1979/26. A diamond drill hole at Snug

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Abstract

A fully cored hole at Snug [EN19883195] proved 51.7 m of beds belonging to the Hickman Formation* resting on 26.41 m of Bundella Mudstone.

INTRODUCTION

A.N. Lewis (1946) set up a number of stratigraphic units and described them in some detail. One of the units there described was the 'Snug Stage' based on 'type' exposures at Snug. The relationship of 'Snug Stage' beds to underlying and overlying beds was not understood at the time. In the current revision of the Snug area as part of the Kingborough Quadrangle and in the light of setting up new formations in the area it became necessary to investigate the nature and relationships of the 'Snug Stage' of Lewis before setting up new stratigraphic units.

The bore was sited [EN19883195] to begin above the 'Snug Stage' of Lewis and was designed to penetrate to beds of known age below it. The bore passed through 51.7 m of beds all of which could be assigned to the Hickman Formation*. The lower 21 m of this formation consist of dark mottled, heavily bioturbate, siltstones and sandy siltstones comminuted shell debris and probably represents A.N. Lewis' 'Snug Stage'. Beds of the Hickman Formation apparently rest without any obvious break on a minimum thickness of 26.4 m of sandstone with dropped pebbles assigned to the Bundella Mudstone.

REFERENCE

LEWIS, A.N. 1946. *The geology of the Hobart district.* Mercury Press : Hobart.

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* Unpublished formation name.

GEOLOGICAL LOG OF SNUG NO. 1 DIAMOND DRILL HOLE

Depth (m)	Description	Formation
0.00 - 12.46	Siltstone, deeply weathered, highly fossiliferous. Fossils mainly bryozoa. *Atomodesma*.	HICKMAN FORMATION — SNUG STAGE OF A.N. LEWIS
12.46 - 30.60	Siltstone, grey, fossiliferous but less so than above. Not weathered, less bryozoan, *Strophalosia* numerous. Spiriferids. Rock fairly hard and brittle - baked. Less fossiliferous downwards to about 26 m. Disseminated pyrite common. Bioturbate below 27 m, slightly darker downwards.	
30.60 - 51.70	Siltstone, dark-grey, mottled, heavily bioturbate. Much comminuted shell debris - shows as white specks. No recognisable macrofossils, pyrite present. (Looks very much like the 'Snug Stage' material of the Snug area as described by A.N. Lewis). Thin veinlets in places, fairly uniform lithology. Some dropped pebbles, fairly uniform lithology. Core baked throughout.	
51.70 - 53.96	Sandstone, light grey, fine-grained, and silty sandstone. Scattered fossils. Bioturbate. Dropped pebbles.	BUNDELLA MUDSTONE
53.96 - 54.71	Sandstone, coarse-grained, with much pyrite.	
54.71 - 78.11	Sandstone, light-grey, fine-grained, and silty sandstone. Bioturbate. Dropped pebbles. Scattered fossils. Becoming more fossiliferous downwards below 59 m. *Stenopora* is the commonest fossil. Pyrite common. Core baked.	
	Core baked throughout hole.	
	Hole terminated at 78.11 m.	