

WCR BULLSEYE-1 (W677)



36 pages of 3 enklor

CONFIDENTIAL

WELL COMPLETION REPORT BULLSEYE-1

ESSO AUSTRALIA LTD.

CONFIDENTIAL

D.M. Maughan L.J. Brooks

April, 1974

WELL COMPLETION REPORT

BULLSEYE-1

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TV.

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ESSO STANDARD OIL (AUSTRALIA) LTD.

COMPLETION REPORT

I WELL DATA RECORD

Date January, 1974

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LOCATION

WELL NAME	STATE	PERMIT or LICE	NCE	GEOLOGICAL BASIN	FIELD
					New Field
BULLSEYE-1	VICTORIA	VIC/P1		GIPPSLAND	Wildcat
CO-ORDINATES (Sur	face)		MAP	GEOGRAPHICAL	
Lat.	Long.		PROJECT	ION DESCRIPTION	
Lat. 38° 35' 29	9.352''S X= 54	9,337 m.E	Australi National		f Bream-2
Long. 1470 33	59.466"E Y=5	,728,388 m.N	Spheriod	UTM 7 INLIES SE O	f Dolphin-1
			Projecti A.M.G.	on	
			, A	St. I	
		ELEVATIONS	& DEPTHS	and a second sec	
ELEVATIONS	WATER DEPT	777		4	
	MALEA DEFI	Ln.	TOTAL DE		Avg.Angle
Ground		192'	M.D.	7768' Str	aight Hole
KB 32'		. [XXXXXX		
RT	PLUG BACK	DEPTH /	REASONS	FOR P.B.	
Braden Head		295'		Abandonment	
Top Deck Platform		1.50	1		
		Angeling and a grade of the second		ana para na ana amin'ny fanana mana amin'ny fanana amin'na amin'na amin'na amin'na amin'ny fanana amin'ny fana	
		DATES			
		/			
MOVE IN	RIG U		1	PUDDED	
November 22, 1973	N	ovember 24, 197:	3,	November 24,	1973
RIG DOWN COMPLETE	RIG R	ELEASED /	P	ROD.UNIT - Start R	igging Up
December 5, 1973	D	ecember/5, 1973			
PROD.UNIT - Rig Doy	n Complete /		P. ESTABL	TSHED	
	- / 4	Ne / 1			
	A CONTRACTOR OF THE OWNER	/		·	
ala da mandra da mandra da se da ante ante porte de la composition de la composition de la composition de la co -	2	/			
		MISCELLA	NEOUS	· ·	
	· ·	·		•	
OPERATOR	PERMITTEE	or LICENCEE	ESSO IN	NTEREST OTHER 1	INTEREST
Esso Australia Ltd.	Hemati	ite .	Well	100%	
0037772.1.07			Other	Nil	
CONTRACTOR	RIG I			EQUIPMENT TYPE	and a second
Global Marine A/Asia	Pty.Ltd.	Glomar Concepti	on	Drilling Vesse	L
1	DRILLING AFE 1	NO. COMPLE	TION NO.	TYPE COMPLE	TION
13.13	233-015				
7 4 113 11 + +++ +					
LAHEE WELL	Before I	Drilling New	Field Wil	dcat	
CLASSIFICATION	After I	Drilling Unsu	ccessful [New Field Wildcat	with No
			Hydrocar	bon Shows.	

Geologist

n a la a	*****	MIT PRITON	С.			
Date	WELL C Oil We	COMPLETION A		Well	Dry Hole	
Choke size, i	nch			Calcula	ted P.I.	
Length of Tes	t			Calcula	ted A.O.F	
Oil, BPD				Perfora	tions	
Water, BPD				Shut-In	BHP	
Gas, MCFD				Flowing	внр	
Gas Liquids,B	PD	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	· ·	Shut-In	Toping Press	
Gas-Oil Ratio			****	Flowing	Tubing Press	
Gravity, API				Flowing	Temper- ature	• • • • • • • • • • • • • • • • • • •
en an ann an a						l
III						
* * *	PERFORATI	ING RECORD (Prod.test for	pletion, DS	T, FIT)	
INTERVAL	HPF	TOTAL SHOTS	SERV. CO.	DIFF. PRESS.	T, FIT) PERFORATION FLUID	SIZE AN TYPE GU
		TOTAL		DIFF.	PERFORATION	
		TOTAL		DIFF.	PERFORATION	
<u></u>		TOTAL		DIFF.	PERFORATION	
<u></u>		TOTAL		DIFF.	PERFORATION	
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<u></u>		TOTAL		DIFF.	PERFORATION	

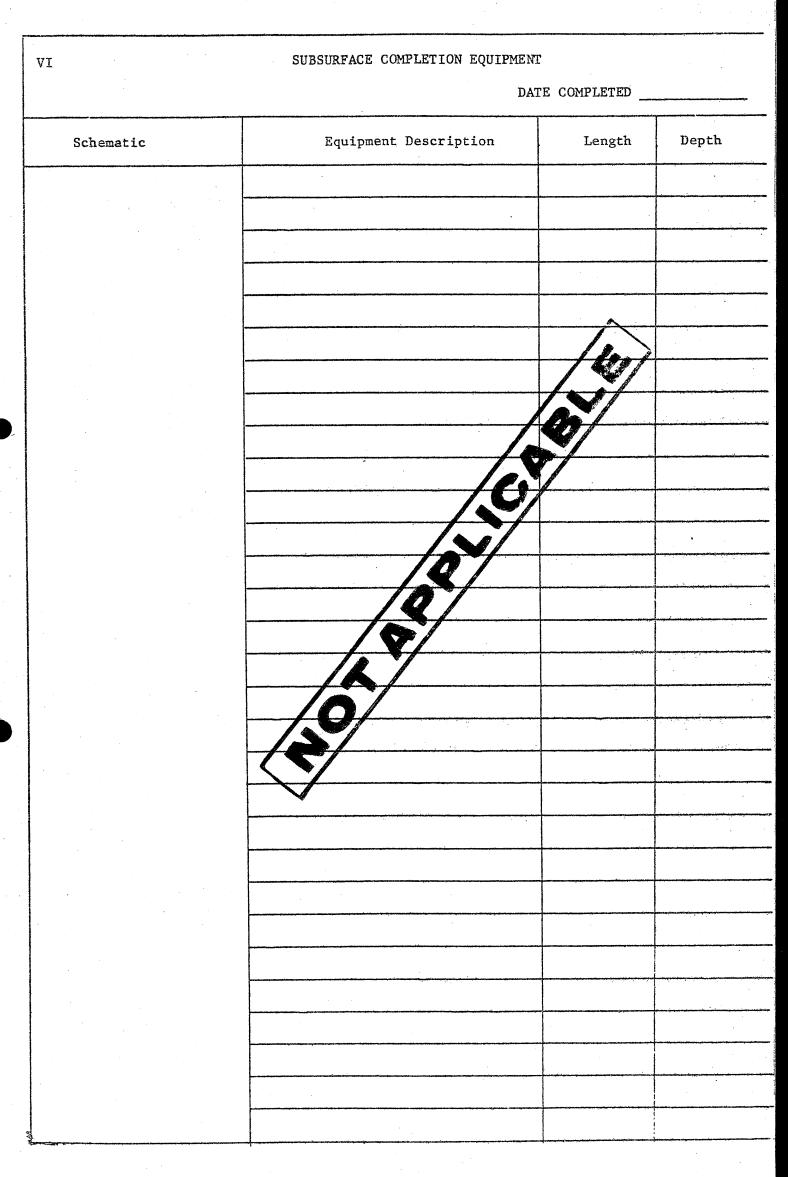
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IV	•		CASI	NG - LINER	- TUI	SING REC	CORD	•	
Тура	Size	Weig	nt	Grade	Tł	read	No. Joints	Amount	Depth
KB ELEV	ATION ABO	Æ CASI	NG HE	AD				215.00	215.00
20''/30	' PILE JO	INT						34.02	249.02
	20''	91.5	ŧ	X52 LP		IV	9 + Float Shoe	352.44	601.46
KB ELEV	ATION ABO	VE HANG	ER					220.00	220.00
	10-3/4"	40.5	#	J-55	BI	ЛТ	62+ Float Collar	2468.20	2688.20
	10-3/4"	40.5	#	J-55	BI	ЛТ	1+/Float/Shoe	39.96	2728.16
						/			
							53/		1
							24		
						1		9	
						C.S. I			
					17	• * /			
			· · ·		100				<u></u>
v				CEMENT I	RECORE	/	ang na ang na kanang		
String				2011			10-3/4"	 	- -
Type of	Cement) sx Aust N wst N+2% C) sx Aust N 1% CaCl ₂		### ¹ *****
Number o	f FT ³		1711			507			
Average	weight of	slurry		15.6 p	pg	15.6 ppg			
Cement T	op ·		Se	a Floor		1500'			÷;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Casing T	ested with	n		500 ps:	i	······	1500 psi		**************************************
Number o	f Central:	izers	••••,•••	6		· · · · · · · · · · · · · · · · · · ·	10	andan yuundu ahaa ayamuu dayyaanda yu asanaa 2002 y	
Number o	f Scratche	ers		n ta canan di da any gan di ga ta canan ang ang ang ang ang ang ang ang ang			-		998 - 1984 - 199 (kalandar an
Stage Co	llar etc.				9 -4-5-5 -6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-		-		
Remarks				*****		Tested	formation to		

R.W. Oliver Engineer

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WELL

VII		SAMPLES, CONVENTI	ONAL CORES, SW CO	RES		
INTERVAL	TYPE	RECOVERED	INTERVAL	TYPE	REC	OVERED
680' to 7760'	5 sets washed and dried samp		•			
680' to 7760'	l set unwashed samples	Every 10-30 ft	•			
680' to 7760'	Canned samples	Every 100 ft.				
2800' to 7730'	Sidewall cores - 2 guns	Shot 60 Recovered 56				
ente Service Service Service						
III	2	WIRELINE LOGS AND	SURVEYS (Incl. FIT))	l.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Type & Scale		From To	Type & So	cale	From	То
Borehole Compen Sonic - G.R. 5"	sated & 2''	2748' - 200' GR • 2748' - 600' SLK •	A.			
4 Arm High Resc Continuous Dipm 10''=100'		7758' -6800'.				•
		7700'-2731' GR/CA 7700'-6650' FDC/CI	S. / NE			
Formation Densi	cy					
Formation Densi 5" & 2"		7756' - 2731'-				
Formation Densi 5" & 2" ISF/Sonic 5" & F.I.T. #1 F.I.T. #2			•		•	
Formation Densi 5" & 2" ISF/Sonic 5" & F.I.T. #1 F.I.T. #2 F.I.T. #3 Velocity Survey	2"	7756' - 2731'- 7680' 7500'				•
Formation Densi 5" & 2" ISF/Sonic 5" & F.I.T. #1 F.I.T. #2 F.I.T. #3 Velocity Survey Check shots at	2"	7756' - 2731'- 7680' 7500' 7158' -				
Compensated Neu Formation Densi 5" & 2" ISF/Sonic 5" & F.I.T. #1 F.I.T. #2 F.I.T. #3 Velocity Survey Check shots at depths	2"	7756' - 2731'- 7680' 7500' 7158' -				•

Geologist

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BULLSEYE-1 WELL IX FORMATION TOPS/Zones Tops Net Pay (ft). Gross REMARKS NAME M.D. Sub-sea Interval (ft) Gas 011Gippsland Fm. Lakes Entrance 224' 192' 6496' Formation OLIGOCENE-Recent Latrobe Group EOCENE 6720' -6688' 598' N.asperus 7318' -7286' 380' P.asperopolus 7698' M.diversus -7666' 102'

GEOLOGIC ANALYSIS (Fre Drilling prognosis Vs actual results)

Pre-Drill

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The Bullseye prospect was interpreted as a low relief, faulted anticline at the top of the Latrobe Group. Two of the seismic lines, 669B-309 and G69B-310, over the prospect were thought to exhibit direct hydrocarbon indicators. Bullseye-1 was proposed to test the interpreted structural closure containing these apparent hydrocarbon indicators.

It was noted that poor quality data precluded detailed pre-drill analysis and that channelling within the overlying Miocene section created problems in the velocity interpretation.

Post-Drill

Bullseye-1 intersected the top of Latrobe at -6688' (subsea). This was 248 feet low to prediction because the average velocity to the top of Latrobe was faster than predicted. This is attributed to the presence of the hard, microcrystalline limestone section, having anomalously high interval velocity, within the Miocene channel sequence. The upper Latrobe section proved to be a sequence of, interpreted marginal marine, shale; an interbedded coarse clastic sequence was intersected between -6988 feet and T.D. No hydrocarbon shows were encountered during drilling.

Subsequent reprocessing of seismic lines G69B-309 and G69B-310 showed the events thought originally to be DHI's to be less pronounced and that other interpretations are possible.

The section penetrated in Bullseye-1 was, in a gross sense, as predicted. Good reservoir rocks (20% porosity and adequate permeability) exist within the Latrobe Group whilst the overlying Lakes Entrance Formation provides a satisfactory seal.

The post-drill structural interpretation, following detailed analysis of the reprocessed seismic data, shows no closure over the prospect; therefore no hydrocarbon trap exists at the Bullseye location.

APPENDIX 1

WELL COMPLETION REPORT

BULLSEYE-I

SAMPLE DESCRIPTIONS

		BULLSEYE-1 BASIC
DEPTH	%	SAMPLE DESCRIPTION
680- 770	100	Calcarenite, gy-wh, grading to calcirudite, poorly std, abund. frags of skeletal material, e.g., gastropods, molluscs, forams bryozoa. Mostly worn, broken, obviously transported.
770- 800	100	Calcirudite aa
800- 890	100	Calcirudite aa with 50% limonite coated frags.
890- 950	100	Calcirudite aa
950-1040	100	Calcirudite aa
1040-1220	100	Calcirudite aa grading into calcarenite at 1100', becoming marly, fine grained, better consolidated micrite matrix, soft.
1220-1310	100	Calcarenite, yellow-grey, gen. loose, somecmtd, with grey micrite. Pred. skeletal, gen fragmented bryozoa branches, forams and minor shell. Mod. well sorted.
1340-1610	100	Calcarenite aa
16-1820	100	Calcarenite aa
1616 1820-2180	100	Calcarenite aa becoming less skeletal & more marly below 2000'.
2180-2270	100	Carcarenite aa
2270-2360	100	Calcarenite aa cemented in small aggregates with micrite
2360-2540	100	Calcarenite, very marly, increased amount of skeletal material.
2540-2753	100	Marl, containing abundant skeletal material, firm to sticky, light grey
2753-2960	100	Marl, firm to hard, light grey, occ. gummy
2960-3050	100	Marl aa
3050-3140	100	Marl aa
31-3170	100	Marl aa
3170-3260	100	Marl aa
3260-3440	100	Marl aa becoming sl. argillaceous, light to dark grey, firm to soft
3440-3470	100	Marl aa
3470-3650	100	Marl aa
3650-3740	100	Marl aa slightly silty
3740-3770	100	Marl aa
3770-3830	100	Marl aa
3830-3920	100	Marl aa
3920-3980	100	Marl aa
3980-4010	100	Marl aa
4010-4040	100	Marl aa
4040-4160	100	Marl aa

The second secon	~ <u>~</u>	BULLSEYE -1
DEPTH	%	SAMPLE DESCRIPTION
4160-4250	100	Marl aa, dark grey, firm to moderately soft, occ. argillaceous
4250-4340	100	Marl aa, slightly shaley
4340-4610	100	Marl aa
4610-4700	100	Marl aa
4700-4850	100	Marl aa
4850-5060	100	Marl aa, slightly shaley
5060-5210	100	Marl aa
5210-5270	60 40	Marl aa Limestone, white, hard
5270-5300	70 30	Marl aa Limestone aa
5300-5330	80 20	Marl aa Lst., aa
5330-5360	90 10	Limestone, partly microcrystalline, hard, grey to white Marl aa
5360-5390	70 30	Lst., aa Marl aa
5390-5420	70 30	Marl, grading to calc., siltstone Lst., aa
5420-5450	80 20	Lst., aa Calc. siltstone aa, grey, firm, subfissile in pt.
5450-5480	80 20	Lst., aa calc. siltstone aa
5480-5510	100	Limestone aa, minor dolomite, pyrite
551 540	100	Lst., aa
5540 - 5570	70 30	Lst., aa Calc. siltstone aa

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Edwards/Davidspn

29th Nov 1973

BULLSEVE -1

Bullseye-1		
55 70- 5600	50%	Marl light grey soft forams
	50%	Calcarenite white - light grey moderately firm, minor lithics
	n talon Win Anna A	minor pyrite
5600-5630	50%	Calcarenite as above. Minorglauconite
	50%	Marl grey moderately soft, minor lithics, forams
5630-5660	30%	Calcarenite as above
and and a second se	70%	Marl grey moderately firm, minor lithics
5660 - 5690	30%	Calcarenite as above
	70%	Marl as above
5690-5720	20%	Calcarenite as above
	80%	Marl silty grey to light grey, firm, lithic fragments, forams
5720-5750	70%	Marl as above
	30%	Calcarenite, white-light grey, fine grained, some crystalline calcite
	control designed a control	trace glauconite trace pyrite
575 0- 5780	70%	Calcarenite light grey fine grained, abundant glauconite lithic
		fragments.firm, some crystalline calcite
	30%	Marl as above
578	50% 50%	Calcarenite as above Marl as above
5810-5840	40%	Calcarenite as above
	60%	Marl as above
5840-5870	80%	Marl light grey to grey silty, moderately firm to soft forams
	20%	Calcarenite light grey clayey moderately firm,glauconitic,crystalline
		calcite
5870-5900	80%	Marl as above
	20%	Calcarenite as above
5900-5930	80%	Marl as above
	20%	Calcarenite as above
-		

SAMPLE DESCRIPTIONS

		Page 4 30th Nov 1973 Bulls Eye ~(
	and and an an	SAMPLE DESCRIPTIONS	Distriction.
Edwards/David	son		re ute t e
Bullseye-1	n Standard V		
5930-5960	60%	Marl light grey to grey moderately firm to soft, silty in part, forams	
	40%	Calcarenite light grey, very clayey, moderately firm to friable,	
•		trace pyrite some crystalline calcite	•
59605990	60%	Marl as above	
	40%	Calcarenite as above	
5990-6020	70%	Marl as above	
	30%	Calcarenite as above	
6020-6050	70%	Marl as above	
	30%	Calcarenite light grey clayey moderately firm to friable, some	• .
		crystalline calcite	
6050 -6 080	80%	Marl as above	
	20%	Calcarenite as above	
6080-6110	20%	Calcarenite as above	
6110-6140	100%	Marl as above	
6140-6170	90%	Marl as above	
	10%	Calcarenite as above	
6170-6200	90%	Marl as above	•
	10%	Calcarenite as above	
620 6230	90%	Marl as above	
	10%	Calcarenite as above	
6230-6260	100%	Marl grey moderately firm, often silty and glauconitic, forams,	
		rare crystalline calcite	
6260-6290	100%	Marl as above	
6290-6320	100%	Marl light grey to grey moderately firm often silty or sandy,	
		glauconitic, trace coal fragments, trace pyrite, trace crystalline	
	ς.	calcite	
6320-6350	100%	Marl as above	
6350-6380	100%	Shale, calcareous light grey to grey often silty or sandy	
		glauconitic, trace coal fragments, forams	
6380-6410	100%	Shale as above	
6410-6440	100%	Shale as above	÷
6440-6470	100%	Shale as above	
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BULLSEYE -1

SAMPLE DESCRIPTIONS

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	ov na vrođen de	
Edwards/David	son	
Bullseye-1		
6470-6500	100%	Shale as above
6500-6530	100%	Shale as above
6530-6550	100%	Shale as above
6550-6560	100%	Shale calcareous grey to light grey-green moderately firm to
	T AND LOT THE IS	moderately soft, silty or sandy in parts, glauconitic, trace coal
		fragments, forams
6560 - 6570	100%	Shale as above
6570-6580	100%	Shale as above
6580-6590	100%	Shale as above
6590-6600	100%	Shale as above
6600-6610	100%	Shale as above trace pyrite
6610-6620	100%	Shale calcareous light grey to grey parts sandy or silty and
	San	glauconitic trace pyrite, forams, moderately firm.
662 0-66 30	100%	Shale as above
6630-6640	100%	Shale as above
664 0-66 50	100%	Shale as above
6650-6660	100%	Shale as above
6660-6670	100%	Shale as above
6670-6680	100%	Shale as above
668 0-66 90	100%	Shale as above
6690 -67 00	100%	Shale calcareous light grey-green to grey often silty or sandy and
		glauconitic moderately firm trace pyrite, forams
6700-6710	100%	Shale as above
6710-6720	100%	Shale as above becoming more silty
672 0-67 30	100%	Silty shale as above
6 730-67 40	100%	Silty shale calcareous light grey to grey-brown often sandy glauconitic,
		trace coal fragments, forams
6740-6750	100%	Shale as above
6750-6760	100%	Shale as above
6760-6770	100%	Shale as above
6770-6780	100%	Shale as above
6780-6790	100%	Shale as above
	TOO%	

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	4	BULLSEYE -1
		SAMPLE DESCRIPTIONS
Edwards/David	gon	
Bullseye-1	e etc.	
6790-6800	100%	Shale, calcareous, silty in part, grey moderately firm, platy trace
	lo d'attaine anti-	glauconite
6800-6810	70%	Shale as above
	30%	Siltstone calcareous light grey-brown moderately friable, glauconitic,
	CANANYS	coal fragments forams
6810-6820	60%	Shale as above
	40%	Siltstone as above
6820-6830	70%	Shale as above
	30%	Siltstone as above
6830-6840	100 W 100	As above
- -		
	- TIL WELTING	2nd Dec 1973
	rive tear-tra	
6840-6850	うで成長でお	As above
6850-6860	50%	Shale as above
	50%	Siltstone calcareous light grey to grey brown moderately firm,
	110-110-110-1-1-1-1-1-1-1-1-1-1-1-1-1-1	glauconitic coal fragments forams trace pyrite (massive)
6860-6870	0421-0-415	As above
6870-6880		As above
6880-6890	20%	Shale as above
	80%	Siltstone calcareous moderately friable clayey, grey-brown,glauconitic trace coal fragments forams
6890-6900	50%	Shale as above
	50%	Siltstone as above
6900-6910		As above
69 69 20		As above
6920-6930		As above
6930-6940		As above
6940-6950		As above
6950-6960		As above
6960-6970		As above
6970-6980		As above
6980-6990	70%	Siltstone calcareous sandy moderately friable, brown glauconitic coal fragments forams trace massive pyrite
	30%	Claystone calcareous light grey silty moderately firm subfissile

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BULLSEVE -1

		SAMPLE DESCRIPTION
Edwards/David	lson	
Bullseye-1		
6990-7000	40%	Siltstone as above
	60%	Shale as above
7000-7010	47459-47962	As above
7010-7020	40%	Siltstone as above
	50%	Shale as above
	10%	very coarse to coarse quartzose sandstone grains pyritic, rounded, clear
• •		slightly milky
7020-7030	20%	Shale as above
•	50%	Siltstone as above
	30%	Sandstone as above
7030-7040	50%	Shale as above
	50%	Siltstone as above trace sandstone (less than 5%)
7040		As above
7050-7060	70%	Sandstone clean loose rounded slightly milky quartzose coarse to very
	C.S. ve Båderi 414 s	coarse grained moderately sorting.
	10%	Shale as above
	20%	Siltstone as above
7060 -7070	50%	Sandstone as above
• •	20%	Shale as above
	30%	Siltstone as above
7070-7080	10%	Sandstone as above .
	60%	Shale as above
	30%	Siltstone as above
080-7090	30%	Sandstone as above
	40%	Siltstone as above (cavings)
	30%	Shale as above (cavings)
7090-7100		As above
7100-7110		As above
7110-7120		As above
7120-7130	90%	Sandstone as above 10% siltstone and shale cavings as above
7130-7140	70%	Sandstone as above 20% siltstone as above, 10% shale as above
7140-7150		As above
7150-7160	8 F 4 Fritz	As above
7160-7180	100%	Sandstone as above trace cavings
7180-7200		As above
7200-7220		As above
7220-7240		As above
7240-7260		As above
7260-7280		As above
7280-7290		As above
a su		

	r 4	Page 8 2nd Dec 1973	
· · •		BULLSEVE -1	1
		SAMPLE DESCRIPTIONS	
Edwards/Dav Bullseye-1	1		
7290-7300	100%	As above	
7300-7310	40%	Sandstone as above (some loose mica flakes)	
	50%	Coal, black, bituminous, sub conchoidal fracture	
	10%	Cavings	
7310-7320	40%	Sandstone as above	
	30%	Light brown to dark brown carbonaceous siltstone fairly soft, pyritic	
· .	30%	Coal as above trace cavings as above	-
7320-7330	20%	Sandstone as above (a few sub angular grains)	
	30%	Siltstone as above	
	50%	Coal as above trace cavings	
7330-7340	20%	Sandstone as above	
	50%	Siltstone as above	
	30%	Coal as above trace cavings	
7340-7350	20%	Sandstone as above	
	30%	Siltstone as above	2
	50%	Coal as above	
7350-7360	10%	Sandstone as above	
	40%	Siltstone as above	
	50%	Coal as above	
7360-7370	20%	Sandstone as above	
	40%	Siltstone as above	
	40%	Coal as above	• .
7370-7380	50%	Sandstone as above	
	30%	Siltstone as above	
	20%	Coal as above	
		3rd Dec 1973	·
···			
7380-7390	100%	Sandstone as above trace cavings	
7390-7400	100%	As above	
7400-7410	100%	As above	
7410-7420	100%	As above	
7420-7430	90%	Sandstone as above	
7/00 7//0	10%	Coal as above trace siltstone, cavings	
7430-7440	30%	Sandstone as above	
	10%	Siltstone light grey to grey-brown, moderately firm, pyritic, micaceous	>
	609	carbonaceous in part	
7460 7450	60%	Coal as above	
7440-7450	40%	Sandstone as above	
Active of the second	20%	Siltstone as above	a service of the second
	30%	Coal as above	and descent a bu
			and the state of the state
4000-1574 1			
and the second sec	Theory		

Page 9

3rd Dec 1973

		BULLSEYE -1
		SAMPLE DESCRIPTIONS
Edwards/Dav:	idpon	
Bullseye-1	in white the second	
	1.0%	
7450-7460	10%	, second the model at the sole micaceous
7430-7460	60%	
	20%	
	10%	
7/60 7/70	10%	
7460-7470	80%	
	10%	
	10%	
7470-7480	100%	
7480-7490	La	As above
7490-7500	90%	Sandstone as above
	10%	Siltstone light grey moderately firm micaceous partly carbonaceous,
	120°111111	pyritic
7500-7510	100%	Sandstone as above trace siltstone, coal
7510-7520	70%	Sandstone as above
	30%	Siltstone offwhite to light grey, moderately firm micaceous pyritic
	12.00 C.C.	carbonaceous in part glauconitic in part
7520-7530	70%	Sandstone as above
· · · ·	30%	Siltstone as above no glauconite
7530-7540	30%	Sandstone as above
	50%	Siltstone as above
	20%	Shale offwhite fissile moderately soft micaceous
7540-7550	70%	Sandstone as above
•	30%	Siltstone as above
	10%	Shale as above
7550-7560	90%	Sandstone as above
	10%	Shale as above
7560-7570		As above
7570-7580		As above
7580-7590	60%	Sandstone coarse to very coarse quartzose clear to slightly milky
		grained subrounded to subangular, unconsolidated moderate sorting
		some pyrite encrusted grains.
	40%	Siltstone calcareous both light grey to grey-brown moderately soft to
		moderately firm, micaceous, pyritic in part, glauconitic in part, some
		carbonaceous material fossils bryzoans
7590-7600	30%	Sandstone as above
	70%	Siltstone as above
7600-7610	80%	Sandstone as above
	20%	Siltstone as above
7610-7620	70%	Sandstone as above
1. K. K	30%	Siltstone as above
	가 다 다 다 다 다 다 다 다. 다 다 다 다 다 다 다 다 다 다 다	

Page 10

SAMPLE DESCRIPTIONS

3rd Dec 1973

BULLSEYE -1

	1	
Edwards/David	lson	
Bullseye-1		
7620-7630	60%	Sandstone as above
	40%	Siltstone as above
7630-7640	40%	Sandstone as above
	60%	Siltstone as above
7640-7650	60%	
7650-7660	20%	Siltstone as above
	80%	Sandstone as above
7660-7670	100%	Sandstone
7670-7680	100%	Sandstone
7680-7690	80%	Sandstone as above
	10%	Siltstone as above
	10%	Coal bituminous, clean, conchoid fracture
7690 700	ary mark	As above
7700-7710	90%	Sandstone as above 10% cavings
7710-7720	90%	Sandstone as above trace very fine sandstone, clean well sorted soft
		10% cavings
7720-7730	20%	Sandstone as above increasing percent of very fine sandstone - not
	an the second second	always clean
	10%	Siltstone
	70%	Marl, shale and siltstone cavings as above
7730-7740	40%	Very coarse sandstone as above trace very fine sandstone
	10%	Siltstone as above
	50%	Cavings
7740-7750	90%	Sandstone as above minor percentage medium subrounded cemented sandstone
	איז	fairly friable
	10%	Cavings
		Lost pump pressure - pulled out of hole
		Total depth 7768' (driller)
7750-7760	100%	Sandstone as above trace cavings



WELL COMPLETION REPORT

BULLSEYE-I

SIDEWALL CORE DESCRIPTIONS

BASIC

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SIDEWALL CORE DESCRIPTIONS

BULLSEYE-1

Peter B. Edwards December, 1973

45

Core No.	Depth	Recovery	Description
1.	7730	1_'' 2''	<u>Siltstone</u> . light grey clayey, micaceous, slightly pyritic, friable.
2.	7703	14"	<u>Claystone</u> . very light brown, featureless, soft to firm.
3.	7659	1 ³ /4''	Sandstone. quartzose, off-white, pyritic in places, medium to very coarse, angular to subangular grains, poor sorting, clear to slightly milky quartz; friable.
4.	7650	1_11 2	Sandstone. off white, clayey, fine grained, friable.
5.	7596	14"	<u>Claystone</u> . Light grey, firm.
6.	7546	1½"	<u>Claystone</u> . as above.
7.	7478	³ /4"	Sandstone. quartzose, grey to white, pyritic bands, fine to very coarse, angular to subangular grains poor sorting, clear to slightly milky quartz. friable.
8.	7458	1^{1}_{2} "	<u>Claystone</u> . Light grey, firm.
9.	7444	N.R.	
10.	7418	1"	Sandstone. quartzose, very light grey, fine to very coarse, subangular grains, poor sorting, friable.
11.	7326	1"	Sandstone. quartzose, brown, silty, fine grained, finely divided dispersed pyrite, friable.
12.	7184	12"	Sandstone. quartzose off white. medium grained, angular to subangular, clear to slightly milky quartz,fair sorting, unconsolidated.
13.	7132	14"	Sandstone. quartzose, light grey, medium grained, subangular, slightly pyritic, fair sorting, friable.
14.	7075	1"	Sandstone. quartzose, clean white. medium grained, well sorted, subangular to subrounded, unconsolidated.
15.	7049	3/4"	Siltstone. quartzose, grey-brown, clayey, pyritic in patches, friable.
16.	7029	1"	Sandstone. quartzose, grey, fine to coarse grained, angular to subangular, poorly sorted, abundant pyrite, glauconite in places, friable.
17.	7000	1 ¹ 2''	Siltstone. dark grey-brown, clayey, calcareous, micaceous, abundant sand sized glauconite grains, friable.

S.W.C

-2-

BULLSEVE -1

Core No.	Depth	Recovery	Description
		· · · · · · · · · · · · · · · · · · ·	
18.	6950	1½"	<u>Claystone</u> . dark grey-brown, silty, calcareous, abundant sand sized glauconite grains slightly micaceous, anhydrite? bands, firm.
19.	6900	1½"	<u>Claystone</u> . grey-brown, slightly silty, very calcareous, glauconitic as above, firm to soft, subfissile.
20.	6860	1½"	<u>Claystone</u> , dark grey-brown, slightly silty, very calcareous, slightly micaceous, sand sized glauconitic grains, firm.
21.	6820	1"	<u>Claystone</u> , brown, very silty, very calcareous, micaceous, glauconitic as above, soft-firm.
22.	6750	N.R. ŕ.	*
23.	6700	1 ³ /4"	<u>Claystone</u> . grey-brown, very calcareous, micaceous, firm.
24.	6650	14"	<u>Claystone</u> . grey-brown, very calcareous, slightly micaceous, forams, firm.
25.	6600	1 ³ /4"	<u>Claystone</u> . as above.
26.	6550	112"	<u>Claystone</u> . as above.
27.	6500	$1^{\frac{1}{2}}$ "	<u>Claystone</u> . as above.
28.	6450	14"	<u>Claystone</u> . light grey, very calcareous, slightly micaceous, abundant grains of glauconite, mostly round, sand sized, forams, firm.
29.	6400	1 ³ /4"	<u>Claystone</u> . light grey, very calcareous, slightly micaceous, common sand sized round glauconitic and calcareous grains, firm.
30.	6350	14"	Marl. light grey, slightly micaceous, forams, firm.
31.	6740	1½"	<u>Claystone</u> . grey-brown, silty, very calcareous, micaceous, abundant round glauconite grains. firm to soft.
32.	6300	1"	<u>Marl</u> . grey, common round fine calcareous grains. firm, subfissile.
33.	6250	1 ³ /4"	Marl. grey, firm to soft.
34.	6200	1 ³ /4"	Marl. firm, subfissile.
35.	6150	1 ³ /4"	Marl. grey, forams, firm.
36.	6100	1 ³ /4"	Marl. as above.
37.	6000	1411	Lost ?

2 3 -3-

			S.W.C. BULLSEVE-1
Core No.	Depth	Recovery	Description
38.	5900	1 ¹ / ₂ "	Marl. dark grey, firm.
39.	5800	N.R.	
40.	5640	1 ¹ / ₂ "	<u>Marl</u> . grey, forams, fine rounded calcareous grains firm, subfissile.
41.	5480	1_11	Marl. as above.
42.	5366	³ /4"	<u>Calcarenite</u> . light grey to dark grey, clayey, fine grained, rare glauconite, firm.
43.	5300	N.R.	
44.	5200	1 ³ /4"	Marl. grey, firm to soft, subfissile.
45.	5050	3/4"	Marl. as above.
46.	4900	³ /4"	Marl. light grey, firm.
47.	4775	14"	Marl. grey, firm.
48.	4600	14"	Marl. light grey, firm to soft.
49.	445 0	1"	Marl. as above.
50.	4302	³ /4"	Marl. light grey, common fine glauconite and calcareous grains, soft.
51.	4150	1_1" 12"	Siltstone. grey, very calcareous, clayey, very firm.
52.	4000	3/4"	Marl. grey, forams, small calcite veins, very firm.
53.	3850	1"	Marl. light grey fossils, patches of crystalline calcite, rare glauconite, firm.
54.	3672	³ /4"	<u>Marl</u> . as above.
55.	3550	1"	Marl. light grey, firm.
56.	3400	1"	Marl. as above.
57.	3250	14"	Marl. as above.
58.	3100	1''	Marl. as above
59.	2950	³ /4"	Marl. light grey, forams, patches of crystalline calcite, rare glauconite grains, very firm.
60.	2800	1 ¹ ₂ "	Calcarenite. light grey to off-white, forams, very fine grained, rare glauconite, firm.

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WELL COMPLETION REPORT

BULLSEYE-I

PALAEONTOLOGICAL DATA SUMMARY

by D.J. Taylor

BASIN GIPPSLAND

DATE DECEMBER 1973

WELL NAME BULLSEYE-1

ELEVATION KB-32', DF-31'

AGE	PALYNOLOGIC		HIC	GHEST DATA				I	OWEST DAT	A	
	ZONES	Preferred Depth	Rtg	Alternate Depth	Rtg		Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
OLIGO- MIOC.	<u>T. bellus</u>			· · · ·							
IW DILI	<u>P. tuberculatus</u>				7	-				·	
	U. N. asperus	6700	2				6700	2			
NE	L. <u>N. asperus</u>	6820	1				7132	1			
EOCENE	P. asperopolus U. M. diversus	7326	2				7326	2			
	L. M. diversus										
	L. balmei	7730	1				7730	1			
PALEO- CENE	T. longus						· ·				
- F	T. lilliei										
US	N. senectus										
LATE CRETACEOUS	C. trip./T.pach.			-			· · · · · · · · · · · · · · · · · · ·				
LI CREJ	<u>C. distocarin</u> .				i						
	<u>T. pannosus</u>										
	<u>C. paradoxa</u>					<u> </u>					
SUC	<u>C. striatus</u>										
EARLY CRETACEOUS	U. <u>C. hughesii</u>										
EL	L. <u>C</u> . <u>hughesii</u>								**************************************		
	<u>C. stylosus</u>										
Pre-	Cretaceous										
COMM	ENTS:Sample fro	om 7326 feet	: is	no younger	than	P. as	peropolus	or o	lder than	Upper	<u> </u>
	<u>M. divers</u>	15.	*******					,	n bir an an an air an		*******
RATI	pollen a 1; SWC or (pollen c 2; SWC or (and/or m 3; CUTTINGS pollen c 4; CUTTINGS micropla : If a sample car Also, if an ent	not be assi ry is given	nkto ONFI kton ONFI n. IDEN kton ENCE gned a 3	n. <u>DENCE</u> , asse <u>DENCE</u> , asse <u>CE</u> , assembl , or both. , assemblag to one par or 4 confi	mbla mbla age e wi ticu denc	ge wit ge wit with z th non- lar zon e ratin	h zone species one species -diagnostic ne, then no	cies nosti s of c spo	of spores c spores, either sp pres, poll	and poll ores en an	.en and d/or
DATE	better confider RECORDED BY: L.	ice rating s	houl	d be entere	d, i	f possi	ible.				
	REVISED BY:	L. JUVER				DA1	re <u>February</u>	y 19/	4		
	·····	1997 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -				DAI				*****	

FORAMINIFERAL BIOSTRATIGRAPHY

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ENVIRONMENTAL ANALYSIS OF

BULLSEYE-1 WELL

GIPPSLAND BASIN

by: David Taylor

September 1, 1974.

FORAMINIFERAL BIOSTRATIGRAPHY AND ENVIRONMENTAL ANALYSIS OF

BULLSEYE -1

by David Taylor 1.9.74

Forty three side wall cores were examined from Bullseys-1. These are listed on page 3 with a summary of biostratigraphic results. Side wall cores at 7075 7049, 7029 and 7000 were barren of foraminifera and those at 6950, 6900, 6860 and 6820 contained rare and nondescript specimens of planktonic foraminifera which did not permit biostratigraphic designation although a lowermost Oligocene and/or uppermost Eocene age is suspected for the interval between 6950 and 6820.

Biostratigraphically and environmentally the Bullseye sequence is very similar with others penetrated on the western margin of the Gippsland Basin both offshore (eg. Perch, Dolphin and the Groper wells) and onshore (eg. the Woodside area trending N.E. to Sale). The sequence is also similar to the generalised Bass Basin sequence although the late Eocene Salt Marsh environment of the Demons Bluff Formation is not developed.

The sequence commences with subdued and inhibited marine influence at 6950 which may be late Eocene or early Oligocene. The dominance of cassidulinids infers poor oxygenation and a pH between 6 & 7. An extensive series of lagoons, analagous to the Gippsland Lakes of today, could be envisaged from the Groper area to Sale butting against the Bassian Rise.

At 6740 a rich planktomic fauna was swept in by the encroaching transgression in early Oligocene times; ie. Zone J-1. The faunas at 6700 & 6650 contain many typically J-1 species including <u>Chiloguembelina cubensis</u>, which is very rare or usually absent in deeper situations in the Gippsland Basin. The high percentages of Bulimimacea amongst the benthonic fauna suggests poor oxygenation at the sediment/water interface and that open marine conditions were not properly established, despite the high percentage of planktonics at the early stage of the transgression. Benthonic specific diversity was initially high, mainly due to the suspension of small, hydrodynamically mobile forms in the "flood". Zone 1-2 is represented at 6550 and 6500 although <u>Guembelitra stavensis</u> was not found. This Zone has only been recognised in this western margin area of the Basin.

This initial marine phase with development of a continental shelf continued to 6450, which is near the base of the late Oligocene Zone I-1. Cassidulinids and shallow water <u>Cibicides</u> spp (ie. <u>C. brevolalis</u>, <u>C. perforatus</u> etc.) dominate.

Shelfal conditions were established properly at the above 6400 (= top of I-1). Fairly low benthonic diversity and dominance of the shallow water <u>Cibicides</u> suggest a medium depth on a gently sloping shelf throughout the early Miocene and late Oligocene from the top of I-1 to F. There is no recognisable break in the sequence. There were some flucuations in depth with obvious shallowing at 6200 (=H-1), 5480 and 5050 (=F), as is evidenced by the sudden appearance of miliolids and species which adhere to sea weed or by the total absence of planktonics. These conditions prevailed into the late Miocene up to 4302 (=base of D-1). Above this level the absence of <u>Cibicides thiara</u> and the presence of adherent forms and miliolids indicate shallower conditions although the planktonic ration and the benthonic diversity is not diminished.

The striking thing about the sediment in the interval between Zone F and Zone D-1 (5050 to 3100) is the absence of bryozoa and the <u>Amphistegina/Operculina</u> foraminiferal suite, which are predominant sediment particles over this interval in the other wells on the western marginal platform. Bullseye must have been situated seaward of the "sand"/mud boundary and also in a nutrient starved region. The planktonic fauna reflects the presence of only a single hydrological layer without a rich "tropical" or New Zealandic" (the Globorotalia miozea plexus) which is abundant in the eastern offshore part of the Basin. For example Zone C is identified on a single specimen of <u>G. miotumida</u>.

Page 3 lists sidewall cores, biostratigraphic zonation and code numbers of samples on pages 4 & 5.

Page 4 shows distribution of planktonic foraminifera. I = over 20 specimens . = 1 - 20 specimens

Page 5 shows distribution of benthonics in groups, planktonic ratio, relative specimen numbers and benthonic diversity.

D = Dominance ie. over 40% of benthonics

X = more than 20 specimens

PLANKTONIC FORAMINIFERAL BIOSTRATIGRAPHY

BULLSEYE - 1

Species distribution on page 4

**	Side wall core				
	code No. on p.4	Depth	Zone	Epoch	Quality
	1	2800	С	Late Miocene	2
	2	2900	С	11 11 .	0
	3	3100	D-1	81 VT	1
	4	3250	D-1	77 77	2
	5	3400	D-1	¥1 11	2
	6	3550	D-1	11 11	0
	7	3672	D-1	11 E2	2
	8	3850	D-1	88 88	1
	9	4000	D-1	97 92	2
	10	4150	D-1	¥7 ¥9	1
	11	4302	D-1	** **	0
	12	4450	D-2	87 87	0
	13	4600	D-2	11 11	1
	14	4775	D-2	** **	2
	15	4900	E-1	27 EI	0
	16	5050	F	Early Miocene	1
	17	5200	G	11 11	0
	18	5480	No pl	lanktonics found	
	19	5640	G	Early Miocene	1
	20	5900	H-1	88 88 88	1
	21	6000	H-1	71 11	1
	22	6100	H-1	91 fr	1
	23	6150	H-1	11 11	1
	24	6200	H-1	88 88	0
	- 25	6250	H-2	Oligocene	1
	.26	6300	H-2	11	1
	27	6350	H-2	11	1
	28	6400	I-1	IT	0
	29	6450	I-1	11	2
	30	6500	I-2	11	1
	31	6550	I-2	11	1
	. 32	6600	J-1	88 88	1
	33	6650	J-1	17	0
	34	6700	J-1	88	0
	35	6740	J-1		2
	36	6820)	indet	terminate planktoni	c fauna
	37	6860)		•	
	38	6900)			
	39	6950)			
	40	7000)			
	41	7029)	no fa	una found	
	42	7049) 7075)			· •
	43	7075)			

** Code numbers are not the original side wall core number as two runs were shot.

BULL side wal	<u>SEYE - 1</u> ll core code	PI	LAN	KT ()	NIC	F0	RAM	INI	FER		BI	OST	rat	IGR	APH	Y	- 8	SPEC	IES	DI	STR	IB		N				а К С			•			•	•		p∙1	ł		*
see page		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	97	28	20 -	7 0	7 1	7 0 7	2 7	1. 7	5 36	74	70	70		
1. Orbul	lina universa 🛛 ,	٠	•	•	٠	I	•	٠	•	•	•	٠		•	-				-,					-		20	-1	20	cy _	<u></u> بر	_ در	ر 2ر	כ כו	14)	סכ כ	57	کر	39	40	
2. Globi	igerina apertura ₀		٥	•	•	I	• .	•	٠	٠		I			I	•	I		I	•	Ι	ľ	I	т	Ť	Ŧ	т													
3. G. w	voodi woodi .	•	٠	٠	•	I	•	•			I	I	•																											
4. G. 1	oulloides	•	•	•	•	•		•									I		-	•	÷	*	*	*		1	T													
5. Globo	orotalia miotumida	•				· .										•	-		•																					
6. G. ma	yeri barisaensis		•			•		٠		٠		•																												
7. G. pe	eriphoacuta					•																																		
8. Globi	gerinoides trilobus									0	•	I	•	•		•	I		•																					
9. G. bi	sphericus										•	I	•	-		•			•																					
10. Globi	gerina woodi connect	ta														·	I			•	I		•	т																
11. Globo	orotalia periphironda	a.				1						•								•	-	•	•	•																
12. G. mi	ocenica					,							0																											
13. Orbul	ina suturalis															•																								
14. Globi	gerinoides glomerost	18	glo	mer	osu	នេ										•																								
15. Globo	rotalia miozea mioze	ea														·	0				?																			
16. Globo	quadrina dehiscens																I		I		•																			
17. G. ad	vena																		•																					
18. G. pr	aedehiscens																		-	•	•	_	•			_														
19. Globi	gerina presbulloides	ļ																		•	Ť	τ	T	т	• т	• I	т	т	Ŧ		-		.	r 4						
20. Globo	rotalia nana																			•	•	-	~	- -	*	*	*	Ŧ	T	-+	I	•	1 1	I I						
21. Globi	gerina euapertura												,								Ŷ			•				T	-	T	-	.								
22. Globo	rotalia opima opima																										4r	T	I	I	I	1	I]	II		?	?	?		
23. G. e:	xtans																											٥		•	•		-	٣	•					
24, Globi	gerina angioporoides	}																												¢					?	•				
25. G. tr:	ilocularis																															I				?	?			
26. Chilog	guembelina cubensis																													•		I				?	?	?		
																				•													,]	L						
14 - C											•																													

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BULLSEYE - 1	•	BEN	THO	NIC	FOF	AMI	NIF	ERA	&	 	ONMI	ENTA	L Al	NAL	YSIS	5															Ρ.	5					•	•	
side wall core code refer page 3	1	2	∷ 3	4	5	6	7	8	9 10	11	12	13	14 :	15 :	16 :	17 1	18 1	92	021	. 22	23	24	25	26	27 3	28	29	30	31	32	33	34	35	36	37	38	39	-	
shallow water Cibicides s	pp 1	D D	D	D	D	Ď	D	D	DI	D		D		x	D	D		x :	х х	x	x	x	D	D	D	D	D	D	х	D	D	х	x	X	٠				
adHerant Cibicides & Karreria		хх												:	x							х				x					•	•		•			•		
Miliolids			х												х							X																	
Cassidulina subglobosa & Sphaeroidina bulloides				X	Х	X	X			x	D		D	х	X	X	D	D :	ХХ	X	х	X	Χ.	x		x	D	D	х	D	D	2	хx	x	D	D	D		
Cibicides thiara										x		Х	х	Х	х		X	x :	х х	X	Х	Х																	
"Bolivina"spp.																							х	X					Х	٠	٠	2	K,						
Siphouvigerina sp Arenaceous species																											х •		x	•	•								
Anglogenerina spp. & Trifa	ari	na	sp.																								•		•	¢	•		••• x•						
Nodosarids			-																										•	49	•	1	X						
Bolivinopsis cubensis																													•	٠						ø	•		
% of planktonics in total foraminiferal fauna	5	1	5 1(0 20) 20) 20	20	20	2 0 2	20 2	020) 10	5 2	20 :	5 2	20 () 2	03	0 30	40	50	50	40	30	20 1	15	10	10	20	30	20								
relative specimen count	10		1(00	00 20	20)0	00 50	10 0	0 100	100) 1	20 .00	00 50		0 1 100			500 5	5 50	00 51	50 20		700 0 1		.000 1		500 5	500	50 0	1 100			100) 2		500)		50	20	20		
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ENVIRONMENT	I	NNE:	R SH	IELF	p					M	ID	SH	ELF					MID	SHE	LF	ange-16-11-19-1-1						TRA SHE POO	LF]	DEV	ELO	PME	NT		ESI	OON UAR	INE			
DEPTH	•									430	2 445	50														6	450						(6820)		7	000	
ZONE		D -	1					•••			D-	- 2		B]	г (}	G	H	1	H-	-1	H22			[-1	I	-2		J-1	L	J-	-1		?	?		N.F.F.	
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BASI	NGIPPSLAND		ВҮ		David Taylo	Fo	rm R 193 3/7
WELL	NAME <u>Bullseye-</u> 1	2	DAT	ſE	1.9.74	ELEV.	
Fora	m Zonules					•	
s •		Highest Data	Quality.	2 Way Time	Lowest Data	Quality	2 Way Time
	A Alternate						
		<u></u>		-			<u> </u>
	B Alternate			1			
	C	2800	2		2900	0	
	Alternate			 			
	D ₁ <u>Alternate</u>	3100	1		4302	0]
		4450	0		4775	2	
	D ₂ Alternate		1.0	<u> </u>	4600		
	P	4900**	0		4900**	0	
E.	^L Alternate						
MIOCENE	F	505 0	1		5050	1	
l S	r Alternate	5200	0	 	5640	1	
E E	G Alternate	J200					
		590 0	1	┠╍╍┱╂	6200	0	
	H ₁ Alternate				0200		
		6250	1		6350	1	
· ·	H2 Alternate						
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1 ·	I ₁ Alternate	6500			(550		
E	I ₂ Alternate	6500	-1	┢╼╍╍╍╂╢	6550	1	
OLIGOCENE	1	6600	$\frac{1}{1}$	├	6740	2	
8	J ₁ Alternate	6650			6700		
							
	J _{2 Alternate}			Ì			
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ů.	Alternate						

** S.W.C. at 4900 contains late E fauna = E-1

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COMMENTS: S.W.C.s 6820, 6860, 6900 and 6950 contained indeterminate planktonic faunas of late Eocene or early Oligocene aspect. No fauna was found in S.W.C.s at 7000, 7029, 7049 & 7075.

Note: If highest or lowest data is a 3 or 4, then an alternate 0, 1, 2 highest or lowest data will be filled in if control is available.

If a sample cannot be interpreted to be one zonule, as apart from the other, no entry should be made.

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	-	Complette assemblage (low confidence).
4		-	Incomplete assemblage, next to uninterpretable or SWC with
			depth suspicion (very low confidence).

Date Revised _____

By _

WELL COMPLETION REPORT

-3,*

1 6. C.

BULLSEYE-I

PALYNOLOGICAL REPORT

by L.E. Stover

PALYNOLOGICAL DETERMINATIONS FOR BULLSEYE-1, GIPPSLAND BASIN, AUSTRALIA

by

Lewis E. Stover

SUMMARY

(Depth (in feet)	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 .

SMC	Depth	Zone	Age	<u>Rtg</u> .
23 21 20 19 17 16 15 13 11 8 6 5 4 2	6700' 6820' 6900' 6950' 7000' 7029' 7049' 7132' 7326' 7458' 7546' 7596' 7596' 7650' 7703' 7730'	Upper N. asperus or your n n n n n n n n n n n n n n n n n n n	nger Late Eocene or Oligocene """ Middle to Late Eocene """""" Niddle Eocene """" Early Eocene	2 1 0 0 1 1 1 2*
			v	-

*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. asparus, P. asparopolus 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 COMPLETION REPORT

1.

BULLSEYE-1

FORMATION TEST RESULTS

This is an enclosure indicator page. The enclosure PE902321 is enclosed within the container PE902320 at this location in this document.

The enclosure PE902321 has the following characteristics: ITEM_BARCODE = PE902321 CONTAINER_BARCODE = PE902320 NAME = Formation Tester Recovery Data BASIN = GIPPSLAND PERMIT = TYPE = WELL· SUBTYPE = FIT DESCRIPTION = Formation Tester Recovery Data (enclosure from WCR) for Bullseye-1 REMARKS = DATE_CREATED = DATE_RECEIVED = $W_NO = W677$ WELL_NAME = Bullseye-1 CONTRACTOR = ESSOCLIENT_OP_CO = ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

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This is an enclosure indicator page. The enclosure PE902323 is enclosed within the container PE902320 at this location in this document.

The enclosure PE90	2323 has the following characteristics:
ITEM_BARCODE =	PE902323
CONTAINER_BARCODE =	PE902320
NAME =	Bullseye Prospect Structure Map Top of
	Latrobe
BASIN =	GIPPSLAND
PERMIT =	
TYPE =	SEISMIC
SUBTYPE =	STRUCTURE_MAP
DESCRIPTION =	Bullseye Prospect Structure Map Top of
	Latrobe (enclosure from WCR) for
	Bullseye-1
REMARKS =	
DATE CREATED =	28/04/1974
DATE RECEIVED =	
W_NO =	W677
WELL_NAME =	Bullseye-1
CONTRACTOR =	ESSO
CLIENT OP CO =	ESSO
$CLIENT_OP_CO =$	ESSO

This is an enclosure indicator page. The enclosure PE601439 is enclosed within the container PE902320 at this location in this document.

The enclosure PE601439 has the following characteristics: ITEM_BARCODE = PE601439 CONTAINER_BARCODE = PE902320 NAME = Well Completion Log BASIN = GIPPSLAND PERMIT = TYPE = WELLSUBTYPE = COMPOSITE_LOG DESCRIPTION = Well Completion Log (enclosure from WCR) for Bullseye-1 REMARKS = $DATE_CREATED = 28/02/1974$ DATE_RECEIVED = $W_{NO} = W677$ WELL_NAME = Bullseye-1 CONTRACTOR = ESSOCLIENT_OP_CO = ESSO

This is an enclosure indicator page. The enclosure PE601440 is enclosed within the container PE902320 at this location in this document.

The enclosure PE601440 has the following characteristics: ITEM_BARCODE = PE601440 CONTAINER_BARCODE = PE902320 NAME = Baroid ppm Log (Mud Log) BASIN = GIPPSLAND PERMIT = TYPE = WELLSUBTYPE = MUD_LOG DESCRIPTION = Baroid ppm Mud Log (enclosure from WCR) for Bullseye-1 REMARKS = DATE_CREATED = 04/12/1973DATE_RECEIVED = $W_NO = W677$ WELL_NAME = Bullseye-1 CONTRACTOR = BAROID CLIENT_OP_CO = ESSO

This is an enclosure indicator page. The enclosure PE902322 is enclosed within the container PE902320 at this location in this document.

The enclosure PE902322 has the following characteristics: ITEM_BARCODE = PE902322 CONTAINER_BARCODE = PE902320 NAME = Time Depth Curve BASIN = GIPPSLAND PERMIT = TYPE = WELLSUBTYPE = VELOCITY_CHART DESCRIPTION = Time Depth Curve (enclosure from WCR) for Bullseye-1 REMARKS = $DATE_CREATED = 04/12/1973$ DATE_RECEIVED = $W_NO = W677$ WELL_NAME = Bullseye-1 CONTRACTOR = ESSOCLIENT_OP_CO = ESSO