

DESCRIPTIONS OF UPPER SILURIAN FOSSILS FROM  
THE LILYDALE LIMESTONE, UPPER YARRA DISTRICT,  
VICTORIA.

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THE fossils about to be described were collected at the Cave-hill Quarries, Lilydale, Upper Yarra District, near Melbourne, Victoria, by Mr. A. J. North, of the Australian Museum.\*

I am informed by Mr. R. A. F. Murray, Government Geologist of Victoria, that no description of this limestone has been published, and that beyond the fact that it is a member of the Upper Silurian of that Colony, little is known of it. I hope to be able to show, by the determination of the following fossils, that the Lilydale Limestone is a portion of the Upper Silurian, known as the Wenlock Series.

The limestone, judging simply from the specimens which have passed through my hands, varies in colour from light grey to dark bluish-grey, and is highly fossiliferous. In places it is crystalline and homogenous, with scattered rather flesh coloured patches; in parts minutely brecciated, with here and there patches of a more or less oolitic character; in fact no two specimens exactly agree with one another in appearance and mechanical composition. It weathers and decomposes to an almost pure white colour and becomes very friable. The fossils so far recognised are at least three forms of Stromatoporidea; a peculiar *Favosites*, to be described under the name of *F. grandipora*; and three species of Gasteropoda.

The Stromatoporidea will require a more prolonged study than I am able to give them at the present moment, and must be relegated to a future report. Besides the univalves described, there is a *Bellerophon*, but not sufficiently well preserved to be determinable. Lastly a Rugose coral, which will probably prove to be one of the Cyathophyllidae.

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\* Supplemented by a small series presented by Mr. J. Campbell, of the Lilydale Quarries.