

## SUMMARY

Paleontological analyses were conducted on Yolla-1 samples from 200 m to 1750 m to define the foraminiferal zones in the Torquay Group, Angahook Formation and the Demons Bluff Formation. Following this work, a second set of samples (2228-2747 m), within the Eastern View Coal Measures, was analysed to help define possible marine incursions as indicated by palynological analyses. Paleontological analyses defined the uphole section of the well (Torquay Group, Angahook Formation, Demons Bluff Formation) as Middle Miocene and younger to Late Eocene in age with a 5 to 10 million year hiatus occurring in the Angahook Formation at 1440 m. No strongly marine incursions were defined within the Eastern View Coal Measures although one is inferred, based on palynology, between 2408 m and 2417 m.

## PART I (200-1750 m)

### INTRODUCTION

Eighteen intervals of ditch cutting samples were examined between 200 m and 1750 m from Yolla-1. Sample spacing was at 100 m intervals, apart from around 700 m and between 1700 and 1750 m. Downhole contamination was minimal and obvious where present.

A summary of the Yolla-1 sequence is given as Table 1; while data on the distribution of planktonic and benthonic foraminifera, other fauna and sediment grain analysis are presented as Tables 2 and 3. Biostratigraphic reliability is shown on Table 4.

## PART II (2228-2747 m)

### INTRODUCTION

Twenty-one samples from within the Eastern View Coal Measures sequence (EVCM) were processed and examined, as listed with the data chart of Table 5. These samples were selected based on reports of dinoflagellates from palynological analyses. Nine of the samples were barren of foraminifera, whilst the other twelve contained only morphologically simple, arenaceous foraminifera. Only one strongly marine incursive event was recorded in the EVCM from 2408 m to 2417 m. Palynological analysis revealed 15% dinoflagellates in this sample, and suggests an upper M. diversus marine incursion of normal magnitude as seen elsewhere in the Bass Basin. Unfortunately, the sample was consumed for palynological analysis and was not verified by paleontological work.