

INTRODUCTION

The spore-pollen zonation in Pelican-3 is based on fifty-one core, cuttings and sidewall core samples. Eleven samples were also examined from the first sidewall core run but are disregarded as they do not agree with the rest of the data. The age dating is therefore based on core material from 9347 to 9520 feet, cuttings from 6800 to 9330 feet and sidewall cores from 4600 to 6800 feet. The limits of the spore-pollen zones recognised are given below.

SUMMARY

Palynological Zone	Depth in feet & Quality Rating		Age
	Top Data	Bottom Data	
<u>Proteacidites tuberculatus</u>	4600(1)	4800(1)	Oligocene
Upper <u>Nothofagidites asperus</u>	5000(2)	5400(1)	Oligocene to Late Eocene
Lower <u>Nothofagidites asperus</u>			
B. Subdivision	5460(1)	5980(2)	Late Eocene
A Subdivision	6257(1)	6628(2)	Middle Eocene
<u>Proteacidites asperopolus</u>	6800(1)	7100(3)	Early Eocene
<u>P. asperopolus</u> to Upper <u>Malvacipollis diversus</u>			
(Upper <u>M. diversus</u> preferred)	7320(4)	7620(3)	Early Eocene
Upper or Lower <u>M. diversus</u>			
(Upper <u>M. diversus</u> preferred)	7800(3)	7950(4)	Early Eocene
<u>Lygistepollenites balmei</u>	8020(3)	9520(1)	Paleocene

DISCUSSION

Pelican-3 is distinct from Pelican 1 and 2 by having a thick L. balmei Zone section from 8020 to 9520 feet. The remainder of the section above this shows good agreement with Pelican 1 and 2. The contact between the L. balmei Zone and the overlying section is considered to be a disconformity of Early Eocene age with nearly the entire, if not all of the Lower M. diversus Zone missing.