

Duck Bay 39/54

ADDITIONAL PRELIMINARY
PALAEONTOLOGICAL NOTES

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A note concerning the Permian age of c. 6 (3708 feet) from Arco - Woodside Duck Bay No. 1 Well, Gippsland Basin, was compiled by E.A. Hodgson on 11th March, and a copy was forwarded to the company. Hodgson has since examined other core material from the well in order to determine the limits of the Permian sequence. His results are incorporated in B.M.R. Records 1964/50, which is at present being typed.

In summary Hodgson has obtained the following results :

CORE 3 (2831-32 feet) : Uppermost Jurassic or lowermost Cretaceous. Palynological criteria defining the Jurassic/Cretaceous boundary are not yet recognized. This sample is probably to be correlated with the top of the Blythesdale Group of the Great Artesian Basin. It is unusual in that it contains microfossils suggestive of a brackish or perhaps marine facies. It is possibly older than the reported marine Cretaceous of Bengworden South No. 1 (Hollands Landing).

CORE 4 (3197-99 feet) and CORE 5 (3393-94 feet)
Altered olivine basalt (W.B.Dallwitz, pers. comm.).

CORE 6 (3708 feet) and CORE 7 (3390-92 feet)?: ^(3880-3896 core 7) Lower Permian. Only fragmentary specimens were obtained from core 7. The assemblages of these cores are relatable to Lower Permian deposits in the Murray Basin. However they differ from the Murray Basin sections in the absence of any algae and acritarchs which might indicate a marine or brackish facies.

CORE 8 (4153-55 feet), CORE 9 (4215-17 feet) : Barren. A not surprising result in view of the metamorphosed state of the rocks.

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