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**FINAL REPORT FOR PERIOD
24th MARCH 2008 TO 11th MARCH 2013**

**EXPLORATION LICENCE 71/2007
MOLE CREEK LIMESTONE
TASMANIA**

BURNIE SK55-03

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ABSTRACT

This report details work completed by Sibelco Australia Limited on EL71/2007 during the period 24th March 2008 to 23rd March 2013.

EL71/2007 is located approximately 5km NW of Mole Creek, Tasmania. The EL surrounds the Sibelco operated Mole Creek limestone mine. Work carried out to identify a high quality limestone unit suitable as feed for the Sibelco Mole Creek kiln. The area targeted was not deemed economically viable.

Limestone currently mined in the Mole Creek region is part of the Den Formation, the upper member of the Ordovician Gordon Group. The aim of the work proposed on the EL was to investigate the extensions to the limestone units currently being exploited. Drilling and resource work throughout 96M/1971 suggested that high grade limestone extensions occur outside the lease boundaries.

A total of 16 drill holes for 190.5 metres were drilled on the Sibelco freehold within the tenement area. Negotiations have been ongoing with the landholder to access the limestone extensions to the west of the Mole Creek operation but were unsuccessful.

Mining Lease Application 1954P/M has been submitted to allow the full development of 96M/1971, this incorporates 6Ha of EL71/2007.

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- 1. Location Plan** **Not to Scale**

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Nil.

1. INTRODUCTION

EL71/2007 is located approximately 5km NW of Mole Creek, Tasmania. The EL surrounds the Sibelco operated Mole Creek limestone mine. Work was planned to identify a high quality limestone unit suitable as feed for the Sibelco Mole Creek kiln. Work was done to investigate the strike extensions to the limestone units currently being mined at the Mole Creek mine site.

1.1 Location and Access

EL 71/2007 is located approximately 5km northwest of Mole Creek, Tasmania (Figure 1). The 6km² Exploration Licence surrounds the Sibelco operated Mole Creek limestone mine, and is accessed from Mole Creek Township via Den Road.

1.2 Tenure

EL 71/2007 for Category 3 and 5 minerals was granted to Sibelco Lime (Tasmania) Pty Ltd on 24th March 2008 for a period of 5 years. The area of the EL is 6km². A partial surrender of 1km² in the NE corner of the tenement was undertaken, reducing the area of the tenement to 5km².

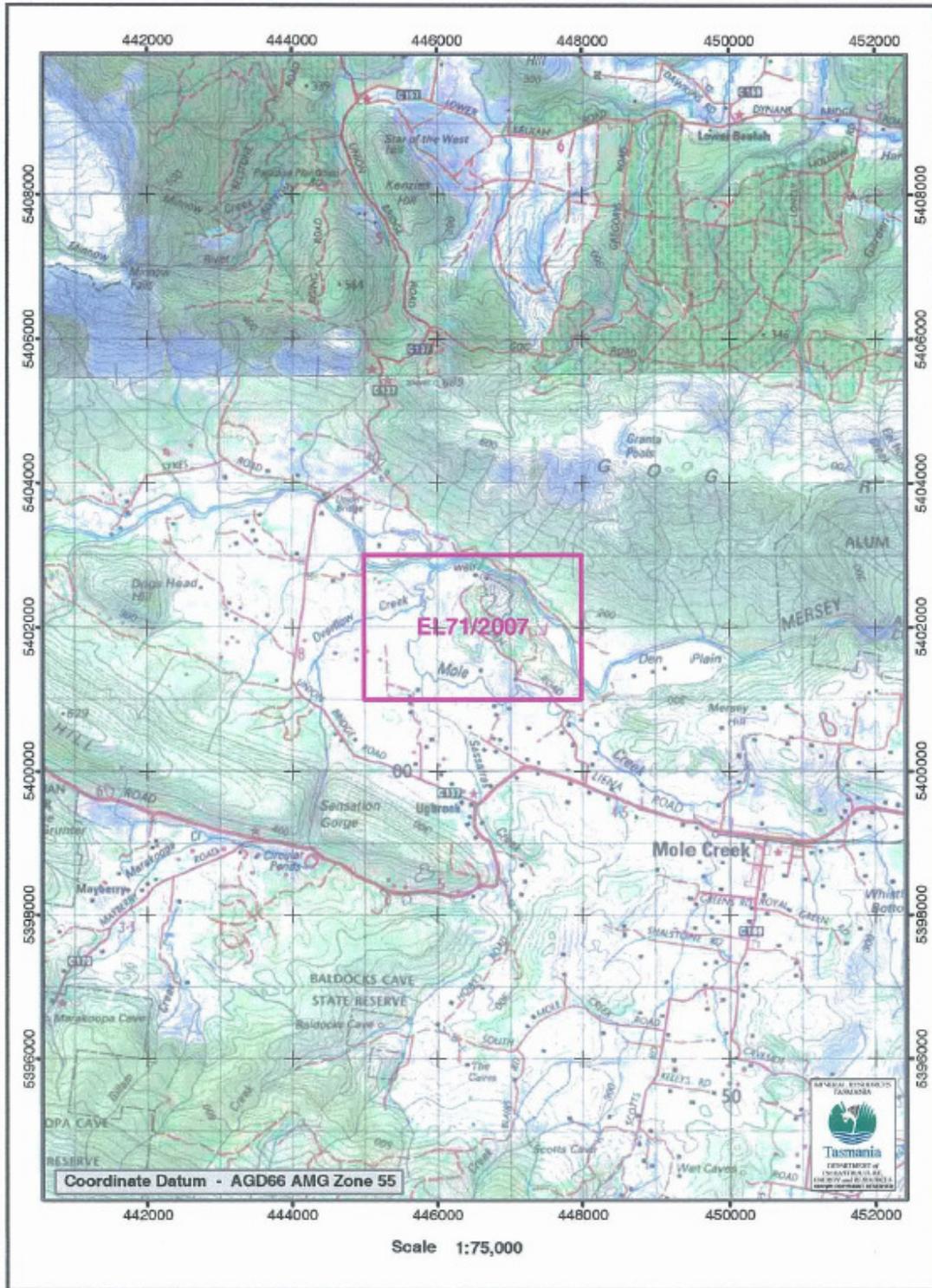
1.3 Geology

The Mole Creek valley is largely made up of calcareous rocks of Ordovician age belonging to the Gordon Group, part of the Wurawina Supergroup.

In the tenement area, the Gordon Group comprises the Overflow Creek Formation dolomite, and the overlying Den Formation which is the host to the high grade limestones currently being mined.

The main geological structure is an ESE trending synclinal fold that is tilted gently to the east. Consequently, the beds of limestone occurring in the Mole Creek mine dip to the south, with the same beds in the south of the tenement area dipping to the north. The axis of the syncline is covered by sandstones and shales of the Eldon Group.

In the mine area the Den Formation limestone can be subdivided into 5 limestone units of varying grades around 200 metres thick, which extend east-west over a strike length of approximately 400 metres in and along strike of the current working pit. The siliceous and middle limestone members are too low in quality to be used in the kiln however. A NW-SE trending fault has split the limestone into two separate blocks, with a smaller 300 metre long unit being displaced to the SE. Both the NE and SW limestones dip to the south at dips of between 40 to 60 degrees. There are intermittent limestone outcrops extending to the west of the SW limestone resource.



2. PREVIOUS WORK

The regional geology of the Mole Creek district has been described in two publications of the Geological Society of Australia, “Mole Creek – A Geological and Geomorphological Field Guide, 1987” and “Geology and Mineral Resources of Tasmania, Special Publication 15, 1989”. The area is also covered by the 1:50,000 Geological Series, 1984.

In 1998, a David Mitchell sponsored Honours Thesis titled, “Geology and Structures of the Gordon Group Limestones at Mole Creek, Northern Tasmania” was completed by University of Tasmania student Mark Edwards. The extents of the Den Formation and the structural setting of the limestone were investigated.

Work conducted by the mine operators prior to the granting of the tenement has been limited to the drilling of 3 shallow reverse circulation holes and the completion of 3 rock chip traverses west of the SE resource located on 96M/1971.

In 1987, a total of 77 metres were drilled in 3 shallow RC holes (DHMC41, 41A, 42) to test the quality of limestone approximately 150 metres west of the Mining Lease boundary. The holes were drilled vertically, and although all intersected limestone, none contained grades suitable for calcining.

In 2004, a total of 113 rock chips were taken on 3 north-south traverse lines spaced 50 metres apart. The most easterly traverse was located 200 metres west of the Mining Lease boundary. Results showed high grade limestone with widths of up to 100 metres. The geometry of the area has yet to be determined so the significance of the seemingly conflicting results between the drilling and rock chips in this area has not been resolved.

3. WORK CONDUCTED DURING THE TERM OF THE TENEMENT

In January 2009, AAM Hatch were contracted to conduct an aerial survey over the Mole Creek mine, and the surrounding areas within the Exploration Licence. Landholder negotiations were commenced and the land immediately east of 96M/1971 was purchased, with access to explore the western area granted following access negotiations.

A total of 11 RAB holes for 142.5 metres were drilled in the saddle located west of the Mole Creek limestone operation located on 96M/71. The holes were drilled between the westerly extension of a high grade resource located within 96M/71, and a knoll of limestone which has exhibited high grade zones from surface sampling. A total of 76 samples were submitted for XRF analysis however, the drilling returned intervals of relatively low grade limestone interspersed with clay infill. Some higher grade intervals at the base of one or two holes may indicate the presence of a syncline, although the sudden change from high to low grade limestone along strike would indicate the presence of a fault. The area drilled is unlikely to be suitable as a high grade limestone suitable for mining.

A five hole, 58 metre RAB drilling program using the Mole Creek site production rig was completed on Sibelco freehold property in lieu of the work targeted at western

extensions of the high grade limestone currently being mined. Although in a less prospective area, the drilling was planned at identifying the southern limb of the Mole Creek syncline of that currently being mined. The drilling was expected to pass through a thin veneer of Eldon Group sediments prior to intersecting underlying Den Formation limestone. No limestone was intersected in any of the holes drilled.

4. WORK CONDUCTED DURING THE FINAL REPORTING PERIOD

No work was undertaken in this reporting period

5. DISCUSSION OF RESULTS

No work was undertaken in this reporting period

6. CONCLUSIONS

No work was undertaken in this reporting period

7. ENVIRONMENTAL

No work was undertaken in this reporting period

8. BIBLIOGRAPHIC DATA SHEET

REPORT NUMBER	AS201302
TITLE	FINAL REPORT FOR PERIOD 24 th MARCH 2008 TO 23 rd MARCH 2013 EXPLORATION LICENCE 71-2007 MOLE CREEK TASMANIA
AUTHOR	A.SEABERT
DATE	FEBRUARY 2013
PROSPECT NAME	MOLE CREEK
OWNER/OPERATOR	SIBELCO LIME (TASMANIA) PTY LTD
KEY WORDS	LIMESTONE ORDOVICIAN INDUSTRIAL MINERALS
COMMODITY	LIMESTONE
TECTONIC UNITS	DUNDAS TROUGH WURAWINA SUPERGROUP
1: 250 000 MAP SHEET	BURNIE SK55-03
1: 100 000 MAP SHEET	MERSEY 8114
1: 25 000 MAP SHEET	GOG 4440