

U.R. 1970/63

PALYNOLOGICAL EXAMINATION OF BORE SAMPLE.



Pursuit Oil Co.  
Samples from ~~W. Handhaugh Creek~~... Bore No. 1.....  
were treated by the hydrofluoric acid - Schulze's  
solution method, and the residues examined under the  
microscope for acid insoluble microfossils.

Sample Details.

<u>Bore No.</u>	<u>Core No.</u> <del>Rock Type</del>	<u>Depth</u>	<u>Microfossils.</u>
1	1	1258-1274ft	Speciosus Assemblage (Dettmann 1963)
	2	3660-3671ft	} few microfossils isolated
	3	7780ft	

Remarks

Core 1 was of Lower Cretaceous age. A poorly preserved  
microflora indicated the presence of the Speciosus Assemblage  
of Dettmann(1963), of Alban-Apian age.

This Assemblage is found in much of the outcrop and sub-  
surface beds so far examined in the Otway Basin, with the  
exception of outcrop material in the Casterton area, on the  
Western flanks of the Otways, and in a subsurface zone between  
the Merino and Otway areas where the younger Paradoxa Zone is  
found.

Cores 2 and 3 probably were also deposited in an older phase  
of this Speciosus Zone, although there is no direct palaeontological  
evidence to support this.

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REFERENCE: Dettmann, May 1963, Upper Mesozoic Microfloras from South-  
Eastern Australia. Proc. Roy. Soc. Vict., 77(1), pp. 1-148