4.5.3 GEOCHEMICAL DATA .....	5
7.4.5.4 DRILLING DATA .....	5
7.4.5.5 REMOTE SENSING DATA.....	5
7.4.6 RESOURCE STATEMENTS .....	5
7.4.7 GENERAL .....	5
REFERENCES.....	6
Appendix 1 Maps and Figures.....	6

### **7.4.3 SUMMARY**

The Amber Creek Project is based on lease number EPM18865 owned by Oldfield Exploration Pty Ltd (Oldfield). It is located 30 km north of Amber Station, approximately 220 km north of Mount Surprise via the Kennedy Highway.

The project area has a history of old alluvial workings and limited hardrock mining for tin, gold and tungsten. Recent exploration has been by several companies between 1980-2000's.

Carboniferous to Permian (330 – 300 Ma) I-type and A-type volcanic and plutonic rocks are extensively distributed throughout the project area and are part of the Kennedy Igneous Province.

These granites are one of the best worldwide examples of highly evolved I-type granites developed on a large scale and contain several prospective supersuites. Mineral occurrences associated with these intrusions contain a wide range of metals that include Au, Mo, Sn, W, Cu and Bi.

Exploration has been directed at locating pegmatitic bodies which may host economic concentrates of lithium and REE as well as quartz bodies which may contain tin and tungsten. A number of tin and tungsten occurrences have been reported in the past and these have been inspected and sampled.

Oldfield's forward program is now focused on a soil sampling program covering a broad area. It is anticipated that this survey may provide an indication as to which quartz and pegmatite veins are mineralized through dispersion halos.

### **7.4.4 INTRODUCTION**

The tenement is located north of Mount Surprise by travelling along a gravel road to Amber Station (30km) which is situated on the south side of the lease.

Mount Surprise is a small town located long the Kennedy Highway and is the closest town to the project area. It is situated 320 km south-west of Cairns, 530km north-west of Townsville and lies 450 metres above sea-level. It has a current population of 65 people. The local economy is based principally upon grazing enterprises, mining and tourism.

The area is well known for gem fossicking, with sapphires, zircon, topaz, garnets and many other minerals around the area. Heaviest rain falls occur during February and March with an average maximum temperature of 37°C in summer. In winter, little or no rainfall with mild to warm conditions prevails. Temperatures in winter usually range from maximum 24°C, minimum 10°C with low humidity levels, averaging about 20%.

#### **Land Tenure**

Oldfield was granted EPM 18865 on 13<sup>th</sup> June 2012 covering a total of 137.2 Sq. kms, due to expire 12<sup>th</sup> June 2017.

**Table 1. Lot/DP Summary for EPM 18865**

<b>Tenement</b>	<b>Lot/DP</b>	<b>Owner</b>
EPM 18865	6BW21	Collins/Wilson Amber Station
EPM 18865	3TE24	Curley Torwood Station

**EPM 18865** comprising 49 units, was granted to Oldfield Exploration on 13th June 2012 for a period of five years.

Details of the graticular units are tabulated below.

**Table 2. Summary Block/Units for EPM 18865**

<b>BIM</b>	<b>Block No.</b>	<b>Units</b>
TOWN	1443	z
TOWN	1444	k n o p s t u v w x y z
TOWN	1445	f g h j l m n o q r s t x y z
TOWN	1516	b c d e h j k n o p s t u x y z
TOWN	1517	c d f g h j

There is an annual expenditure commitment of \$25,000.00 per annum for the term of the licence.

Native title, environmental issues and strategic cropping issues please refer to a desktop review By McCollum Environmental for EPM18865.

## **7.4.5 BODY OF REPORT**

### **7.4.5.1 GEOLOGICAL DATA**

#### **Regional Geology**

The area applied for in this Amber Creek Project application covers area containing more than 40 separate tungsten and tin occurrences in undifferentiated metamorphics which are probably related to the McDevitt Metamorphics intruded by the Elizabeth Creek Granite. The undifferentiated metamorphics are reported to comprise micaceous schists, quartz mica schists, quartzites, amphibolites, granites and gneissic granites.

Of particular interest is the occurrence of pegmatites which may host anomalous lithium and REE concentrations and which previously may not have been tested. An example is the Amber Pinnacle Wolfram-Beryl Lode which as reported by Normin Consultants (CR11399), comprises a vein varying between 1m to 2m wide but with a strike extent of over 1km. It is also reported that scattered throughout the vein are isolated bungs of wolframite and green blue beryl. In this report and in all subsequent reports, sampling and assaying for lithium and REEs and other metals have not been conducted and the vein has been determined as being uneconomic from visual estimates of the concentration of wolframite only.

## **PREVIOUS EXPLORATION**

The target area has been derived from an examination of the presence of mineral occurrences, favourable geology and the lack of sampling apart from W or Sn or Au. There is also no drilling on the hard rock targets by past explorers.

Past work within the area has tended to focus on the potential for alluvial Sn deposits along the Lynd River and its tributaries and includes work conducted by Normin Consultants, (1982: CR11399, CR 8877), Rio Tinto (1960; CR451) and Meridian Oil (1981: CR10430) although Meridian was also searching for hydrothermal uranium deposits. In 1986, CRAE (CR16748A) explored for diamonds in the area.

In terms of hardrock exploration, this appears to have only been conducted by Lynd River Mineral Pty Ltd (CR2703) and involved sinking small shafts on three Mo reefs in the regions of Frenchy Creek and to a depth of 22 feet although at the site of the shaft the mineralisation tenor decreased with depth. Nevertheless at surface, the lode extended around 4000 feet in length and had a width of 3 to 4 feet.

A second shaft was sunk on a copper prospect at Warby's Creek. The lode is reported as a mass of highly faulted porphyry and proved to be 12 to 15 feet wide at 27 feet deep. The mineralisation is reported to assay 4.9% Cu at this depth but was patchy. The copper occurrence is not recorded elsewhere.

#### **7.4.5.2 GEOPHYSICAL DATA**

No new geophysical data has been undertaken by Oldfield Exploration Pty Ltd.

#### **7.4.5.3 GEOCHEMICAL DATA**

No new geochemical data has been undertaken by Oldfield Exploration Pty Ltd.

#### **7.4.5.4 DRILLING DATA**

##### **Drilling**

No drilling data applies to EPM 18865

#### **7.4.5.5 REMOTE SENSING DATA**

No remote sensing data applies to EPM 18865

#### **7.4.6 RESOURCE STATEMENTS**

No Resources apply to EPM18865

#### **7.4.7 GENERAL**

To-date, Oldfield's exploration activities have focused on a data review and initial site visit. This site visit is now being followed up by soil sampling survey to assist in identifying mineralized quartz veins and pegmatites.

## **REFERENCES**

CR45928 Auzex, Jan.,2007 Redbank EPM 14420  
CR26092 Auzex, Jan.,2008 Redbank EPM 14420  
CR27202 Auzex, Jan.,2009 Redbank EPM 14420  
CR15764 CRAE Dec., 1985 Mt Surprise Authority to Prospect 3973M  
CR7979 Lamorna Apr., 1980 Authority to Prospect 2105M  
CR2703 Lynd Authority to Prospect 316M  
CR10430 Meridian Nov 1981 Authority to Prospect 2719M  
CR8877 Normin March 1981 Authority to Prospect 2105M  
CR11399 Normin March 1982 Authority to Prospect 2105M

## **Appendix 1 Maps and Figures**