



PE990073

total 11 pages  
of 15 sheets  
Page 1 of 2

PALYNOLOGICAL REPORT ON CUTTINGS FROM BETWEEN 2670 FEET  
AND 3945 FEET IN TARWIN MEADOWS WELL

In a previous work (Dettmann 1965a) five Lower Cretaceous core samples were examined palynologically from between 304 and 2572 feet in Tarwin Meadows well. The further seven cutting samples from this well in the interval between 2670 feet and 3945 feet form the basis of this report. Palynological data obtained from these samples indicate that the samples are Lower Cretaceous (Valanginian-Aptian) in age. Thus, the entire section investigated can be regarded as Lower Cretaceous in age.

Species identified in each of the seven samples are tabulated in Table 1. These include Dictyotosporites speciosus Cookson & Dettmann, the index of Dettmann's (1963) Valanginian-Aptian Speciosus Assemblage. Diagnostic species of the older and younger categories of this assemblage were not observed in the residues but the previous record of Cooksonites variabilis Pocock at 2567-72 feet (Dettmann 1965a, p.3) implies the presence of the older category of the Speciosus Assemblage at and below 2567 feet. The sediments between 2567 feet and 3945 feet in Tarwin Meadows well can therefore be regarded as correlatives of at least part of the sequence between 2080<sup>n</sup> feet and 2747<sup>n</sup> feet in Woodside Wellington Park No. 1 well (Dettmann 1965b).

REFERENCES:

Dettmann, M.E. 1963 Upper Mesozoic microfloras from south-eastern Australia. Proc. Roy. Soc. Vict., 77, 1-148.

Dettmann, M.E. 1965a Palynological examination of Rosedale, Darriman and Tarwin Meadows wells. Unpublished report submitted to Haematite Explorations Pty. Ltd. 4.11.65.

Dettmann, M.E. 1965b Palynological report on Woodside Wellington Park No. 1 Well. Unpublished report submitted to Haematite Explorations Pty. Ltd. 9.8.65.

14 February, 1966.

Mary B. Dettmann,  
Department of Geology,  
University of Queensland,  
ST. LUCIA ... QUEENSLAND.

Original D.D.  
22.4.1966.

copy of report  
J.S. Knight

5 APR 1966

Depth (feet)	Species Distribution	Species Name	Category
2670-90'	+	Dictyosporites speciosus	Microspores
2670-90'	+	Aequitriradites spinulosus	
2670-90'	+	Cicatricosisporites australiensis	
2670-90'	+	Klukisporites scaberis	
2670-90'	+	Leptolepidites verrucatus	
2670-90'	+	Cyathidites spp.	
2670-90'	+	Ceratosporites equalis	
2670-90'	+	Neoraistrickia truncata	
2670-90'	+	Pilosisporites notensis	
2670-90'	+	Kuylisporites lunaris	
2670-90'	+	Foraminisporis dailyi	
2670-90'	+	Foraminisporis wonthaggiensis	
2670-90'	+	Foraminisporis asymmetricus	
2670-90'	+	Aequitriradites verrucosus	
2670-90'	+	Rousesiporites reticulatus	
2880-2900'	+	Alisporites spp.	Pollen
3050-70'	+	Alisporites spp.	
3220-30'	+		
3230-40'	+		
3670-3700'	+		
3940-45'	+		

Table 1. Distribution of selected spore and pollen species in Tarwin Meadows well between 2670 feet and 3945 feet.

+ - species present