

WELL SUMMARY PIKE-1 W671

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29.050 46 38 UNSUCCESSFUL N.F.W.C. SPUD. 16-7-73. 19-7° 57' 00 126 6 COMP. 25-7-73 W.D. 242 . KB.32 T.D 7000'. PIKE - 1. ESSO VIL /P2 671 GLOMAR CONCEP |SF/S Run 245 2744-6967+ TRANSFARENCY 2744 GR/CAL - 6973+ TRANSFARENCY 5800 FDC - 6973 + TRANSFARENCY FDC/CNL/GR "1. "". ·· [. 10". 5400 -6972 + TRANSMARENCY. HDT DIPLOG INTERPRETATION. 2. 5900 - 6972 + " 5 " TRANSMALLYSY, 854 - 7000 + TRANSPARENCY BARIOD MUD LOG. "d" EXPONENT 4500 - 7000 + " (ŝ) A.D.T. CORE / OFF. " DESCRIPTION. Nº1. 6018-27. CUTTING ", 582-7000'. Swic. that 30 Rec 29. 11 DESCRIPTIONS 1-30. 3350-6836 COMPLETION REPORT CORE ANALYSIS RESULTS BY B.M.R. TIME DEPTH CURVE. * PALYNOLOGY SHEET BY W.K. HAARIS WELL COMPLETION LUG. SEISMIC SECTION G71B 546. . ETG6.7/A. PALAEONTOLOGICAL DATA SUMMARY by D. TAYLOR. PALNOLOGIC REPORT by L STOVER, STRUCTURAL MAP. TOP OF LATROBE GROUP. it is a . CROSS SECTION A -A' le ci ci ci C.R. ٤, .. B - B' ι, <u>ι</u> K BASE OF LOWER WEDGE (MID M DIVERSUS) ". TOP OF ANOMALOUS ZONE. " . BASE OF UPPER SAND FACIES. 41 ISOPACH OF L'PPER SAND FACIES. RESIDUAL STRUCTURE MAP. TOP OF ANOMALOUS ZONE. PALYNOLOGY REPORT BY A.D. PARTRIDGE. WEEKLY REPORTS. WELL COMPLETION LOG. 2744'-6967'. 2" SEALE .+ TENNIS AUST. MOUSTS THE SERVICE PROCESSES IN

ESSO AUSTRALIA LTD.

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WELL COMPLETION REPORT

PIKE-1

J. Èlack

October, 1973.

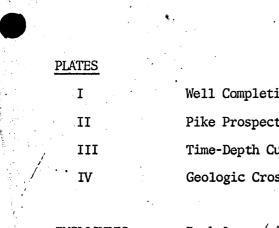
PIKE-1 WELL COMPLETION REPORT

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SECTION		
I		Well Data Record
II		Not Applicable
III		Not Applicable
īV		Casing Record
V		Cement Record
VI		Not Applicable
VII	•	Samples, Conventional Cores, CST Record
VIII		Wireline Logs, Surveys & F.I.T. Record
IX		Formation/Zone Tops
X		Geologic Analysis
	•	Geological Interpretation Other Reports
	* .	Other Reports

ATTACHMENTS

Sample Descriptions Core Description Sidewall Core Descriptions Palaeontologic Data Summary - D.J. Taylor Palynologic Report - L. Stover



Well Completion Log Pike Prospect Top of Latrobe Structure Map (Post Drill) -Time-Depth Curve Geologic Cross Section A-A'

ENCLOSURES

Rock Log (MUD WOG)

A.D.T. LOG (NEWTRON DENSITY AND SOMICIISF LOCS)

ESSO STANDARD OIL (AUSTRALIA) LTD.

COMPLETION REPORT



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Date 10.10.73

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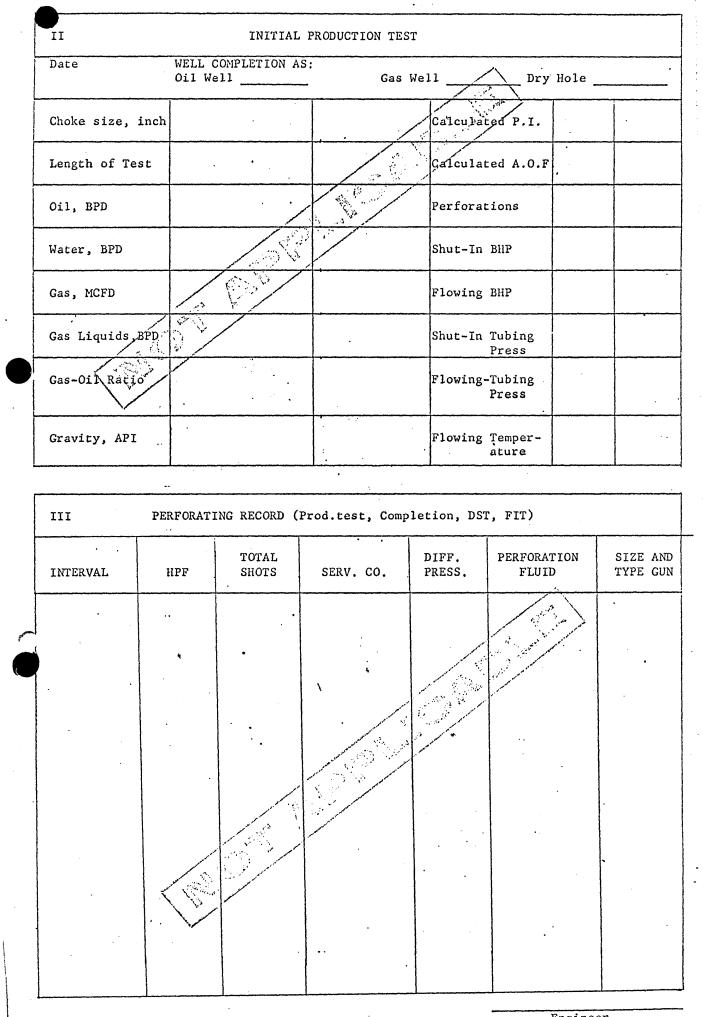
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LOCATION

WELL NAME	STATE	PERMIT or L	ICENCE	GEOLOGICAL	BASIN FIELD
PIKE 1	VIC.	VIC/P	.2	GIPPSLA	ND
CO-ORDINATES Latitude: 38 ^{0,46} Longitude: 147 ⁰ 57	5' 29.054"S 7' 00.726"E	X 582,541E Y 5,707,77	MAP PROJEC 7N AMG-A ZONE	GD 10 mile	TION s NW MORAY-1
	•	ELEVATI	ONS & DEPTHS	<u>s</u>	
ELEVATIONS	WATER D	EPTH	TOTAL 1	DEPTH	Avg.Angle
KB 32'	2	42	M.D. T.V.D.	7000'	STRAIGHT HOLE
RT 31'	PLUG BA	CK DEPTH	REASON	S FOR P.B.	
Braden Head Top Deck Platform	4	.04 '		ABANDONED HOL	E
		D.	ATES		• • • • • •
MOVE IN	RI	G UP		SPUDDED	
14.7.73		15.7.73		16.7.73	5
RIG DOWN COMPLETE	RI	G RELEASED		PROD.UNIT -	Start Rigging Up
25.7.73		25.7.73		-	
PROD.UNIT - Rig Do	wn Complete		I.P. ESTAL	BLISHED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
-					
		MISC	ELLANEOUS		
OPERATOR ESSO AUSTRALIA LTD	Here	EE or LICENCEE Inte ferroluum B.H.P.	Royles	INTEREST	OTHER INTEREST
CONTRACTOR		IG NAME	<u> </u>	EQUIPMENT T	
GLOBAL MARINE A/AS	IA .	GLOMAR CONCEPTI	ON	FLOATING	
TOTAL RIG DAYS	DRILLING A	FE NO.	DAPLETION NO	D. TYPI	E COMPLETION
10.89	•	011			
LAHEE WELL	Befo	re Drilling	NEW FIEL	D WILDCAT	

J.R. BLACK Geologist

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Engineer

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IV		CADI.		- TUBING REC			
Type	Siza	Weight	Grade	Thread	. No. Joints	Amount	Depth
Conductor	Diductor KB ELEVATION ABOVE CASING HEAD					265.00 30.55	265.00
	20"	91,5#	X-52	JV	10 + FLOAT SHOE	366.85	622.40
Surface	KB ELEVA	TION ABOVE HA	NGER			270.00	270.00
•	10-3/4"	40.5#	J-55	BUTT	60 + FLOAT SHOE & FLOAT COLLAR	2473.08	2473.08
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V	CEMENT RECORE)
String	20" CONDUCTOR	10-3/4 SURFACE CASING
lype of Cement	1100 SX AUSTN + 350 SX AUSTN + 2% CaCl ₂	450 SX AUSTN
Number of FT ³	1711	531
Average weight of slurry	15.6 ppg	15.6 ppg
Cement Top	Sea Floor	1500' est.
Casing Tested with	500 psi	1500 psi
Number of Centralizers	6	10
Number of Scratchers	-	-
Stage Collar etc.	-	
Remarks	•	TESTED FORMATION. HELD AT 13.3 ppg equiv.

Engineer

WELL PIKE 1

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Schematic		Equipment Description	Length	Depth
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NELL

PIKE 1

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VII U		SAMPLES, CONVENTI	ONAL CORES, SW C	ORES		
INTERVAL	TYPE	RECOVERED	INTERVAL	TYPE	RECO	VERED
1. <u>DITCH</u> 870-5860' 5860-6160' 6160-6700' 6700-7000' 870-70000'	WASH & DR """ "" TINNED	Y 30' SPACING 10' " 20' " 10' " 100' "				
2. <u>CORE #1</u> 6018-6033'	CONVENTIO	NAL 9' (60%)				•
(ADJ. UP 9' TO FIT LOG) 3. <u>SCHLUMBERG</u>						
3350-6936'	SIDEWALL CORES	29 of 30				
			•			
VIII		WIRELINE LOGS AND	SURVEYS (Incl. FI	T)	l	
Type & Scale		From To	Туре &	Scale	From	To
ISF/SONIC 2" & FDC/CNL/GR 2" HDT VELOCITY SURVE (7 LEVELS) CST RECOV. 29	& 5" Y	6967 2744' 6974 5800'FDC 6957 2744'GR 6972 5900' 6930 2854' 6936 3350'	/cxL			
	9	· •	•		•	

J.R. BLACK Geologist

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	Top	S	Gross	Net	Pay (ft).	REMARKS	
NAME	M.D.	Sub-sea	Interval (ft)	Gas	0i1	KLMARKS	
. GIPPSLAND	SEA FLOOR	-242!	4039'	•			
. LAKES ENTRANCE	4313'	-4281'	1685'	•			
. MID MIOCENE SEISMIC MARKER	4781'	-4749'					
. OLIGOCENE SEISMIC MARKER .	5287'	-5255'					
• TOP LATROBE (COARSE CLASTICS)	5998'	-5966'	1002'				
. LATE EOCENE .	5998' ⁶ \$447'	-5966' -6415'	449' 217'				
. PALEOCENE	6664'	-6632"	336'				
9. T.D.	7000'	-6968'	· .				
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GEOLOGIC ANALYSIS (Pre Drilling prognosis Vs actual results)

PREDRILL

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The Pike prospect was interpreted to be a stratigraphically controlled trap within Latrobe Group sediments of Eocene age. Changes in frequency and amplitude characteristics within two stacked sedimentary wedges were interpreted to indicate a facies change to sandstones within a shale sequence. A nearshore offshore-bar depositional environment was proposed for these sandstones. The critical updip and lateral seals for these reservoirs would be provided by the impermeable sediments of offshore and paralic facies. A top seal would be provided by the calcareous shales and marls of the Gurnard and Lakes Entrance Formations.

POSTDRILL

Pike-1 penetrated a Latrobe section which was found to be sandier than expected in the roposed depositional environment. The absence of significant hydrocarbons is considered due to the lack of an updip and/or lateral seal in the southwest part of the prospect. This seal was critical for hydrocarbon accumulation as no structural closure is present.

The sand, rather than having been deposited as an offshore-bar in a nearshore environment as previously interpreted, appears to have been deposited in a beach/shoreface situation. This is borne out by its well rounded, well sorted nature together with the lack of shaley or silty laminae.

Updip communication with other sand bodies is highly likely in such a case and explains the lack of hydrocarbons.

Initially, two sand wedges were anticipated but drilling results show that only the higher sand is present.

Conflict exists between seismic correlations in the area and palaeontologic evidence. The thick target sand is unfossi-liferous and the samples at 6647' and 6623' are from the Upper <u>M.diversus</u> zone (Early Eocene) whereas the mid <u>M.diversus</u> seismic marker is picked at the base of the sand, suggesting that the section below it is Lower <u>M.diversus</u> in age. Further work is needed to resolve this problem.

J.R. BLACK

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20" Conductor set at 662'. Drilled out and twisted off bumper sub. at 882'. Top of fish inside casing. Washed down with washover pipe. Recovered fish with overshot. Drilled 13-3/4" hole to run 10-3/4" casing. 882-1200 100 Mostly shell fragments (coguina) and light grey dense

		%	
	882-1200	100	Mostly shell fragments (coquina) and light grey dense to crystaline limestone, some silty.
	1200-1290	100	As above with some very sandy limestone, trace shells
	1290-1375	100	Limestone. Very sandy. Friable, soft, trace shell fragments.
	1375-1500	100	Marl – light grey, very soft, silty.
	1500-1770	100	Marl – light grey, very calcareous, soft, argillaceous, but not silty.
	1700-2100	100	Marl - light grey, very soft, calcareous, argillaceous.
	2190-2250	100	Marl - as above
ſ	2250-2510	100	Limestone - grey, crystaline, silty, dirty, firm, trace fossils.
	2510-2800	100	Marl - light grey, very soft, calcareous, argillaceous.
	July 20 - Set a	and cement	ed 10-3/4" casing at 2743'. Drilled out with 9-7/8" XDG
	2800-2820		Cement cavings
	2820-2850	60 40	Cement cavings Marl - light grey, soft
	2850-2880	60 40	Cement cavings Marl
	2880-2910 '	40 60	Cement cavings Marl
	2910-2940	30 70	Cement Cavings Marl
	2940-3000	100	Marl – light grey, very soft, argillaceous, sticky
	3000-3270	100	Marl - light grey, firmer than above, sandy in places.
	3270-3450	100	Mudstone, light grey, sticky, argillaceous
	3450-3660	100	Mudstone as above, very soft, sticky with trace sand grains
	3660-4020	100	Mudstone, as above, very calcareous with increasing number of fossils (forams)
	4020-4110	100	Mudstone - as above
	4110-4380	100	Mudstone – light grey, very calcareous, sticky, fossiliferous, argillaceous
	4380-4530	100	Mudstone - as above
	4530-4590 P.O. to CB at 4574'	100	Mudstone as above
	4590≈ 4680	100	Shale - medium grey, firm, calcareous, blocky fracture, fissile, trace glauconite, trace light grey hard limestone, trace pyrite, trace fossils.

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	4680-4740	% 100	Mudstone – light grey, argillaceous, very sticky, plastic, very calcareous
•	4740-5100	100	Shale - medium grey, firm to moderately firm, fissile, calcareous, very fossiliferous (small forams), trace glauconite, trace pyrite.
	5100-5160	100	Shale - as above
	CB at 5195' (Lost Pump Pre	ess)	Trip gas 65 units
	5160-5350	100	Shale - medium, grey, slightly silty, trace glauconite, calcareous, trace light brown, soft, siltstone.
	5350-5470	100	Shale - light grey, very silty, moderately firm, very fossiliferous (small forams), trace pyrite
	5470-5530	100	Shale - as above but firmer with trace glauconite
	5530-5680	100	Shale - grey and green grey, firm,trace tan dolomite
· ·	5680-5710	100	Shale – grey and green grey, very silty, very fossiliferous, firm, fissile, some splintery fracture.
	5710-5830	100	Shale - light brown and grey, firm, fissile, slightly silty
	5830-5910	90 10	Shale – as above Siltstone – light brown, moderately hard to friable, trace glauconite, trace pyrite
	5910-5940	100	Shale
	5940-5970	90 10	Shale – very fossiliferous Siltstone as above, trace glauconite, trace pyrite
	5970-5980	80 20	Shale Siltstone
	5980-5990	70 30	Shale Siltstone, slight increase in glauconite.
\sim	5990-6000	20 80	Shale Siltstone - brown, moderately firm to friable, <u>very</u> <u>glauconitic</u> .
	6000-6005	80 20	Siltstone Shale
	Drilling brea 6009' Top Latrobe		211416
	6005-6010	80	Siltstone – increase in glauconite, trace reworked quartz, Latrobe sandstone.
	6010-6018 Top Latrobe 6009/	90 10	Sandstone – frosty white, well rounded, unconsolidated, coarse grained quartz, well sorted, trace pyrite. <u>No</u> <u>show</u> . Shale
	Core bbl Core # 1		Core # 1 6018-6033. Cut 15' Recov. 9' Sandstone - as above
	6033-6040	20 80	Sand as above Shale as above (cavings)
	6040-6340	100	Sandstone - frosty white, well rounded, unconsolidated, well rounded, very coarse to coarse grained quartz, well sorted, excellent porosity and permeability, rare pinkish white quartz grains, rare pieces of shell fragments.

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(40-6440	100	Sandstone - frosty white with few pink quartz grains, unconsolidated coarse to very coarse subangular to well rounded, excellent porosity and permeability, trace pyrite.
	6440-6460	100	Sandstone – as above, but medium to very coarse, rounded to subrounded with abundant pyrite.
	6460-6480 <u>M. DIV</u> . <u>TOP</u>	100	Sandstone - as above with 10% brown red iron stained angular quartz grains, unconsolidated coarse quartz, unconformity? TOP M. DIVERSUS.
	6480-6500	100	Sandstone – mostly bright red and yellow iron stained coarse subangular to angular quartz. Weathered. 20% coarse frosty white rounded quartz as above, abundant pyrite, trace glauconite.
	6500-6520	100	Sandstone - as above. 90% Iron stained 10% white, very pyritic.
	6520-6540	100	Sandstone - as above. 90% Iron stained red and yellow.
-	6540-6560	90	Sandstone - yellow iron staining, fine to very coarse, subangular to subrounded quartz, poorly sorted, good porosity and permeability.
		10	Siltstone - green, glauconitic, friable, sandy.
	6560-6580	90 10	Sandstone – abundant free glauconite Siltstone – very glauconitic
	6580-6600	90	Sandstone - mostly white (frosty & clear white), with some yellow stained quartz
		10	Siltstone
	6600-6620	90 10	Sandstone, fine to very coarse white quartz, very little Iron staining , free glauconite and pyrite. Siltstone
	6620-6640	90	Sandstone, clear and frosty white, medium to very coarse, unconsolidated, subangular to subrounded, pyritic with
		10	trace glauconite, trace <u>detrital coal</u> . Siltstone
\mathbb{O}	6640-6650	70 30	Sandstone with pyrite Coal
	6650-6660	60 40	Sandstone as above with pyrite. Shale - brown and grey, slightly carbonaceous, silty
	6660-6680	100	Sandstone, white with some yellow stained quartz, some carbon ? stain.
	6680-6700	90 10	Sandstone - white, coarse to very coarse, unconsolidated. Shale
	6700-6710	70	Sandstone, white, medium to very coarse, trace glauconite, abundant pyrite.
		30	Shale - tan and grey, slightly silty
	6710-6720	80 20	Sandstone - white, medium to very coarse, unconsolidated. Shale - grey and tan, some carbonaceous.
	6720-6730	90 10	Sandstone Shale
	6730-6740	100	Sandstone - white, clear and frosty, medium to coarse, unconsolidated, subrounded to subangular, abundant pyrite and free glauconite.

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(740-6750	% 100	Sandstone - white, coarse to very coarse with pyrite and glauconite.	
	6750-6760	80 20	Sandstone as above with pyrite and glauconite. Shale - brown and grey, slightly carbonaceous, silty.	
	6760-6770	60 40	Sandstone – as above, with pyrite and trace glauconite Shale – as above with trace coal	
	6770-6780	40 60	Sandstone – as above with pyrite and glauconite. Shale – mostly brown silty carbonaceous, with some grey.	
	6780-6790	70 20 , 10	Sandstone as above Shale as above Coal as above	
	6790-6800	90 10	Sandstone – as above but medium to very coarse, trace pyrite and glauconite Shale	
	6800-6820	100	Sandstone with trace coal	
	6820-6830	100	Sandstone – frosty white, subangular to subrounded, coarse to very coarse, unconsolidated quartz, trace pyrite.	
	6830-6840	100	Sandstone as above	
	6840-6850	100	Sandstone as above	
	6850-6870	100	Sandstone as above	
	6870-6880	70 30	Sandstone Siltstone - brownish grey, friable, sandy, slightly glauconitic	•
	6880-6900	90 10	Sandstone, white, coarse to very coarse, subangular to rounded, unconsolidated quartz. Siltstone	
	6900-6910	90 10	Sandstone Shale – grey,trace glauconite, slightly calcareous, silty in places.	
	6910-6920	90 10	Sandstone, white, coarse to very coarse, trace pyrite, unconsolidated quartz. Shale - grey, slightly calcareous, firm.	• •
27 ¥	6920-6930	100	Sandstone as above	
	6930-6940	60 40	Sandstone as above Shale - light brown, carbonačeous, fissile, moderately firm.	
	6940-6950	50 50	Sandstone as above Shale as above	•
	6950-6960	100	Sandstone – white, frosty, coarse to very coarse, unconsolidated, subangular to subrounded, quartz – pyritic.	
	6960-6970	100	Sandstone - as above but coarse to pebbly.	. .
	6970-6980	100	Sandstone as above	
. *	6980-6990	100	Sandstone as above, but chunking size pebbles.	
	6990-7000	100	Sandstone as above	

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CORE DESCRIPTION

Core No. 1

WELL: PIKE #1

 Interval Cored 6018-6033 ft., Cut
 15
 ft., Recovered
 9
 ft., (.60.%) Fm. LATROBE

 Bit Type
 C-22
 FD
 , Bit Size
 8¹⁵/32 × 4
 in., Desc. by
 J. BLACK
 Date 22 July 1973

20	(min./ft.)			
20-				6018-27' SANDSTONE - FROSTY WHITE, WELL RND.,
20-		· · · · · · ·		WELL SORTED, UNCONSOL, CRSE/V.CRSE
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RE	MARKS:		·····.	
				ACTUAL RECOV. WAS 100% BUT 40% WASHED
				PAPPED FLUID ABOVE CORE ESCAPED AS UPPER
-	<i>P_</i>	ART_OF	CORE	WAS REMOVED EROM Bbl.

GEO		IIST		J.	BL	<u>CK</u>	•••••••		•	16	SI	DEW	ALL (CORE	E DE	LIA scrii	PTIO	NS	1 NO		1	A		•••••			.REC	2	.9
26 5010 1	25 5290 13	24 5450 13	23 5590 1	22 5690 1-3	21 5760 1-3	20 5800 13	19 5830 -1	18 5860 1	17 5890 12	16 5920 13	15 5936 13	14 5960 13	13 5982 1	12 5994 12	11 5998 }	10 6058 115	9 6456 3/4	8 6482 3/4	7 6507 3/4		6 6623 3/4		5 6647 3/4	4 6751 3/4	3 6773 3/4	2 6927 REC	1 6936 1"	1 a 1 2	
S1r	Slt	S1t	Slt]	/8_S1t	/8 S1t	Slt	18 SIt		slt.	Sh.	Sh.	Sltst.	Sltst.	Sltst.	Sh	SS	Ss.	Ss.	Ss.	a	Ss.		Sh.	Sltst	Sh	OVERY	Ss		ROCK
	Foss?		Tr Pyr,Sd		Arg.	Arg.		Slty	Foss.	Arg.F.mica.		Arg.	Sli.lam.	V.glauc.	Foss.		Slty,glauc?	Slty,Arg.	Slty,Arg.	icac.	Slty, drty, pyr	. micac.	Slty,Horz La	Sdy,sli.carb	.Slty,f.mica	(NONE)	Qtz,carb,slt	4	MODIFIERS
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PIKE-1

PALAEONTOLOGIC DATA SUMMARY

D.J. Taylor

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September, 1973

BASIN _	GIPPSLAND	BY	David T	aylor
WELL NA	MEPIKE-1	DATE _	1/9/73	ELEV

Form R 193 3/71

Foram	Zonules

		onures	Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
	A	Alternate						
	В	Alternate						
	с	Alternate						
	D ₁	Alternate	3350	. 0		4310	1	
		Alternate	4710	0	· · ·	4710	0	
	E		5010 *	0		· 5010		
ENE	F	Alternate	5290	1		5450	0	
MIOCENE	 G	Alternate	5590	1		5690	1	
		Alternate	5830	1				
		Alternate	5890	0		5936 + .	1	
	^H 2	Alternate						
	<u>1</u>	Alternate						
ENE	1 ₂	Alternate			· · ·			
OLIGOCENE	J_1	Alternate						
OL:		Alternate		·•				
EOC.	к	Alternate						
EO	Pre	e K						

* 5010' = Top E = E-1

+	SWC at 5998 contained a H-1 (0) fauna but on preservation
	was probably misplaced (mislabelled or misshot) and probably came above 5960'. It is noted that SWC 5994'
	was a "greensand" and one would expect it would come at base of marine sequence. Zonation was impossible on
COMMENTS:	SWC 5994, 5982, 5960.

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.

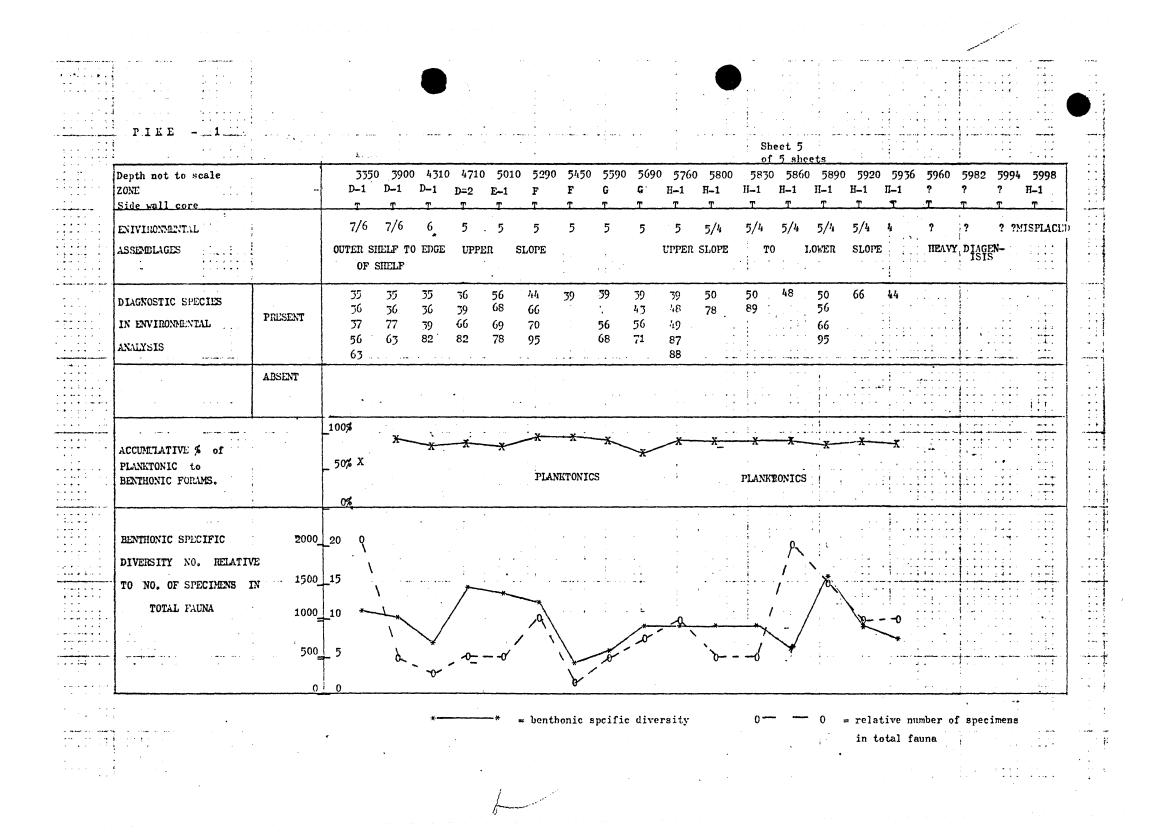
If a sample cannot be interpreted to be one zonule, as apart from the other, \underline{no} entry should be made.

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

Date Revised _____

Ву _____

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•	91. Gaudyrina heywoodens	BÍS			• •			•	•••		•	:	'	, ,				•				
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	95. Valvulina granulosa	· · · · · ·	• • • • •	• • •	•••		•	•	: •		• •	t.	· : · · .	. I	1	r	ini ya sini Dina ang		••••	1 · · · ·	- 	1
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LITHOLOGICAL DESCRIPTION of SIDEMALL CORES

from PIKE-1

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by David Taylor.....24-8-73

<u>One page</u>

idewall ore No.	Depth	Description o	f untrea	ted core	2	Descr	ption c	of residue	<u>}</u>			
30 29	3350 3900	medium grey m medium grey m		limestor	ie				disseminated + foraminife		some f.	grained calc:
28	4310	8 6	11	n	🔹 ang. qtz.	n	11		*	+ rare	c. ang	. qtz.
27	4710	n 11	11	n		87	11	11	11	81	ม่	n
26	5010	brown/grey	2	ŧ		*1	81	**	**			
25	5290	11 11	Bt .	11		**	11	=	11	+ disser	inated ·	pyrite
24	5450	17 11	*1	11			81	#1	\$1			
23	5590	light grey	11	41		\$1	Ħ	41	**	51	11	11
22	5690	medium grey	11	ti		11	**	11	. 11	**	"	" + rare ang, qtz,
21	5760	NT DE	81	"		11	RI.	67	. 11			-
20.	5800	99 BF	**	۳.	⊢ calcite viens	*1	11	**	` 11			•
19	5830	brown/grey	11	ti -		11	11	11	11	**	11	**
		11 11	••			NOT	E DIAGI	ENETIC EFI	FECTS ON FOR	MINIFERA	AT & B	ELON 5830
18	5860	M 11	11	11		11	61	11	. 11	**	ŧ	" + Fare glauconite
17	5890	n - n	n	**		11	n	11	11	11	11	11 11 11
16	5920	light grey	**			n	n	11	11	19	17	11
15	5936	11 H	11	11		11	**	t1	**	PI.		11
14	5960	11 11	41			calc	ite rhe	ombs + dia	storted fora	ninifera -	+ dissem	inated
	<i></i>					pvri	te + m	vrite sph	eres + rare :	f. ang. g	tz.	
13	5982	Light brown/g	grey"	11		calc	ite rhe	ombs - al	l foraminife nated pyrite			extreme
*12	5994	11 11	" sands	tone		abun		m. ang.		t glaucon	ite. Nar	e rounded qtz
*11	5998	medium grey n	nicritic	limesto	ne				e + rare an	g. qtz.		
9	6456	brown silty o	luartz sa	ndstone					some sub-rou & sub-conco			range stained
NOTE												

** Sidewall cores 12 & 11 are probably misplaced (? mislabelled) as one would expect the qtz. glauconite sandstone (ie. "greensand") to be below the limestone. In fact foraminifera content of sidewall core 11 suggests that it may have come from above 5960.

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	70. Siphouvigerina plebja		1	•	,	•	•							•		••••	· · · ·	••••	•	:
	71. Globobulimina pacifica				: :		⊥									1	• • • •	• • • • • •	• • •	
• .	72. Bulimina marginata	- • • • •			· · · · ·			• • •	• • •	• • • •								* 1 ***		يون ۽ سوسين ۽
	73. Bolivina anustomosa			• • • •	• • •			• •	•		•						· · ·			•
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•••••	74. Lagena spp.	· · I	I		Ī	•	I	I		T	· ·				i a arrier transformations	; · ·	• • • • •	• • • •		-
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	76. Nodosaria spp.	•	: :			I	1 4 4 4 1	• •			I				T T			· · · · ·		• • • • • • • • • • • • • • • • • • •
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	81. Ceratobulinina sp.			•••										• •	•••	1 • • •	·	• • • • • •		
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• • •	83. Ammodiscus sp (coarse)				•		· · · · · · · · · · · · · · · · · · ·					•	· · · · · · · · · · · · · · · · · · ·	• • • • • •	•	-	*** *** ******************************	1		
	84. Ammoshhearoidina sp.		1		•	•				I			-		• •		• • • •		• •••••••	
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	86. Haplophragmoides sp.						•	•						•••	•••		· · · · ·			++ T * :
	87. Discammina compressa						• · ·												;	1
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PIKE-1

PALYNOLOGIC REPORT

L. Stover

PALYNOLOGICAL DETERMINATIONS FOR PIKE-1, GIPPSLAND BASIN, AUSTRALIA

Lewis E. Stover

SUMMARY

Paleogene spore-pollen zone assignments for assemblages recovered from sidewall cores from Pike-1 are tabulated below.

SWC & DEPTH	ZONE	AGE
12 - 5994'	Proteacidites tuberculatus	Oligocene
9 - 6456'	Indeterminate (practically barren)	
7 - 6507'	Indeterminate (barren)	
6 - 6623'	Upper M. diversus	Early Eocene
5 - 6647'	Upper M. diversus	Early Eocene
4 - 6751'	Lygistepollenites balmei	Paleocene
3 - 6773'	Lygistepollenites balmei	Paleocene
1 - 6936'	Lygistepollenites balmei	Paleocene

DISCUSSION

Assemblage from sidewall core 12 at 5994 feet

Contents; sparsely fossiliferous consisting of spore-pollen and microplankton

Preservation: generally fair, with some well preserved and some poorly preserved forms.

Diversity: low for both spore-pollen and microplankton.

Assignment to the *Proteacidites tuberculatus* zone is based on the occurrence of *Cyatheacidites annulatus*. Other species in the assemblage are relatively long ranging forms with the possible exception of the acritarchs which are

represented by undescribed species. Examples of Upper Carboniferous spores (two specimens of *Triquitrites* and one of *Lycospora*) were identified in the assemblage. The presence of these forms might represent recycling, provided a reasonable provenance can be ascertained, or alternatively, they might have been introduced through a drilling mud additive. The latter appears more likely inasmuch as the identified genera are most prevalent in North American and western European Carboniferous assemblages.

Assemblage from sidewall core 6 at 6623 feet

Contents:

commonly fossiliferous, mixed assemblage with about equally abundant spore-pollen and microplankton.

A . 24

Preservation: good to poor with most specimens fairly well preserved.

Diversity: low for spore-pollen, moderate for microplankton.

The microplankton were relied upon more heavily than the spore-pollen in interpretating the age and zone assignment. Dinoflagellate association from 6623 feet is very similar to that described by Cookson and Eisenback (1967) from Strahan, Tasmania, which also contains spore-pollen indicative of the Upper *M. diversus* zone. Important dinoflagellate species in the Pike-I sample that also occur in the Strahan assemblage include *Kenleyia lophophora*, *Spinidinium essoi*, *Wetzeliella homomorpha* and *Homotryblium tasmaniense*, with the latter being the dominant species in both assemblages. Although spore-pollen fail to provide much additional zone-confirming data, the species identified are collectively compatible with the age determination based on the microplankton.

Assemblage from sidewall core 5 at 6647 feet

Contents:

abundantly fossiliferous, almost exclusively spore-pollen with rare microplankton.

Preservation: good to poor, condition of large (>50µ) and relatively thick walled forms is good whereas small, thin walled, or delicately structured species is rather poor.

Diversity:

seemingly low, probably due at least in part to the poor preservation that precludes more precise identification of many specimens.

Assignment to the Upper M. diversus zone is based on the co-occurrence of *Proteacidites grandis*, P. *leightonii* and P. *ornatus* with the first species being far more common than the other two. Specimens of the dinoflagellate *Deflandrea* flounderensis (known from the Upper M. diversus - P. asperopolus interval in the Flounder-Tuna area) and *Kenleyia lophophora* are present in the assemblages.

Assemblages from sidewall cores at 6751 feet (SWC 4), 6773 feet (SWC 3) and 6936 feet (SWC 1).

Contents:

sparsely to commonly fossiliferous with spore-pollen and sparse to rare microplankton.

Preservation: fair to poor, with the spores and gymnosperm pollen being better preserved than the angiosperm pollen.

Diversity: low, which is due at least in part to the poor preservation.

Common specimens of Lygistepollenites balmei occur in all assemblages, and in the shallowest sample this species is the most conspicuous form (26 specimens observed on one slide in a sparse assemblage). Other forms occurring in the interval from 6751 to 6936 feet and indicative of the L. balmei zone are Gambierina rudata, Gephyrapollenites wahooensis, Lygistepollenites ellipticus, Phyllocladidites reticulosaccatus and Polycolpites langstonii.

CONCLUSIONS

The occurrence of *Cyatheacidites annulata* is considered to indicate the presence of the *Proteacidites tuberculatus* zone (Oligocene) at 5994 feet.

Dinoflagellates comprise a major component of the Early Eocene Upper Malvacipollis diversus assemblage at 6623 feet. The dinoflagellate association is most similar to that described from Strahan, Tasmania (Cookson and Eisenack, 1967). Sparse to rare dinoflagellates are also present at 5994, 6647, 6751 and 6773 feet and are lacking at 6936 feet.

Assemblages with numerous specimens of *Lygistepollenites balmei*, together with other but less commonly occurring species also indicative of the *L. balmei* zone (Paleocene) were recovered from samples at 6751, 6773 and 6936 feet.

REFERENCE

Cookson, I. C. & Eisenack, A., 1967, Some early Tertiary microplankton and pollen grains from a deposit near Strahan, western Tasmania: Royal Soc. Victoria Proc., v. 80, pp. 131-140.

BASIN	

Gi	n	nc	land
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_____ DATE _____August, 1973

WELL NAME

Pi	ke-1
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ELEVATION

AGE	PALYNOLOGIC	HIGHEST DATA LOWEST DATA									
	ZONES	Preferred Depth	Rtg	Alternate Depth	Rtg		Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
- 00 00.	<u>T. bellus</u>				8						
0LI GO- MI OC.	<u>P. tuberculatus</u>	5994	2				5994	2			
·	U. <u>N. asperus</u>			·			{				
់ ជ	L. N. asperus										
EOCENE	P. asperopolus										
ы	U. <u>M</u> . <u>diversus</u>	6623	1				6647	1			
	L. <u>M</u> . <u>diversus</u>					·					
PALEO-	<u>L. balmei</u>	6751	1	·			6936	1			
PAL CE	<u>T. longus</u>										
	<u>T</u> . <u>lilliei</u>										
LATE CRETACEOUS	<u>N. senectus</u>										
LATE RETACI	<u>C. trip./T.pach</u> .										
CR	<u>C. distocarin</u> .										
	<u>T. pannosus</u>										
	<u>C. paradoxa</u>										
SUC	<u>C. striatus</u>										
IA	U. <u>C</u> . <u>hughesii</u>										
CRETA	L. <u>C. hughesii</u>										
	<u>C. stylosus</u>										
Pre-	Cretaceous	·									
COMM	ENTS:					•	,				
RATI	1; SWC or pollen 2; SWC or and/or 3; CUTTING pollen 4; CUTTING	CORE, EXCEL and micropl CORE, GOOD or micropla CORE, POOR microplankt S, FAIR CON or micropla S, NO CONFI ankton.	ankt CONF nkto CONF on. FIDE nkto	on. <u>IDENCE</u> , ass n. <u>IDENCE</u> , ass <u>NCE</u> , assemb n, or both.	embl embl lage	age wit age wit with :	th zone spe th non-diag zone specie	ecies gnost es of	s of spore ic spores either s	s and , pol	len and
NOTH	E: If a sample ca Also, if an en better confide	try is give	n a	3 or 4 conf	iden	ce rat:	ing, an al				
DATI	E RECORDED BY:	L. E. St	over	•	·	D.	ATE	Augu	st, 1973		

MASIN

GIPPSLAND

DATE

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<u>KB +32'</u> JELL NAME PIKE-1 , ELEVATION HIGHEST DATA LOWEST DATA PALYNOLOGIC Preferred Alternate 2 way Preferred Alternate 2 ZONES Rtg. Depth Depth Rtg. time Depth Rtg Depth Rtg. t: P. tuberculatus 5994 1 5994 1 U. N. asperus M. N. asperus L. N. asperus P. asperopolus U. M. diversus M. M. diversus L. M. diversus 6623 2 1 6647 U. L. balmei 1 6751 6773 0 . L. balmei 1 6936 1 6936 T. longus T. lilliei N. senectus C. trip./T.pach C. distocarin.

COMMENTS:

T. pannosus

Wetzeliella homomorpha Zone at 6773(1)

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. RATINGS: 0; SWC or CORE, EXCELLENT CONFIDENCE, assemblage with zone species of spores. pollen and microplankton. 1; SWC or CORE, GOOD CONFIDENCE, assemblage with zone species of spores and pollen or microplankton. 2; SWC or CORE, POOR CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton. 3; CUTTINGS, FAIR CONFIDENCE, assemblage with zone species of either spore and pollen or microplankton, or both. 4; CUTTINGS, NO CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton. NOTE: If a sample cannot be assigned to one particular zone, then no entry should be made. Also, if an entry is given a 3 or 4 confidence rating, an alternate depth with a better confidence rating should be entered, if possible. DATE August 1973. DATA RECORDED BY: LES. and the second DATE Jan. 1975. DATA REVISED BY: A.D.P.

WELL N	NAME: PIKE # 1						
DEPITH (FT)	I SAMPLE TYPE	PRESER- VATION	DIVERSITY	SPORE/POLLEN ZONE	DINOFLAGELLATE	CONFIDENCE LEVEL	ENVIRONMENT
5994	SWC 12	Good	Moderate	U.N. asperus	Spiniferites assemb	5	Marginal marine
6456	SWC 9	Poor	V. Low	Indet	Indet	-	-
6507	SWC 7	Barren	-	-	-	**	-
6623	SWC 6	Good	High	M. diversus	Indet	5	Marginal marine
6647	SWC 5	Fair	High	M. diversus	-	3	Non-marine
6751	SWC 4	Good	High	U.L. balmei	A. homomorphum	5	Marginal marine
6773	SWC 3	Good	High	U.L. balmei	A. homomorphum	5	Marginal marine
6936	SWC 1	Good	High	L. balmei	· -	5	Non-marine

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OIL and GAS DIVISION

- 3 FEB 1983

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BY W.K. HARRIS FOR AQUITMINE, PHILLIPS, SHELL.

GEOLOGICAL INTERPRETATION

AUSTRALIAN AQUITAINE PETROLEUM

PIRE-1. W671



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2 0 SEP 1982 16th September 1982

CONFIDENTIAL

Mr Ian Fraser, Assistant Director (Exploration), Oil and Gas Division, Department of Minerals and Energy, 151 Flinders Street, MELBOURNE VIC 3000

11 Trenter

Dear Mr Fraser,

Please find enclosed a seismic section and an explanatory note on seismic interpretation of a barrier system in VIC/P17 (Gippsland Basin) which is being carried out by our Gippsland Team. This interpretation represents an idea which has not been put forward previously, and therefore, much further work has to be carried out to test the idea.

Your special interests in our work is very much appreciated.

Yours faithfully, AUSTRALIAN AQUITAINE PETROLEUM PTY LTD

C1. Cambel

<u>C. LAMBERT</u> (Gippsland Team Leader)

Registered Office: Stephen Jaques & Stephen, Canberra House, 40 Marcus Clarke Street, Canberra, A.C.T. 2601



2 0 SEP 1982

CONFIDENTIAL

SEISMIC FACIES OF A BARRIER SYSTEM IN VIC/P17 (GIPPSLAND BASIN): A PRELIMINARY INTERPRETATION

The enclosed section represents an example of a sedimentary body found in VIC/P17 which has been interpreted as a barrier system. The age of this barrier system as encountered at Pike No. 1 and given by palynological evidence is between <u>M. Diversus</u> and <u>U.N.</u> <u>Asperus</u> zones. The barrier system is composed of three distinct seismic facies: A, B and C.

Facies A is characterised by a strong reflection with the overlying shales of the Lakes Entrance Formation. It is composed of a coarse to medium-grained, well-sorted sandstone (see description of core 1 at Pike). The sandstone consists primarily of quartz grains, well to well rounded and frosty white. The rock is characterised by a good porosity (21% at Pike) and horizontal permeability (H = 2402 millidarcies). The facies has been interpreted as a barrier beach and shoreface complex which offlaps an older surface in one side, but grades to another facies (Facies B) in the opposite side.

Facies B is characterised by low lateral continuity and variable amplitudes and by a lack of contrast with the overlying Lakes Entrance Formation shales. The facies has been interpreted as a unit of lagoon shales with possible embedded sandstones.

Facies B grades further (landward) to Facies C which is characterised by a strong continuous reflection. In VIC/P17 these strong continuous reflections are usually caused by the occurrence of coal seams as indicated in many wells tied to seismic sections. Thus they are interpreted as a backbarrier marsh environment which occur behind the suggested lagoon facies (Facies B).

This barrier probably is of a transgressive type as another barrier (drowned barrier) has been interpreted in the overlying unit. The transgression possibly took place as a result of a coastal subsidence. However, the present interpretation will have to be supported by the geometries of these facies.

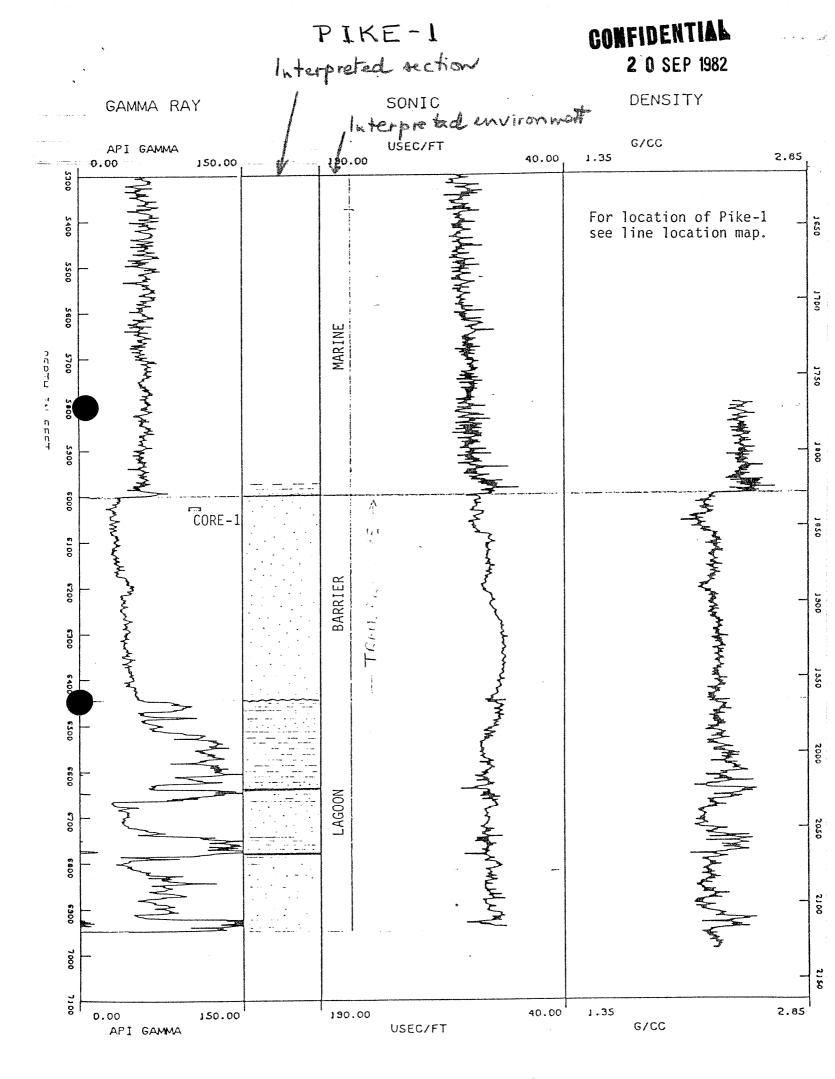
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The present work represents a slightly different version of seismic facies interpretation of barrier systems carried out previously by Ly et al., (1982), and is part of a larger ongoing interpretation project. All units and facies of ages ranging from Late Cretaceous to Miocene are being systematically mapped throughout VIC/P17 and it_will be interesting to see how the result will match the present model.

REFERENCE

Ly, K.C., Poulain, P., Mackie, S., 1982: Eocene sedimentation in VIC/P17 Gippsland Basin: Evidence from sedimentology and seismic stratigraphy. AAP Report No. PG/168/82 (Unpublished).

> KIM C. LY (Senior Geologist)



DIGIMAP PREPARED FOR AQUITAINE BY

2 0 SEP 1982

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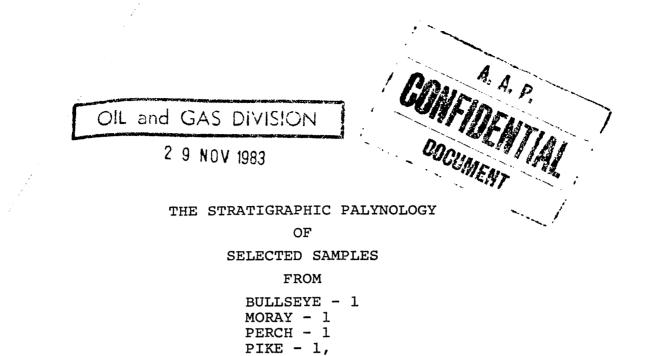
CORE DESCRIPTION									CORING INTERVAL RECOVERY LENGTH % RECOVERY					WELL PIKE-1				
	PERMIT BASIN GIPPSLAND									OPERATION DATE					WD	BASE GEOLOGIST		
								STR	TYPE	LITH		A GICAL			DESCRIPTION			
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1834												PERIOD	GROUP	STAGE	CYCLE	FACIES	ENVIROMENT	LITHOLOGY
		-										EOCENE	LATROBE			SHOREFACE-BEACH	NEARSHORE MARINE	Sandstone:frosty white, well rounded,well sorted, unconsolidated coarse- very coarse grained quartz excellent perosity & permeability.
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OTHER REPORTS

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Helene A Martin, School of Botany, University of New South Wales, Box 1 P.O., KENSINGTON, 2033. AUSTRALIA. (02)662 2954 12

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UNION TEXAS AUSTRALIA INC.

GEOCHEMICAL ANALYSES OF WELLS FROM THE GIPPSLAND BASIN, AUSTRALIA

BARRACOUTA-I, HALIBUT-I, HAPUKU-I, KINGFISH-I, MORAY-I, PERCH-AI, PIKE-I, PISCES-I, SNAPPER-I, TUNA-I

Project No. 9/83/105

Bу

S. Sengupta, S. Hindmarsh and P.J. Bigg

January, 1984

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Prepared by:

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Gearhart Pty. Ltd.- Geodata Unit 2 138 Musgrave Avenue Welland, S.A. 5007 Australia

Prepared for:

Union Texas Australia Inc. 23rd Level 459 Collins Street Melbourne, VIC 3000 Australia

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PETROLEUM DIVISION

02 JUL 1986

FISSION TRACK ANALYSIS OF APATITE AND ZIRCON FROM THE GIPPSLAND BASIN: MULLET-1, GROPER-1 AND PIKE-1.

A Report prepared for Esso Australia Ltd.

P.F. GREEN AND I.R. DUDDY

REPORT IN B- 5-2

October 1985

GEOTRACK REPORT NO. 29

Department of Geology, The University of Melbourne, Parkville, Victoria 3052, Australia Telephone National (03) 341 6520 International + 61 3 341 6520 Telex AA35185 UNIMEL Cables UNIMELB

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This is an enclosure indicator page. The enclosure PE905988 is enclosed within the container PE902333 at this location in this document.

The enclosure PE905988 has the following characteristics:
ITEM_BARCODE = PE905988
CONTAINER_BARCODE = PE902333
NAME = Well Completion Log
BASIN = GIPPSLAND BASIN
PERMIT = VIC/P2
TYPE = WELL
SUBTYPE = COMPLETION_LOG
DESCRIPTION = Well Completion Log (enclosure from
WCR) for Pike-1
REMARKS =
$DATE_CREATED = 25/07/73$
DATE_RECEIVED =
W_NO = W671
WELL_NAME = PIKE-1
CONTRACTOR =
CLIENT_OP_CO = ESSO EXPLORATION AND PRODUCTION
AUSTRALIA INC

This is an enclosure indicator page. The enclosure PE905989 is enclosed within the container PE902333 at this location in this document.

The enclosure PE90	5989 has the following characteristics:
ITEM_BARCODE =	PE905989
CONTAINER_BARCODE =	PE902333
NAME =	Structure Map
BASIN =	GIPPSLAND BASIN
PERMIT =	VIC/P2
TYPE =	SEISMIC
SUBTYPE =	HRZ_CNTR_MAP
DESCRIPTION =	Pike Prospect Structure Map on Top of
	Latrobe Group, Post Drill, (enclosure
	from WCR) for Pike-1
REMARKS =	
$DATE_CREATED =$	31/10/73
DATE_RECEIVED =	
W_NO =	W671
WELL_NAME =	PIKE-1
CONTRACTOR =	
CLIENT_OP_CO =	ESSO EXPLORATION AND PRODUCTION
	AUSTRALIA INC
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This is an enclosure indicator page. The enclosure PE905991 is enclosed within the container PE902333 at this location in this document.

The enclosure PF90	5991 has the following characteristics:
ITEM BARCODE =	
CONTAINER_BARCODE =	
	Time Depth Curve
BASIN =	GIPPSLAND BASIN
PERMIT =	VIC/P2
TYPE =	WELL
SUBTYPE =	VELOCITY_CHART
DESCRIPTION =	Time Depth Curve (enclosure from WCR)
	for Pike-1
REMARKS =	
DATE_CREATED =	
DATE_RECEIVED =	
W_NO =	
WELL_NAME =	
CONTRACTOR =	
CLIENT_OP_CO =	ESSO EXPLORATION AND PRODUCTION
	AUSTRALIA INC
(Inserted by DNRE -	Vic Govt Mines Dept)

This is an enclosure indicator page. The enclosure PE905990 is enclosed within the container PE902333 at this location in this document.

The enclosure PE90	5990 has the following characteristics:
ITEM_BARCODE =	PE905990
CONTAINER_BARCODE =	PE902333
NAME =	Geological Cross Section A-A'
BASIN =	GIPPSLAND BASIN
PERMIT =	VIC/P2
TYPE =	WELL
SUBTYPE =	CROSS_SECTION
DESCRIPTION =	Geological Cross Section A-A'
	(enclosure from WCR) for Pike-1
REMARKS =	
DATE_CREATED =	31/10/73
DATE_RECEIVED =	
W_NO =	W671
WELL_NAME =	PIKE-1
CONTRACTOR =	
CLIENT_OP_CO =	ESSO EXPLORATION AND PRODUCTION
	AUSTRALIA INC
(Inserted by DNRE -	Vic Govt Mines Dept)

This is an enclosure indicator page. The enclosure PE603603 is enclosed within the container PE902333 at this location in this document.

The enclosure PE603603 has the following characteristics: ITEM_BARCODE = PE603603 CONTAINER_BARCODE = PE902333 NAME = Mud Log BASIN = GIPPSLAND PERMIT = VIC/P2TYPE = WELL SUBTYPE = MUD_LOG DESCRIPTION = Mud Log for Pike-1 REMARKS = DATE_CREATED = 23/07/73DATE_RECEIVED = $W_NO = W671$ WELL_NAME = PIKE-1 CONTRACTOR = BAROID CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

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This is an enclosure indicator page. The enclosure PE603604 is enclosed within the container PE902333 at this location in this document.

	3604 has the following characteristics:
ITEM_BARCODE =	PE603604
CONTAINER_BARCODE =	PE902333
NAME =	Compensated Neutron Density Log
BASIN =	GIPPSLAND
PERMIT =	VIC/P2
TYPE =	WELL
SUBTYPE =	WELL_LOG
DESCRIPTION =	Compensated Neutron Formation Density
	Log for Pike-1
REMARKS =	
DATE_CREATED =	23/07/73
DATE RECEIVED =	
W NO =	W671
WELL NAME =	PIKE-1
CONTRACTOR =	SCHLUMBERGER
CLIENT OP CO =	ESSO AUSTRALIA LIMITED
	Win Grad Minar Daub)

This is an enclosure indicator page. The enclosure PE603605 is enclosed within the container PE902333 at this location in this document.

The enclosure PE603605 has the following characteristics: ITEM_BARCODE = PE603605 CONTAINER_BARCODE = PE902333 NAME = ISF/Sonic Log BASIN = GIPPSLAND PERMIT = VIC/P2TYPE = WELLSUBTYPE = WELL_LOG DESCRIPTION = ISF/Sonic Electrical Log for Pike-1 REMARKS = DATE_CREATED = 23/07/73DATE_RECEIVED = $W_NO = W671$ WELL_NAME = PIKE-1 CONTRACTOR = SCHLUMBERGER CLIENT_OP_CO = ESSO AUSTRALIA LIMITED (Inserted by DNRE - Vic Govt Mines Dept)