

WELL COMPLETION REPORT

BULLSEYE-I

PALYNOLOGICAL REPORT

by L.E. Stover

PALYNOLOGICAL DETERMINATIONS FOR BULLSEYE-1, GIPPSLAND BASIN, AUSTRALIA

Ъу

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SUMMARY

<u>(Depth (in feet)</u>	Zone	Age
6700 6820 - 7000	Upper <i>N. asperus</i> or younger Lower <i>N. asperus</i> ("B" subzone)	Late Eocene or Oligocene Middle to Late Eocene Eocene
7029 - 7132	Lower <i>N. asperus</i> ("A" subzone)	Middle Eocene
7326 7458 - 7703	P. asperopolus Barren Interval	Early Eocene
7730	Lower M. diversus	Early Eocene

The above determinations are based on spore-pollen and dinoflagellate assemblages recovered from 11 of 16 sidewall cores. Preservation is generally fair to good with occasional well preserved specimens present in most assemblages. Recycled Permian spore-pollen occur at 6700, and 6860 feet while recycled Early Cretaceous forms were identified in assemblages from 6700, 7326 and 7730 feet. Dinoflagellates occur in all fossiliferous samples and the occurrences of spore-pollen species are shown on the accompanying distribution sheets.

LIST OF SAMPLES ...

<u>SMC</u>	<u>Depth</u>	Zone	Age	<u>Rtg</u> .
23	6700'	Upper N. asperus or younger	Late Eocene or Oligocene	2
21	6320'	" " "B"	нв	1
20	6850 '	D2 11 11 13	n n	Ó
19	6900'	17 J1 12 13	Middle to Late Eocene	ō.
18	6950'	11 11 · 13 · 11	H H H H	õ
17	7000'	11 IL II II	18 29 18 29	ñ
16	7029'	Upper N. asperus "A"	Middle Eocene	ĩ
15	7049'	n n n	D D	i
13	7132'	B R B 11	в в	i
11	7326'	P. asperopolus	Early Eocene	2*
8	7458'	Barren		
6	75451	81	· · · ·	•
5	7596'	n –		÷
4	7650'	n		
2	7703'	Π .		
1	7730'	Lower M. diversus	Early Eccene	1

*Alternate interpretation for SWC 11 at 7326 is Upper M. diversus zone; assemblage no older than Upper M. diversus or younger than P. asperopolus.

CONCULSIONS

The spore-pollen assemblage from 6700 feet is fairly typical of the assemblages known from the Late Eocene-Oligocene part of the section. Microplankton are common and indicate deposition in a marine environment.

Spore-pollen from the Lower N. asperus, P. asperopolus and Lower M. diversus zones in Bullseye-1 are generally much less diverse than comparable assemblages in other wells. Part of the low species diversity is attributable to the paucity of proteaceous pollen throughout the well and part is most likely due to the more marine aspect of the assemblages. The latter is shown by the fairly high diversity and/or common occurrence of dinoflagellates in nearly all of the samples. The presence of dinoflagellates contributed substantially by providing information helpful in making zone interpretations. Such determinations would have been less well documented and in some cases less precise if spore-pollen alone were available. WELL NAME BULLSEYE-1

ELEVATION KB-32', DF-31'

AGE	PALYNOLOGIC ZONES	HIGHEST DATA			·	LOWEST DATA					
		Preferred Depth	Rtg	Alternate Depth	Rtg	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
OLIGO- MIOC.	<u>T. bellus</u>										
	P. tuberculatus								· · · · · · · · · · · · · · · · · · ·		
OCENE	U. N. asperus	6700	2				6700	2			
	<u>L. N. asperus</u>	6820	1				7132	1			
	<u>P. asperopolus</u>	7326	2				7326	2			
H	<u>U. M. diversus</u>										
	L. <u>M</u> . <u>diversus</u>	7730	1				7730	1			
EO-	<u>L</u> . <u>balmei</u>			i							
PAI CF	<u>T. longus</u>										
	<u>T</u> . <u>lilliei</u>								•		
CEOUS	<u>N. senectus</u>										
LATI RETA(<u>C. trip./T.pach</u> .										
ទ	<u>C</u> . <u>distocarin</u> .										
	<u>T. pannosus</u>										
a.	<u>C</u> . <u>paradoxa</u>										
Y EOUS	<u>C. striatus</u>										
EARL' ETAC	U. <u>C</u> . <u>hughesii</u>					مەربىغىنىغىن					
CR	L. <u>C</u> . <u>hughesii</u>										
<u> </u>	<u>C. stylosus</u>										
Pre-	Cretaceous										
COMM	ENTS: <u>Sample fr</u> <u><i>M. divers</i></u>	om 7326 fee us.	t is	no younger	thai	n P. a	speropolus	or o	lder than	Uppe	r
RATI	NGS: O; SWC or pollen 1; SWC or pollen 2; SWC or and/or 3; CUTTING pollen 4; CUTTING micropl	CORE, <u>EXCEL</u> and micropl CORE, <u>GOOD</u> or micropla CORE, <u>POOR</u> microplankt S, <u>FAIR CON</u> or micropla S, <u>NO CONFI</u> ankton.	LENT ankt CONF nkto CONF on. FIDE nkto DENC	CONFIDENCE on. IDENCE, ass n. IDENCE, ass NCE, assemb n, or both. E, assembla	, as embla embla lage ge w	sembla age wi age wi with ith no	ge with zon th zone spe th non-dia zone specie n-diagnost:	ne sp ecies gnost es of ic sp	ecies of of spore ic spores either s ores, pol	spore s and , pol pores len a	s, len and nd/or
NOTE	If a sample ca Also, if an en better confide	nnot be ass try is give nce rating	igne n a shou	d to one pa 3 or 4 conf 1d be enter	rtico ideno ed, :	ilar z ce rat lf pos	one, then n ing, an alt sible.	no en terna	try shoul te depth	d be with	made. a
DATE	RECORDED BY: <u>L</u> .	E. Stover				D	ATE <u>Februa</u>	ry 19	174		
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