



PE990033

MICROPALAEONTOLOGICAL ANALYSIS
WILD DOG-1, PERMIT VIC-P-28
GIPPSLAND ~~BASIN~~
OTWAY

FOR
SHELL DEVELOPMENT (AUSTRALIA) PTY LTD

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I. INTRODUCTION

A total of 3 sidewall core samples from the interval 784m to 860m have been examined for foraminifera and calcareous nannoplankton in Wild Dog-1.

Fossil assemblages identified in the well section have been plotted on the distribution chart (Appendix No. 2).

II. REFERENCES

MARTINI, E., 1971. Standard Tertiary and Quaternary calcareous nannoplankton zonation. In: FARINACCI, A., (Ed). *Proc. 2nd Plank. Conf., Roma.* : 739-785.

TAYLOR, D.J., (in prep.). Observed Gippsland biostratigraphic sequences of planktonic foraminiferal assemblages.

APPENDIX NO. 1 : SUMMARY OF MICROPALAEONTOLOGICAL DATA, WILD DOG-1

DEPTH (m)	FORAM YIELD	FORAM PRESERV.	FORAM DIVERSITY	NANNO YIELD	NANNO PRESERV.	NANNO DIVERSITY
SWC22, 784	high	moderate	high	high	moderate	moderate-high
SWC21, 790	high	moderate	high	high	moderate	moderate-high
SWC19, 860	moderate	moderate	high	mod-low	poor	moderate

APPENDIX NO. 2: DISTRIBUTION FORAMINIFERA AND NANNOPLANKTON, WILD DOG-1

SPECIES /SAMPLES	SWC, 784m	SWC, 790m	SWC, 860m
BENTHONIC FORAMINIFERA			
<i>Globocassidulina subglobosa</i>	c	c	c
<i>Guttelina aff. yabei</i>	s		
<i>Quinqueloculina</i> spp.	c	f	
<i>Massilina</i> spp.	s		
<i>Bueningia creeki</i>	f		
<i>Cibicides semiperforatus</i>	s		
<i>Dorothia</i> spp.	r		
<i>Gyroidina zealandica</i>	r	s	
<i>Textularia</i> spp.	r		
<i>Cibicides mediocris</i>	c	r	
<i>Haplophragmoides</i> spp.	s		c
<i>Cibicides perforatus</i>	c	c	
<i>Eponides subhaidingeri</i>	f	f	f
<i>Guttelina problema</i>	r	s	r
<i>Epistominella</i> spp.	r		
<i>Trifarina parva</i>	s	r	
<i>Anomalinoides macroglabra</i>	f	f	r
<i>Fissurina</i> spp.	r	r	f
<i>Cibicides vortex</i>	f	f	r
<i>Sphaeroidina bulloides</i>	r	r	
<i>Favulina</i> spp.	s		
<i>Cibicides</i> spp.	f	c	f
<i>Sigmoilina</i> spp.	s		
<i>Ceratobulimina aff. pacificus</i>	s		
<i>Trifarina bradyi</i>	f	f	f
<i>Hanzawaia</i> spp.	r	s	s
<i>Hoeglundina elegans</i>	s	r	r
<i>Anomalinoides pinguiglabra</i>	s		
<i>Pullenia bulloides</i>	s	s	
<i>Nodosaria</i> spp.	s	s	
<i>Triloculina</i> spp.	s	s	
<i>Siphouvigerina canariensis</i>	s	r	f
<i>Rosalina ponticulus</i>	s		
<i>Brizalina</i> spp.	r	r	
<i>Astrononion</i> spp.	r		r
<i>Lagena</i> spp.	s	s	r
<i>Cibicides inflatus</i>	s		
<i>Cibicides thiara</i>		r	
<i>Cassidulina bradyi</i>		s	
<i>Heronallenia lingulata</i>		s	
<i>Cibicides lobulatus</i>		r	
<i>Pullenia quinqueloba</i>		s	s
<i>Cassidulina laevigata</i>		f	
<i>Lenticulina</i> spp.		r	s
<i>Anomalina</i> spp.		r	
<i>Baggina ampla</i>		s	
<i>Discorbinella</i> spp.		s	
<i>Bolivina</i> spp.		s	r
<i>Angulogenerina angulosa</i>		r	r
? <i>Eggerella</i> spp.			s

s = single, r = rare, f = frequent, c = common, a = abundant.

APPENDIX NO. 2: DISTRIBUTION FORAMINIFERA AND NANNOPLANKTON, WILD DOG-1

<i>Sigmoidella elegantissima</i>			r
<i>Nodosaria longiscata</i>			f
<i>Hyperammina</i> spp.			s
<i>Quadriformina laevigata</i>			r
<i>Baggina</i> spp.			r
<i>Biloculina</i> spp.			s
<i>Trochammina</i> spp.			s
<i>Reussella</i> spp.			s
<i>Rotamorphina</i> spp.			s
PLANKTONIC FORAMINIFERA			
<i>Subbotina linaperta</i>	r	r	s
<i>Globigerina</i> spp.	s	r	
Small planktonics	f	c	f
<i>Subbotina angiporoides angiporoides</i>		s	
<i>Chiloguembelina cubensis</i>			f
<i>Turborotalia</i> spp.			s
CALCAREOUS NANNOPLANKTON			
<i>Reticulofenestra umbilica</i>	f	f	f
<i>Cyclicargolithus floridanus</i>	a	a	f
<i>Coccolithus pelagicus</i>	f	r	f
<i>Dictyococcites productus</i>	r	r	
<i>Neococcolithus dubius</i>	r		s
<i>Braarudosphaera bigelowii</i>	s	r	
<i>Dictyococcites bisectus</i>	f	f	f
<i>Zygrhablithus bijugatus</i>	r	f	f
<i>Rhabdosphaera</i> spp.	r	r	f
<i>Sphenolithus moriformis</i>	r	s	
<i>Cribocentrum reticulatus</i>	r	r	s
<i>Transversopontis</i> spp.	s	s	
<i>Chiasmolithus</i> spp.	s		
<i>Pontosphaera multipora</i>	r	s	
<i>Cyclococcolithina</i> spp.		s	
<i>Isthmolithus recurvus</i>		r	
<i>Pontosphaera</i> spp.		s	r
<i>Helicosphaera</i> spp.		s	r
<i>Chiasmolithus grandis</i>			s
OTHER SKELETAL MATERIAL			
Bivalve fragments	c	f	
Gastropods	f	f	s
Echinoid debris	c	f	c
Bryozoan debris	c	c	
Otoliths	s		
Ostracods	s	s	s
Sponge spicules			s

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