



FORAMINIFERAL ANALYSIS, DRUMMER-1
GIPPSLAND BASIN

by

M.J. HANNAH

ESSO AUSTRALIA LTD.
PALAEOLOGY REPORT 1986/12

March 1986

2225L

INTRODUCTION

The foraminiferal content of nine sidewall cores has been examined. Only the highest sample (SWC 17 at 2450.24 m) yielded any planktonic foraminifera. These were Zone G (Early to Middle Miocene) in age.

TOP OF LATROBE

The top of the Latrobe group lies between sidewall cores 26 at 2435.06 and 28 at 2431.55. The boundary is marked by a change upsection from a fine glauconitic quartz sand to a highly recrystallized carbonate.

BIOSTRATIGRAPHY

ZONE G - Early to Middle Miocene; SWC 29 at 2429.0 m.

A poorly preserved foraminiferal assemblage was recovered from sidewall core 29 at 2429.0m. The assemblage included Globorotalia miozea, Globigerina falconensis, Globigernia woodi connecta and Globigerinoides trilobus. The recognition of this latter species without Globigerinoides sicanus is the reason for the Zone G assignment.

| <u>DEPTH (m)</u> | <u>SWC NO.</u> | <u>YIELD</u> | <u>PRESERVATION</u> | <u>ZONE</u> | <u>AGE</u> | <u>LITHOLOGY*</u> |
|------------------|--------------------|--------------|---------------------|-------------|-------------------------|---|
| 2435.06 | 26 | Barren | - | - | - | Fine quartz sand; glauconitic, pyritic |
| 2431.55 | 28 | Barren | - | - | - | Completely recrystallized carbonate. |
| 2429.00 | 29 | Low | Poor | G | Early-Middle Miocene | Dominantly recrystallized foram tests |

TABLE-1 DRUMMER-1 DATA SUMMARY

* Lithology from washed
residues

PLANKTONIC MICROFOSSIL

| <u>DEPTH (m)</u> | <u>SWC NO.</u> | <u>YIELD</u> | <u>PRESERVATION</u> | <u>ZONE</u> | <u>AGE</u> | <u>LITHOLOGY*</u> |
|------------------|--------------------|--------------|---------------------|-------------|------------|--|
| 2450.24 | 17 | Barren | - | - | - | Medium-fine quartz sand; pyritic, glauconitic. |
| 2446.78 | 19 | Barren | - | - | - | Medium-fine quartz sand glauconitic. |
| 2445.04 | 20 | Barren | - | - | - | Medium fine clean quartz sand. |
| 2439.56 | 23 | Barren | - | - | - | Fine quartz sand shaley glauconitic |
| 2443.50 | 21 | Barren | - | - | - | Fine quartz sand; shaley, glauconitic. |
| 2436.54 | 25 | Barren | - | - | - | Fine ferruginous quartz sand. Common agglutinated foraminifera |