



APPENDIX-1

FORAMINIFERAL ANALYSIS
OF SNAPPER-5, GIPPSLAND BASIN

by

M.J. HANNAH

Esso Australia Ltd.
Palaeontology Report: 1986/8

February, 1986

2145L

INTRODUCTION:

Nine sidewall cores have been examined for foraminifera. Of these only the shallowest two contain planktonic foraminifera.

The top of the Latrobe Group lies between SWC 100 at 1293.9 m and SWC 101 at 1290.0 m. The oldest datable sediments from the Lakes Entrance Formation are Zone G (Early-Middle Miocene) in age.

GEOLOGICAL COMMENTS

The lithology of the washed residues of all the samples examined has been noted and is listed below.

Two significant lithological breaks occur in the section.

- (a) Between SWC's 98 and 99 (1309.0 and 1297.9 m respectively) where a sand dominated lithology gives way, upsection, to a glauconitic shale. This glauconitic unit, although rich in glauconite, is not typical Gurnard Formation lithology. Samples from the Gurnard Formation normally contain 80-90% glauconite far more than is recorded in Snapper-5.
- (b) The top of Latrobe Group, between 1293.9 m and 1290.0 m is marked by the incoming of carbonates typical of the Lakes Entrance Formation.

BIOSTRATIGRAPHY

EARLY-MIDDLE MIOCENE (ZONE G): 1290.0 - 1285.0 metres.

The presence of Globigerinoides trilobus without Globigerinoides sicanus in these two samples is sufficient for a Zone G assignment.

Sidewall core 101 at 1290.0 m contained a moderately diverse, reasonably well preserved fauna including Globoquadrina dehiscens, Globigerina venezuelana and Globigerina woodi woodi.

Sidewall core 102 at 1285.0 m on the other hand produced a poorly preserved fauna mainly due to recrystallization. Globorotalids are reasonably common and include Globorotalia miozea and Globorotalia mayeri.

TABLE-1
DATA SUMMARY SNAPPER 5

DEPTH (metres)	SWC	YIELD	PRESERVATION	ZONE	AGE	LITHOLOGY (from washed residues)
1285.0	102	Moderate	Poor	G	Early-Mid Miocene	Recrystallized carbonate.
1290.0	101	High	Good	G	Early-Mid Miocene	Carbonate.
1293.0	100	V.Low	Poor	?	?	Glauconitic shale with large amount pelletal glauconite some ferruginized. Rare benthonic foraminifera.
1297.9	99	Barren				Glauconitic shale.
1309.0	98	Barren				Medium-fine grained quartz sand.
1315.9	97	Barren				Medium-fine grained quartz sand.
1325.9	96	Barren				Medium-fine grained quartz sand.
1329.1	95	Barren				Medium-fine grained quartz sand.
1341.0	93	Barren				Medium-fine grained quartz sand.

2145L