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FORAMINIFERAL ANALYSIS, LEATHERJACKET-1 GIPPSLAND BASIN

by

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INTRODUCTION

The washed residues of seven samples from near the Top of the Latrobe Group in Leatherjacket-1 have been examined and their foraminiferal content noted.

Only two samples (from 742.1m and 740.3m) yielded foraminifera, both are assigned to the Early Miocene.

LITHOLOGY

A brief lithological description of each of the washed residues is given in the Data Summary table. The top of the Latrobe group occurs between sidewall core 28 at 745.5 and sidewall core 29 at 742.1m. The boundary is marked by a change from a greensand dominated by pelletal glauconite to a carbonate dominated residue.

Sidewall core 28 at 745.5m is the only true greensand examined, although traces of glauconite have been found in samples from below this level.

BIOSTRATIGRAPHY

Zone H1 - Early Miocene 742.1 to 740.3 m

Foraminiferal assemblages from both samples assigned to this zone contain <u>Globigerina woodi connecta</u> without <u>Globigerinoides</u> <u>trilobus</u>. This is sufficient for the zonal assignment.

Assemblages recovered were of moderate diversity and included <u>Globorotalia</u> miozea, <u>Globigeria</u> <u>falconensis</u> and <u>Globigerina</u> <u>venezuelana</u>.

Sidewall core 29 at 742.1m also contained <u>Globigerina</u> <u>brevis</u> which is considered to be restricted to Zone K, indicating a significant amount of reworking.

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MICROFOSSIL								
DEPTH (m)	SWC NO.	YIELD	PRESERVATION	ZONE	AGE	LITHOLOGY*		
759.8	21	Barren	-	-	Indeterminate	fine quartz sand		
757.4	22	Barren	-	_	Indeterminate	fine quartz sand		
752.4	25	Barren	· _	-	Indeterminate	fine quartz sand, glauconitic, micaceous		
747.3	27	Barren		-	Indeterminate	fine, ferruginous quartz sand, glauconitic, slightly micaceous.		
745.5	28	Barren	-	、 -	Indeterminate	Greensand, dominated by pelletal glauconite, some fine quartz grains and pyrite.		

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MICROFOSSIL

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DEPTH (m)	<u>SWC</u> NO.	YIELD	PRESERVATION	ZONE	AGE	LITHOLOGY*
742.1	29	Low	Fair	Hl	Early Miocene	Recrystalized carbonate
740.3	30	Moderate	Fair	Hl	-Early Miocene	Recrystalized carbonate

Summary diagram - Leatherjacket-1

Lithologies from washed residues.

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