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PALYNOLOGICAL REPORT ON SIDEWALL CORES FROM F. B. H.

FERGUSONS HILL NO. 1 WELL

Spores obtained from sidewall cores between 11,438 and 11,495 feet in Fergusons Hill No. 1 well have revealed that strata in this interval are Lower Cretaceous in age. All of the six samples yielded carbonaceous material including spore and pollen fragments, the vast majority of which are too carbonised to enable identification, even at generic level. However, several species have been recognised in the uppermost (11,438 feet) and lowermost (11,495 feet) samples.

- (a) The sample from 11,495 feet contains fragmentary carbonaceous material as well as sparse numbers of poorly preserved, whole specimens of spores. The only stratigraphically significant species present is Cicatricosporites australiensis (Cookson) which demonstrates a Cretaceous age. Since this horizon underlies deposits of Valanginian-Aptian age (see below) it is considered to be Lower Cretaceous in age.
- (b) The deposit from 11,438 feet yielded Dictyotosporites speciosus Cookson & Dettmann which illustrates that the Valanginian-Aptian Speciosus Assemblage is represented at this level. No other stratigraphically significant species has been observed.

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Mary Dettmann
Department of Geology,
University of Queensland,
St. Lucia, Queensland.