

INTRODUCTION

Seventy-one samples were studied, comprising 39 cuttings 2 core samples and 30 sidewall cores.

Palynomorph occurrence data are shown on Appendix 1 and form the basis for the assignment of the samples to ten spore-pollen units of Late Eocene to Campanian age. The zonation is that of Stover and Evans (1973) and Stover and Partridge (1973) set up in the Gippsland Basin, and modified for the Bass Basin by Partridge (1973). Minor modification of the late Cretaceous zones is in Helby, Morgan and Partridge (in press).

Maturity data was generated in the form of Spore Colour Index, and is plotted on Figure 1 Maturity Profile of Amoco Pelican-5. The oil and gas generation windows on Figure 1 follow the general consensus of geochemical literature. The oil window corresponds to spore colours of light-mid brown (2.7) to dark brown (3.6). This would correspond approximately to Vitrinite Reflectances of 0.6% to 1.3%.