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Page 1 of 4

THE FORAMINIFERAL SEQUENCE IN ALBATROSS # 1

by

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2/4

INTRODUCTION

Eleven ditch cutting samples, at 100 foot intervals were investigated between 1490 feet and 2100 feet from the ALBATROSS # 1, oil exploration well. No conventional core or sidewall core material was available. The ditch cutting samples were not particularly useful regarding biostratigraphic or environmental analyses. The foram species found are listed in the distribution chart accompanying this report as page 2.

BIOSTRATIGRAPHY

For the highest sample at 1490 feet the association of *Praeorbulina glomerosa* and the earlier morphotype of *Globigerinoides bisphericus* indicates a horizon no younger than Zone F (= top early Miocene).

The interval between 1490 feet and 2090 feet cannot be accurately biostratigraphically divided because of down-hole contamination and apparently represents the early Miocene Zones F to H-1.

The dominance of *Globigerina spp.* and presence of *Globoquadrina dehiscens* (S.L.) suggests that the planktonic faunas at 2230 feet and 2270 feet represent Zone H-2 at the top of the Oligocene.

Absence of planktonic fauna at 2310 feet makes biostratigraphic designation impossible, but this lack of planktonics together with the benthonic association suggests the "Greensand" horizon.

The sequence was a shallow water one throughout, with depositional depths never exceeding 55 metres.

3/4

ALBATROSS # 1

P.

Ditch cuttings in feet at	1490	1590	1690	1810	1890	1990	2090	2160	2230	2270	2310
PLANKTONIC FORAMINIFERA											
<i>Orbulina universa</i>	1	1	1					°			
<i>Praeorbulina glomerosa</i> Gp.	°										
<i>Globigerinoides trilobus</i>	1	1	1				1				
<i>G. trilobus bisphericus</i>	°										
<i>Globorotalia miozea miozea</i>	1	1									
<i>Globoquadrina dehiscens</i> (S.S.)	1						°	1			
<i>Globigerina woodi woodi</i>	1	1	1	1	1	1	1	°			
<i>G. woodi connecta</i>	°						1	°			
<i>G. praebulloides</i> Gp.				1	1	1	1	1	D	D	
<i>Globigerinoides bisphericus</i>	1	°									
<i>Globorotalia praescitula</i>	°										1
<i>G. peripheroronda</i>	°										
<i>Globigerina ouachitaensis</i>				1	1						1
<i>Globorotalia mayeri mayeri</i>							°	°			
<i>G. mayeri continuosa</i>								°			
<i>Globoquadrina dehiscens</i> (S.L.)									1	1	
<i>G. altispira</i>									°		
<i>Globorotalia nana nana</i>									°		
<i>G. nana pseudocontinuosa</i>									°		
* total Foraminiferal fauna	10	10	20	60	10	20	30	60	50	60	0
ZONE	F	G	H-1	H-2							?

BENTHONIC FORAMINIFERA											
<i>Cibicides</i> spp (shallow water forms)	D	D	D	D	D	D	D	A	D	D	D
<i>Sphaeroidina bulloides</i>	A	°		A	A	A	A	1	A	1	
<i>Dyocibicides biserialis</i>	°	°		1	°	°				1	
<i>Cassidulina subglobosa</i>	1			°				°	1	1	1
<i>Gyroidinoides zealandica</i>				1				1	°		1
<i>Pullenia</i> spp.				1	°	°	°	1	1	°	
<i>Haplophragmoides</i> spp.				°							1
"Battered Robulus"							1	1	°		

GRAIN COMPOSITION.											
Foraminifera %	10	10	30	5	20	20	20	30	50	30	10
bry. calcarenite %	60	70	70		20	10	20	30	10		r
echinoid spines %	10	10		r	10	10	10	r			r
ostracodes	r	r									
adherent limonite %	20	10			20	20					
micritic canyon fill					70	30	60	60	40	20	
sponge spicules					r	r	r				
calc. siltst.											
pellet glauconite											
pellet limonite											
angular rounded quartz											

LEGEND

.	= 1-20 specimens
I	= 20 specimens
D	= >60% of specimens
A	= 50 specimens
C	= common

MICROPALAEONTOLOGICAL DATA SHEET

4/4

BASIN: GIPPSLAND

ELEVATION: KB: _____ GL: _____

WELL NAME: ALBATROSS # 1

TOTAL DEPTH: _____

AGE	FOFAM. ZONULES	HIGHEST DATA					LOWEST DATA					
		Referred Depth	Rtg	Alternate Depth	Rtg	Two Way Time	Referred Depth	Rtg	Alternate Depth	Rtg	Two Way Time	
PLEISTOCENE	A ₁											
	A ₂											
PLIOCENE	A ₃											
	A ₄											
MIOCENE	LAME	B ₁										
		B ₂										
		C										
	MIDDLE	D ₁										
		D ₂										
		E ₁										
		E ₂										
	EARLY	F			1490	4						
		G			↕							
		H ₁			2090	4						
	OLIGOCENE	LATE	H ₂			2160	4			2270	4	
			I ₁									
EARLY		J ₁										
		J ₂										
		J ₃										
Eocene	K											
	Pre-K											

COMMENTS: The age estimates are tentative due to contamination and poor preservation.

- CONFIDENCE RATING:
- 0: SWC or Core - Complete assemblage (very high confidence).
 - 1: SWC or Core - Almost complete assemblage (high confidence).
 - 2: SWC or Core - Close to zonule change but able to interpret (low confidence).
 - 3: Cuttings - Complete assemblage (low confidence).
 - 4: Cuttings - Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

NOTE: If an entry is given a 3 or 4 confidence rating, an alternative depth with a better confidence rating should be entered. If a sample cannot be assigned to one particular zone, then no entry should be made, unless a range of zones is given where the highest possible limit will appear in one zone and the lowest possible limit in another.

DATA RECORDED BY: Steven M. Conley

DATE: 26th March 1980

DATA REVISED BY: _____

DATE: _____