

Tim Callaghan – Resource and Exploration Geology
3 Main Rd Penguin 7318 ph. 0428 888 896 email: timcallaghan@netspace.net.au
ABN 50886857181

**FIRST ANNUAL AND FINAL REPORT
EL1/2013 LAKE MARGARET ROAD
WESTERN TASMANIA**

Prepared for: Stebbo's Diamond Drilling

Tim Callaghan, August 2016

MAP CONVENTIONS

Coordinates in this report and in digital data associated with this report are recorded as GDA94 Zone 55.

RL's in this report are MSL.

EXECUTIVE SUMMARY

This report covers exploration activities completed on EL13/2006 Diamond Hill. The EL forms part of a tenement package prospective for barite and gold mineralisation within the Yolande River sequence and intrusive felsic porphyries of the Cambrian Mt Read Volcanics.

No work was ever completed on the EL and the EL is to be relinquished.

CONTENTS

Executive Summary	3
1 Introduction	5
2 Local Geology	8
3 Work Completed September 2011 – August 2012	9
4 Proposed Work Program	10
5 Environmental	11
6 Expenditure	12
Additional Notes	17

LIST OF FIGURES

Figure 1	EL1/2006 location and geology	6
Figure 2	EL1/2006 TMI and prospect locations	7

1 INTRODUCTION

EL1/2013 Diamond Hill consisting of 5km² is licensed to Stebbo's Diamond Drilling. The EL was acquired as an addition to former EL1/2006 also held by Stebbo's Diamond Drilling.

The EL is located just east of the junction of the Murchison and Lyell Highway's with reasonable access on fire trails and the Lake Margaret Road.

Most of the license is covered by moderately thick tea tree re-growth and low swamps. The area has seen repeated wild fires over the last 100 years, significantly modifying the local environment.

The licensee considers the EL to be prospective for:

- High grade barite, suitable for specialist needs
- volcanogenic or metamorphogenic vein hosted gold deposits

The EL has been prospected and explored since the 1890's with historic mining activity consisting of costeans, adits and winzes evident at the Madam Howard's Plains Barite lodes, and the Diamond Hill gold prospect. Alluvial gold has been recovered from much of the area by local prospectors over the last 100 years.

Due to ill health no work was ever completed on the EL. EL1/2006 was relinquished in 2015. This report is the first and final report for this EL as no work has or will be completed by the licensee.

2 LOCAL GEOLOGY

The Local geology of EL1/2013 is dominated by the Yolande River Sequence of the Cambrian Mt Read Volcanics (Figure 1). A major regional Fault, the firewood siding fault is located to the south of the EL, separating the Cambrian volcanics from the younger Silurian Siliciclastics. The South Henty Fault is located just west of the EL.

Most of the EL is underlain by Yolande River Sequence felsic volcanoclastic sediments, composed mainly of vitric siltstones and mass flows. The volcanoclastics are generally well bedded.

Several NNW trending felsic intrusive/extrusive bodies are located in the vicinity of the EL. A quartz porphyry is located at Diamond Hill and several kilometers to the north towards the Yolande River. The porphyries can be divided on modal hornblende and biotite (Morrison, 1997). The aphyric to feldspar phyric porphyries have a weak magnetic signature (Figure 2). EL13/2013 covers several andesitic intrusives which also have a moderate to strong magnetic signature.

Several enigmatic Cambrian basalts are located close to the firewood siding fault to the south.

Known mineralisation within the area includes:

Madam Howards: Approximately 1300t of barite was mined from two NE trending lodes at Madam Howard's Plains between 1910 and 1920. Groves (1964) describes the lodes as lenticular bodies, the southern group striking 060° magnetic and the northern group 020° magnetic. The main deposits are up to 4m wide and extend over 600m in length. In 1962 the mines department drilled three drillholes under the main workings but only intersected minor barite. Minor fluorite hematite and galena filled amygdalae were observed along with numerous quartz-carbonate veins. The holes were analysed for Au by CMT in 1997 (Morrison, 1997). The holes were slightly anomalous with a peak value of 0.11g/t.

Diamond Hill: An E-W quartz vein in a pipe-like intrusive body was historically mined with evidence of alluvial workings in the nearby creeks and 4 small adits into the deposit. The prospect is defined by a pan concentrate anomaly and patchy but interesting rock chip samples (Max 18g/t).

Raggedy Anne: A gold bearing quartz lode hosted in the Silurian sediments near the firewood siding Fault. Further research is required.

The area has been consistently worked for minor amounts of alluvial gold over the last 100 years.

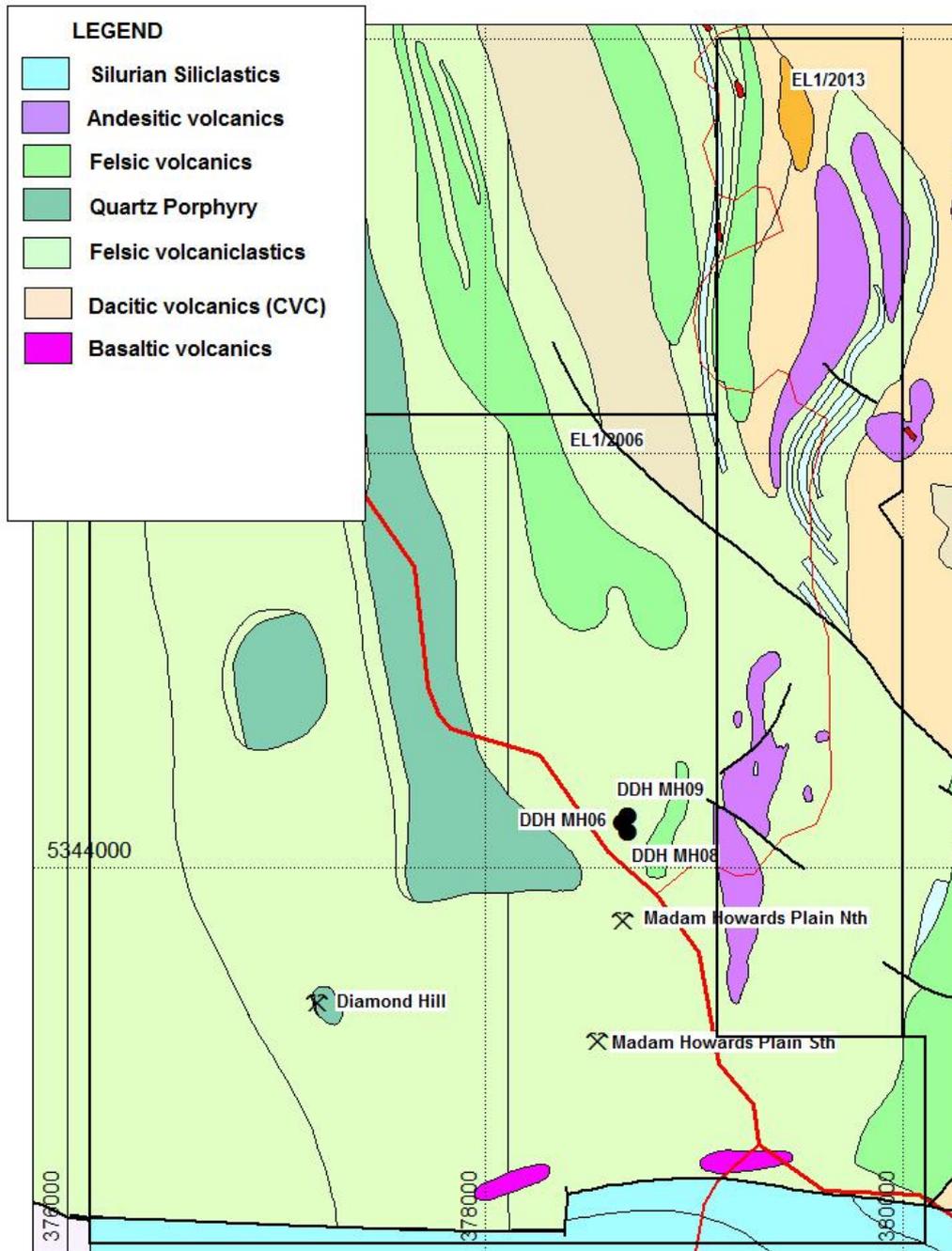


Figure 1. EL1/2006 and EL1/2013 Geology.

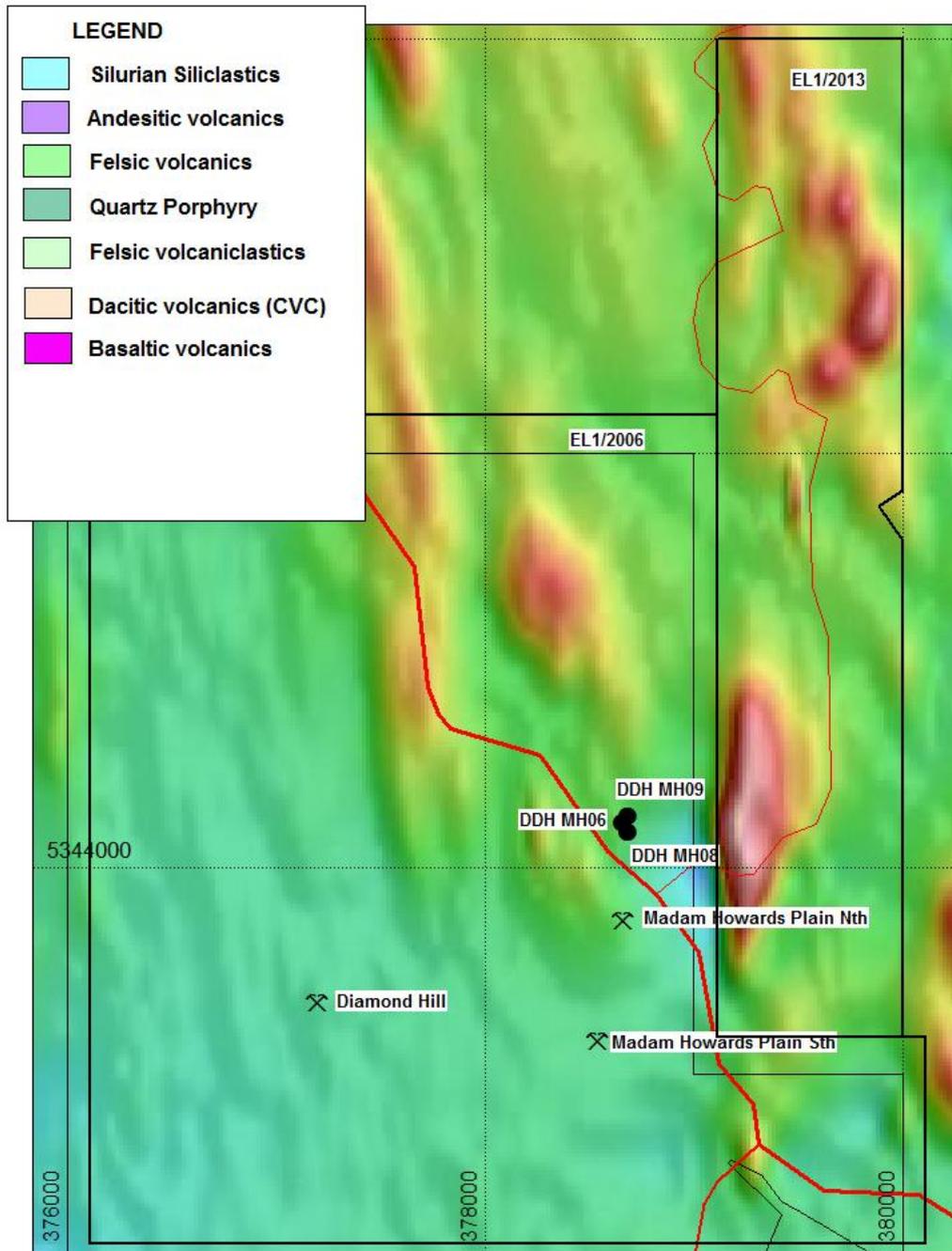


Figure 2. EL1/2006 Total Magnetic Intensity Image.

No work was completed on the EL during its term of tenure

4 PROPOSED WORK PROGRAM

No work is proposed for the EL as it is in the process of relinquishment.

5 ENVIRONMENTAL

No work was completed on the EL and no rehabilitation is required.

6 EXPENDITURE

No money was expended on the EL apart from annual rental and application fees.

References

Groves DI 1964. Madam Howard Plains Barite deposit. *Tas Mines Department Technical Report No8.*

Morrison K C, 1997. Exploration Licence 27/95 – Yolande River Year 1 Annual Report. *Unpublished annual report for Copper Mines of Tasmania Pty Ltd*