

Natural Resources and Environment

AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

BREAM 3



WELL SUMMAR 1 Folio No. 2 Referred to FILE COVER INSTRUCTIONS FOR ACTION OFFICERS

- (1) FOLIO NUMBERS: Each subject paper attached to a file is to be given a consecutive number by the attaching officer. Papers must not be removed from or attached to a file without approval.
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REGISTRY MUST BE NOTIFIED OF ANY FILE MOVEMENTS BETWEEN OFFICERS

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	REPORT BY LE. STOVER & A	
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W566

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- 2. Time Depth Curve
- 3. Well Completion Log
- 4. Exploration Logging Mud Log

BREAM 3 - WELL SUMMARY

TYPE OF WELL:

Wildcat

PURPOSE OF WELL:

The site of Bream 3 was chosen in order to test the hydrocarbon potential of the western upthrown block at the top of the Latrobe unconformity in the Bream structure, and also to confirm the Bream

2 oil and gas discovery.

STATUS:

Plugged and abandoned.

LOCATION:

Latitude: 38° 30' 47" South Longitude 147° 46" 15" East

LEASE:

Vic/Pl.

RIG:

"Ocean Digger"

ELEVATION:

Rotary Table 93 feet above mean sea

level.

WATER DEPTH:

185 feet.

SPUDDED:

0915 hours, 16th November, 1969.

ABANDONED:

1500 hours, 10th January, 1970.

DRILLING TIME:

56 days.

TOTAL DEPTH:

11,012 feet.

CASING:

20" shoe set at 622 feet.

9 5/8" shoe set at 6667 feet.

CEMENT PLUGS:

Plug No.	<pre>Interval (ft.)</pre>	No. of Sacks
1	9656-10,400	350 Top tagged
2	8863-9640	350 Top tagged
3	6285-6800	210 Top tagged
4 .	Bottomed at	54
	750 feet.	

CORÉS:

Four conventional cores were cut, with aggregrate footage of 159 feet, and recovery of 95 feet (59%).

Core No.	Interval (ft.)	Recovery
1	6335 – 6395	29
2	6395 – 6444	26
3	6444-6469	20
4	10,832-10,857	20

50 S.W.C.'s were shot, and 39 recovered. A velocity survey was run.

CORE ANALYSIS:

Refer to Core Laboratories analysis.

MUDLOGS:

A continuous mudlog record was maintained by Exploration Logging Inc. in the interval 675 - 11,012 feet (T.D.). For analysis refer to drill data submitted at completion of the well.

ELECTRIC LOGGING:

rod	Run	Interval (ft.)
IES IES FDC.GR FDC.GR BHCS.SP	1 2 1 2	2310-6713 6667-11,010 2310-6712 6667-11,007 2310-6700
BHCS.SP CDM CDM Neutron MLL FIT	2 1 2 1 1 Tests 7-14 Tests 1-6	2310-6700 6667-11,006 2310-6707 6667-11,006 5500-6707 5500-6700

TESTING:

A total of fourteen Formation Interval Tests were run eleven of which were successful. Details are as follows :-

of which were such	ccessful.	Details are as follows :-
F.I.T. No.1	6427 feet	- Recovered 8500 cc's. water, mainly filtrate, 0.85 cub.ft. gas.
F.I.T. No.2	6408 feet	- Recovered 15,000 cc's. oil, 51° A.P.1 @ 60° F, 81 cub.ft. gas. G.O.R. 860
F.I.T. No.3	6358 feet	- Recovered 135.4 cub.ft., gas, minor sand and mud.
F.I.T. No.4	6337 feet	- Recovered 135 cub. ft. gas.
F.I.T. No.5	6382 feet	- Recovered 10,000 cc's oil, 50° A.P.1 @ 60°F, 61.5 cub.ft.gas, G.O.R.980.
F.I.T. No.6	6433 feet	- Recovered 21,000 cc's water and 2.2 cub ft. gas.
F.I.T. No.7	0,042 feet	- Recovered 0.1 cub.ft. gas, 6400 cc's

F.I.T. No.8 9680 feet - Recovered 0.3 cub.ft.gas, 11800 cc's filtrate, 50 cc's mud.

filtrate 50 cc's mud.

F.I.T. No.9 9638 feet - Packer failed.

F.I.T. No.10	8484 feet	- Tool	malfunction
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- F.I.T. No.11 8484 feet Tool plugged.
- F.I.T. No.12 9624 feet Recovered 0.1 cub. ft. gas, 50 cc's filtrate, 50 cc's mud.
- F.I.T. No.13 8487 feet Recovered 103.3 cub. ft. gas, 600 cc's condensate, 6300 cc's filtrate, 50 cc's mud.
- F.I.T. No.14 7350 feet Recovered 127.1 cub. ft. gas, 1200 cc's condensate, 1500 cc's filtrate, 50 cc's mud.

Interval (ft.)

- <u>Mudstone</u>, light grey to grey brown, moderately firm, calcareous, slightly pyritic and fossiliferous; <u>Greensand</u>, sandy, glauconitic, fine to coarse grained, low porosity and permeability with <u>Siltstone</u>, dark brown.
- 6200-6335 Sandstone, fine to coarse grained, subangular to rounded, no fluorescence, with Coal.

CORE NO.1

- 6335 6335 feet
 3 inches Sandstone, fine to medium grained, good porosity and permeability, no fluorescence.
- 6335 feet 3 inches Coal plus 6 inches Shale.
- 6337-6340 feet <u>Sandstone</u>, as above, slight odour, no fluorescence.
- 6340-6342 feet Interbedded Shale and thin Sandstone layers.
- 6342-6357 feet Interbedded <u>Sandstone</u> and <u>Siltstone</u>
- 6357-6364 feet Sandstone, medium to coarse grained, good porosity and permeability, strong odour, yellow to white fluorescence rapid cut.
- 6364-6395 feet No recovery.

CORE No.2.

6395-6400 feet 6 inches

- Interbedded Shale and Sand fine grained.

6400 feet.6

inches - 6421 ft. - <u>Sandstone</u>, with good yellow fluorescence throughout.

6421-6444

No recovery.

CORE NO.3

6444-6464 feet

Sandstone, very fine grained, and Siltstone with 6" Sand at 6448 feet with strong odour, yellow brown fluorescence, yellow cut, darker appearance. Remainder has no fluorescence or cut.

6464-6469 feet

- No recovery.

6469-6560 feet

Sand, medium grained to granular, subangular to rounded, unconsolidated, no fluorescence.

6560-6735

- <u>Siltstone</u>, dark brown, with interbedded Coal.

6735-6760

Cement.

6760-8500

Sandstone, white, fine to very fine grained, quartzose, sub-angular. Shale, dark brown, carbonaceous. Coal.

8500-9300

Sandstone, white, medium to very coarse grained, unconsolidated, pyritic and Sand, very fine, friable.
Shale, dark brown, carbonaceous, silty, firm.
Coal, black, pyritic.

9300-9840

- Shale, brown, carbonaceous Sandstone, white, quartzose, fine to coarse grained with Sand, white, medium to coarse grained. Coal and Gilsonite.

9840-10,170

Sandstone, white, fine to very coarse grained, slightly pyritic and <u>Sand</u>, white, fine to very coarse grained <u>Shale</u>, light to medium brown, carbonaceous. <u>Coal</u>.

10,170-10,410

- <u>Sandstone</u>, white, fine to very coarse grained, poorly sorted, clay matrix, patchy fluorescence. <u>Siltstone</u>, brown, carbonaceous <u>Shale</u>, light to medium brown, silty. <u>Coal</u>.

10,410-10,832

- <u>Sandstone</u>, white, fine to very coarse grained, clay matrix, some fluorescence, fair cut with blue-white colour, but very slow. <u>Shale</u>, silty, carbonaceous, micaceous.

<u>Coal</u>, bleeding gas.

10,832-10,857

- Mainly <u>Sandstone</u>, light grey, fine to coarse-grained, calcareous, clay matrix, poorly sorted, tight appearance, bright gold mineral fluorescence, fair to poor cut, interbedded with thin shale beds.
- 10,857-11,012 (T.D.)
- Sandstone, white, calcareous, clay matrix, bright gold fluorescence, blue-white colour, slow cut.
 Shale, silty carbonaceous, micaceous.
 Coal.

2. LITHOLOGY (SIDE WALL CORE DESCRIPTIONS)

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3	6574	/"	//			lt g y		3At - modifm	-											
4	6447	3/4"	Siltstone =	some beda	ding traces	dk br.		stt- nog. fun	v.5/	nil										
5	6435	/"	F-m sandsta	ene		\$'y		frisble				_					<u> </u>			
6	6425	٠ <u>. "</u>	M-c sandsto			<i>3</i> 4	•	Uncons - frisble	-	weak		modastc		yellav white	foir	blue	weak- mod	blue Wh	•	
7	6420	3/4"	Silty sandste	v.f.gra	of bedding	H-84	silty	mod fm	-	slight		1	Strong	white	fairly spid	blue wh.	mod.	blue White	•	
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9	6375	3/4	Silty sand,	A.		br 84		mod fm		wesk		2024	mod. spotty	ellow	V. Wesk/ S/or/		weak	blue wh.	•	
10	6365	3/4	Siltstone wi	ith qtzgr	Line	ok br		Fairly 5ft				-	v. Weak		mil				0	
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12	6282	14	V.f. sandsto			84	sl. Silty	uncons - frioble	v.s/.				ni/							
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14	6196	1"	Glacemitic, 57 silty - re	1. pyritic, s	robe?	br. blk	1	mod-	s/.											
15	6100	/ 4	SI. glacesonit			br		Sft- Mod fm	✓											
16	5968	.1/2	Glave. sandste	oue, v.f-	7	84 br	sitt	mod fm	nil	V.5/.										
17	5880	24	Calc.silts	tone		dkg		Fm	Very											
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19	5500	N.R	No Recovery																	<i>S</i>
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3. CORE ANALYSIS & DESCRIPTION

Petroleum Technology Laboratory, Bureau of Mineral Resources, Geology and Geophysics, Canberra

. CORE ANALYSIS RESULTS

(i) Unless otherwise stated, porosities and permeabilities were determined on two plugs (V&H) cut vertically and horizontally to the axis of the core. Ruska porosimeter and permeameter were used with air and dry nitrogen as the saturating and flowing media respectively. (ii) Oil and water saturations were determined using Soxhlet type apparatus. (iii) Acetone test precipitates are recorded as Neg., Trace, Fair, Strong or Very Strong.

WELL NAME AND NO. Bream No.3

DATE ANALYSIS COMPLETED November 11, 1975

Core lo.	Sampl Depth	1	5	Effective	1.	te bility darcy)		ty_	Fluid Saturat (% pore		Core Water Salinity	5	Fluorescence of freshly broken	Sample "cut" in tetrachlorethylene
	From	To		two plugs (% Bulk Vol.	٧	Н		Apparent Grain	Water	011	(p.p.m. NaCl)	Test	core	con action occupyana
1	6338111		Sst; m.gr. sl. carb.	22.0	16	108	2.07	2,66	4	2,0	N.D.	Ni J	N))	NIL
1	6345°0°		Sst; c.gr. arg.carb.	14.9	N.O.	N.O.	2,25	2,65	28	5,2	N,D.	Trace	L_NIJ	NJ
1	6351 * 10 *	6352*5*	Sst, f.gr. carb.	24.3	27	197	2,01	2,64	3	0,9	N.D.	_NiJ		
1	6354*11*	6356*0*	as above	30.7	323	597	1.87	2,65	2	0,7	N.D.	Trace	Ni]	
1	6361907	6361*4*	Sst; f.gr. to m.gr.	26.0	977	574	1.98	2.66	0,3	2.9	H.D.	NII	<u> </u>	Iraca
2	6404°2°	6405702	Sst; f.gr. Mic.	27.7	905_	985	1.93	2,65	1	5.2	N.O.	9	Trace dull even yellow	Irace
2	6410°2°	6411*1"	Sst; f.gr. arg. mic.	24.2	84	318	2.03	2.67	2	3.7	N.D.	NII	NII	NI]
2	6414811#	6415°10°	Sst; m.gr.	26.8	923	1170	1.95	2.64	0.7	2.5	M.D.	2	Trace dull even yellow	Trace

Remarks: -

General File No. 74/1076 Well File No.

CORE ANALYSIS RESULTS

NOTE: (i) Unless otherwise stated, porosities and permeabilities were determined on two plugs (V&H) cut vertically and horizontally to the axis of the core.	
Ruska porosimeter and permeameter were used with air and dry nitrogen as the saturating and flowing media respectively. (ii) Oil and water saturations were	
determined using Soxhlet type apparatus. (iii) Acetone test precipitates are recorded as Neg., Trace, Fair, Strong or Very Strong.	

WELL NAME AND NO. Bream No.3

DATE ANALYSIS COMPLETED __November_11_ 1975_____

Core No.	Samp Depth	1	Lithology	Effective Porosity	Absolu Permeat (Millio	oility	(gm/c	ty :c.)	Fluid Saturat (% pore		Core Water Salinity	i .	Fluorescence of freshly broken	Sample "cut" in tetrachlorethylene
	From	To		two plugs (% Bulk Vol.	٧	Н		Apparent Grain	Water	0i1	(p.p.m. NaCl)	Test	core	tour don't will be the state of
2	641718#	· 6418978	Sst; f.gr. carb slty	22,1	10	37	2.11	2,69	\$.	2,8	N.O.	111	No 1	NS)
3	6458°0°	6459°0°	Sst; v.f.g carb. slty		14	38	2.08	2,66	9	8,3	N.D.	NIJ	Bright spot- ted yellow	N1
Ą	10,835°0°	10,835'10'		18.0	6,8	3.6	2.19	2,66	1	NII	N.D.		Bright spot- ted yellow	
<u> </u>	10,846*2	10,84710	Sst; m.gr. to c.gr.	2.0	0.11	3.8	2.64	2,69	6	NET	N.D.	NET		Ni l
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Remarks: - * Fractured

General File No. 74/1076
Well File No.



PERTH ADDRESS 69 GREAT EASTERN HIGHWAY VICTORIA PARK WESTERN AUSTRALIA PHONE 81 4437

CORE ANALYSIS REPORT

COMPANY	ESSO-BHP	DATE	Nov. 25.	1969	
WELL	BREAM #3		6335 FT		FT
LOCATION/FIELD	A		EER CRAIG; WE		-
COUNTY	STATE VICTORIA				
COUNTRY	AUSTRALIA				
REMARKS CUT 6	OFT; RECOVERED 29FT: SANDSTONE.	\cdots	SAND	0000	LIME
	ARSE GRAIN, GREY TO GREY/BROWN.		SILTY SAND	0000	CONGL.
	MOD. HARD; THIN INTERBEDS SHALE	EEEE	SILTST.		
	LTSTONE. IN BOTTOM 7FT:BLUE/WHITE/	E==3	SHALE		
YELLOW FLU	OR AND LAST CUI; STRONG ODOR				

	YELLOW	FLUOR.	AND	sular i	BATAS	TRONG	ODOR								1A	٧A	LYSI	s c	SR/	٩PI	Н						
SAMPLE NUMBER	DE:#	AIR PERM. MD.	POROSITY PERCENT	9/ PORE	TURATION VOLUME	GRAVITY OIL °API	TOTAL CL [*] G/G	REMARKS	PER	2000	2 /5	500	10	00			°		00	80	0	60)	40	PORI	E O- 20	_0 _0
		•		OIL	WATER			LITH.	POI	ROSI 40		% > 30	2(10		0	OIL S.	ATL 0	JRA 20		N 9		ORE 60	a 459		100
1	6338	436			41			SANDST					*		a		• •	• • ,								\prod	
2	6339	537	24.7					SANDST					\mathbf{I}	H			• •	• •								П	П
3_	6340	26)				SANDST						1	4	7	J	• •	П				/			Π	П
4	6352	1660	26.0)				SANDST		Ш		-	1	7	#		• •			\prod			1				П
5	6358	4	13.1	TR	64			SANDST		Ш	Ψ		#	\coprod	\mathbb{H}	Щ		• •				1	\prod				1
6	6359	5	12.7					SANDST		Ш							[7	U				1
7	6360	2780	23.9	11.3	34			SANDST		+	+++	++		-				•	1	\prod	11	\prod		abla	\prod	111	Ħ
8	6361	1760	20.8					SANDST		+	N						•••	•		M	111	\prod	\prod	1		\parallel	#
9	6362	894	23.9	9.6	55			SANDST				1	X		\prod		• •	• •	J				7	Π	111		#
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P<mark>erth Address 69 Great Eastern H</mark>ighway Victor^{ia Park Western Australia Phone **81.4437**}

CORE ANALYSIS REPORT

	COMPANY	ESSO-BHP	DATE		Nov. 25	. 1969	
	WELL	BREAM #3	DEPTH		6395	то 6444	
	LOCATION/FIELD	OFFSHORE/GIPPSLAND BASIN	GEO-ENGIN	NEER	WEARE;	CLARKE	
	COUNTY	STATE VICTORIA	 				
%	COUNTRY	AUSTRALIA				-	
	REMARKS CUT 4	9FT; RECD. 26FT: SANDSTONE .LT-	AYAV FN	SAND		امممما	LIME
		SUBANG TO SUBRD V POORLY SR		SILTY		0000	CONGL.
		ALEY, QTZ W/MINOR CHLOR, X-BE	·	SILTST	•		A SAN
		LE MARKS BURROWS WEAK TO ST		SHALE			
	PETROLEUM O	DOR & WHITELUOR GOOD POROS,	OD TO HIGH PE	RM.	ANALYS	SIS GRAPH	

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3	6398	178	17.7					e 98				Ш		4	×		Ĵ	• • •	•			Ш	Ш	Ш	Ш	Ш			
14	6399	1150	38.6					u			X÷	\Box		O:	#	\coprod			0				Ш	Ш	Ш		\coprod	Ш	
5	6400	583	18.6	7.1	67			n		Ш	Ш					Ø				*	Ш	¢			Ш		\coprod	Ш	
6	6401	1380	25.6					17		Ш	Ш		Q			\coprod			0		Ш		N		Ш	Ш	Ш	Ш	
7	6402	1070	23.1					172	Ш			Ш		X	الا	\coprod			•		Ш		\prod		Ш	Ш	\prod		
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9	6404	1130	20.5					H ·						Ø.					•	Ш			Ш	Ш	Ш	Ш	Ш	Ш	
10	6405	540	25.0					18	Ш	Ш	Ш		×			Ø			•		Ш		Ш	Ш	Ш	Ш	Ш	Ш	1
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13	6408	348	25.1					19			Ш	Ш					ಶ				Ш	Ш	X				Ш	Ш	
14	6409	550	22.7	5.1	62		<u> </u>	10	Ш		Ш	Ш		X	Ш	Q			•	*			9			Ш	Ш		1
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16	6412	137	22.6	1.7	67			29	Ш	\parallel	Ш	Ш		X			<u>ئر</u>		•		Ш	Ç		Ш	Ш	Ш	Ш	Ш	
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20	6419	52	26.0					n	Ш	Щ	Ш		X		Ш		*]	•	Ш	Щ	1	Ш	Ш		Ш		Ш	1
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EXPLORATION LOGGING OF AUSTRALIA, INC. A Geological-Engineering Service

PERTH ADDRESS 69 GREAT EASTERN HIGHWAY V CTORIA PARK WESTERN AUSTRALIA PHONE 614437

CORE ANALYSIS REPORT

COMPANYESSO-BHP	DATE NOV. 26.	1969
WELL BREAM #3	DEPTH6444 •	to 6469 ·
LOCATION/FIELD OFFSHORE/GIPPSLAND BASIN	GEO-ENGINEER WEARE	
COUNTY STATE VICTORIA		
COUNTRYAUSTRALIA		
REMARKS CUT 25FT: RECOVERED 20FT: SILTSTONE.	SAND	DDDD LIME
DARK GREY/BROWN, CARBONACEOUS, INTERBEDDED W/	SILTY SAND	OOOO CONGL.
SILTY SHALE, FRIABLE MICACEOUS, THIN LAMINATION	IS EEEE SILTST.	
OF SILTY SANDSTONE . GIN STRINGER WIDK BROWN	SHALE	
STAIN, YELLOW FLUOR BRIGHT YELLOW CUT, THIN STR	INGERS COAL. ANAL	VCIC ODADLI

ST/	AIN, YELL	OW FL	TAB	<u>BLAKT</u>	DAYFALL	OW CU	Т,ТН1	N STRIN	1GE	RS	. c	OA	، د ,	•	1A	NA	LYSI	S C	∍RA	\PH	l					
SAMPLE NUMBER	DEPTH FEET	AIR PERM. MD.	POROSITY PERCENT	FLUID SA % PORE	ATURATION E VOLUME	GRAVITY OIL "API	TOTAL CL G/G	REMARKS		40	ABILI	30	20	0	10			WATE	ER S.			TION 60	40		RE 0-	44.
W.Z.				OIL	WATER	AFI	6/6	LITH.	POR	ROSI 40	1TY 9	% x 30	20		10		0	OIL S	ATUI	RAT		% 40	PORI		— x 80	1.5
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1	6460	46.	28.9	[<u> </u>	 	SANDST	HO.	#	++++	X	\prod	\prod	\prod	#	*	• •			\prod	\prod	\prod	\prod	\prod	\prod
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EXPLORATION LOGGING OF AUSTRALIA, INC. A Geological-Engineering Service

PERTH ADDRESS 69 GREAT EASTERN HIGHWAY VICTORIA PARK WESTERN AUSTRALIA PHONE 614437

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RE	MARKS <u>CUT</u>	25FT	; RECOV	ERED	20FT	; SANE	STON	E.LIGHT	r	$\cdot \cdot $	SA	.ND			{	000		,	IME			
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SAMPLE	DEPTH FEET	PERM.	POROSITY PERCENT			OIL "API	CL G/G	REMARKS					2									
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CORE DESCRIPTION

Core No. 1

WELL: BREAM - 3

Interval Cored 6335 - 95 ft., Cut 60 ft., Recovered 29 ft., (48 %) Fm. LATROBE Bit Type CHRISTENSEN C-20 Bit Size 85/6 in., Desc. by Bruce Mckey Date 25-11-69

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology	
Coring Rate	(1" = 5') 5 V ==	Shows Sl. odour	6335 6336 4 SANDSI PYT, 8000 6335 4 - 37 COAL 6 SMALE continuous 6337 - 6340 SANDS granules an contains the become mo are disrupt slight adou 6340 - 6342 Interbi strongly but clean mc ripple marks	one (3"), f-vc., poorly sorted, subong- d por /perm, fairly strong adour, no f (134) blk, shiny, frectured underlain is all gy with fine, slightly wavy, fairly paralled laminae STONE, gy-br.gy, f-m with some d thin coarse layers, subong-r, mod. se in wavy shaly, carbonaceous stringers where the ed by burrowing. Good por /perm r, no fluor. edded SHALE and fine SANDSTONE rowed at top, burrows infilled with sand. Snale laminae very wavy—some Sand interbeds thicker at base	Swerten by hier
5	~ v	51. odour 4-0-c? \$356'2	ripple marks 6342-6351 SANA and mv o Some thin o parts: son	Sand interbeds thicker at base DY SILTSTONE, sand filled burrow gtz grans in silty shale matrix was beds. Becomes quite sandy me wavy shale laminae with i'bedouse.	%
64		•	carbonaceo 6354''2-6355 CO 6355-6356''2 Sh streaks	NDSTONE f m, gy, small burrows, us, far por perm, sl. odour no flue AL siry ALE, br gy, v. carbonaceous, coaly LY SANDSTONE, m-v.c., ourrowed	2/
7.			6359 6364 SAA Subang - C.	nale laminae common, silty Floor, or 10570NE, m-v.c., poorly sorted, v. good por perm V. strong s odour, yellow-white fluor, rapid	

WAXED SAMPLE 6364

Analyses 6338 39, 40, 52, 58, 59, 60, 6 62, 64 First oil at 6356 'z

CORE DESCRIPTION

1 (cont/d) Core No.

Interval Cored		ft.,	Cut ft., R	ecovered	ft., (%) Fm.	
Bit Type		, Bit Siz	e in.	., Desc. by	Date	
Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)		Descriptive Lithology	
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REMARKS:

CORE DESCRIPTION

Core No. 2

WELL: BREAM-3

Interval Cored 6395-64-14 ft., Cut 40 ft., Recovered 26 ft., (53 %) Fm. LATROBE

Bit dulled.

Bit Type VIRISTENSEN C-20, Bit Size 85/16 in., Desc. by Bruce MCKey Date 25-11-69

Coring	oth & g Rate n./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
	6395			6395 - 6400	SANDSTONE M-VC, poor - mod sorting, suba
5	10				subr, some thin shale laminae burrowed in part, ve
		· v			good por perm, frisble petroliferous odour, whit
		=			fluor.
	6460			6400 - 6406	: SANDSTONE, f-m, fair-good sorting,
+ +					carbonaceous streaks, good por perm, stier.
		-			naturi goal filmi
)- 			6406 - 3.4/	SANT STONE, brigy, v.f-c, poorly sorte
	6405				abundant carbonaceous and shaly streaks
		V 🕪	1		with way provated facily continuous laminae
++				***	burrowed, disrupted 'aminae at top. Weak
		= ~			fluor v. sl. odour.
1-4	6440			G410-1512	the state of the s
-}-}	_	11/20 -			sha'e arringe at for up to 200), v. wary,
++		-			disrupted. Carponaceous f-m grained
					with giz pessies at base for perm
╌┼┲┵┼	648	0000000			for to good, strong stour, bright fluor
-H+			1	6415'2 - 64	420'Z NTERBEDDED SHALE / SANDSTON
			1		rending to shaly SANDSTONE at Sase
		-			Some cross sedded stale 'eminae at
	642	2]		sace fairly continuous at top; disping
-#		\	7		laminae up to 5°, v. cartonac eous
		/		6420'2 -21	INTERBEDDED SHALE SANDSTONE
# #		.] \ /			low per v milaceous, non care cement
	G42.	s \ /			
				6421-44	No recovery
		_			
	+++	$\frac{1}{2}$			
+	43	† / \			
		1/			
		4/ \	\		
	24.2		\bigvee		
REMA	RKS:	7	ALY M	10LOGY SA	MPLE 6418
			· <u>·</u>		6398'z 6411

CORE DESCRIPTION

Core No. 2 cont'd)

WELL: BREAM - 3

PAGE 2 of 2 4

Interval Cored

ft., Cut

ft., Recovered

ft., (%) Fm.

it Type		Bit Size	Э	in., Desc. by	Date	
Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)		Descriptive Lithology	
6435						
	Λ		Andrews			
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	/ \					
6444						
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REMARKS:						
						5 S S S S S S S S S S S S S S S S S S S

CORE DESCRIPTION

Core No. 3

WELL: BREAM-3

Interval Cored 6444-6469 ft., Cut 25 ft., Recovered 20 ft., (80 %) Fm. LATROBE

Bit Type CHRISTEINSEN C-22 Bit Size

8516 in., Desc. by Bruce Mckay Date 26-11-69

Dep Coring (min.	g Rate	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
	6444			6444-48 SILTSTO	DNE -rsy, v arbonaceous some
7 4	6 8 45	~~~~		ture y disemmi	pated pyrite aggregates ve que
		~~~~~		embedded in	silty shale matrix some v thin f. ss
		000000			ally flat parallel laminae, sl. wary
-	5	~~~			ale cross bedding
		··· ··	1	6-148 - 48 2 SAM	VDSIGNE e-pebble gtz detritus,
		<i>~~~</i> ♦			r ny maceous silty mornix, friable
		~~~		2	n, streng octour brown strain yellow
++	55	~~ ~~			des evaque cut
	\square	~~v~~~	1		-157 CNE with villing intercalated
-	- - - -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			ds. Coaly in part, structures on
++	+++-	**************************************	1	small scale; sc	cour marks, cross bedding disrupted
	60	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·	1	Cody at 1450. 3" misand will
	-	~ ~ ~ · · · · · · · · · · · · · · · · ·	4		215,22 - 1.0 11.01
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		9	TSTONE, burrowed with i bedded f.
		******			and 30% m-c gtz gr. randomly
	-     6			embedded.	RBEDDED SILISTONE and SILTY
					E, strongly burrowed in part,
					us silt laminae disrupted, no flu
	6469		4		Y INTERCALATED SILTISTENE
				1	si burrowed small scale
					ry ficatures, C. sand right of
		-			incessor, no floor
		-			
		1		6464-69 No re	covery
-					
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		-			
					5.73
REMAR		1/	A. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	torque:	

Pyrite not uncommon throughout core

### **CORE DESCRIPTION**

Core No. 4

WELL: BREAM 3

Interval Cored 10,832 -57 ft., Cut 25

ft., Recovered 20

ft., (80 %) Fm. LATROBE (4.K.)

Bit Type CHRIS. C:20, Bit Size 73/4"

in., Desc. by FEM

Date 4-1-70

	Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
/ (	5 0		FL+	10,832-34	SS, LTGY, F.M, PREDOM CLR &
-			Cut		FROSTED SUBROO-ROD BIZ GRAINS WITH
1			.,		APPROX 5% WH FELDSPOR & TR DK GY CHERI
5		22			IN A WH CLAY MATRIX, TR PYRITE &
-					MUSCOUTTE, IRREG., MOSTLY DISCONT.
ŀ			ч		511 LAMINAE WITH CHERENT RIPPLES NEAR B.
			"	10.834 - 34.	5 SS AA, UF-F INTERLAM. WITH DIC BRN
0			''		CARBON. SH , SOME CHRRENT RIPPLES.
-			nt .	10.834.5-36.	5 VERY IRREG. 3"- 4" BEDS OF SH DA E
ł			1		55 AA, M. CSE, SLUMP STRUCTURE.
5			ч	10.5136.5-38	5 SSAD UPPER 4" IS UCSE-GRANULE,
٠		9 9 9			REMAINDER IS M - UCSE, F & SORTED
			t	10 838.5-39	SHAR, TWO 1/2" LAYERS WITH GTZ
ł					GRANGLES AND LT BEN SH FRAGS.
_			9	10 879-39	5 INTERNAM. SH & FG SS AA , CHERENT
0		2000000			RIPPES
-				10 8395-4	1 SS DA, F-M, DISCONT. SUB-PARALEL
-				1.94 62 1.0	Sa Laminae
55		$\times$		10 841 - 43	SSAA, FG, 1"-2" BEDS ALTERNATING
				10,011. 7-	WITH 1/2"-1" INTERLAM. SHE'SSAA
-					SCATTERED GRAHULES OF GTZ CURRENT RIPE
l				10,843-45	,
l				10,043 13	ARE 4" - 6"
				10 845-48	
				/ -	SH LAMINAS CHRRENT RIPPLES, GRADES 4P
ł				1	10 M - USE WITH SOME GRANULES.
				1	ALTERNOT. 4" 6" BEDS OF M-CSE SS AA
				10,848-37-1	
ł					WITH SOME GRANULES AND CSE - GRANINIE
ł					SS AA, OCCUSION. THIN IRREG CARBON:
I					SH LAMINAE, CHAY MATRIX IS SLI CALCOR
ļ				10,8517-52	SH, DK BEN, CARBON, SLI MICAC, WERN FIR
Į					WITH IRREG OSTL GRANGLE LAYERS AND
	REMARKS:			10,852-57	SCHITERED SS BLEBS.

4. PALYNOLOGY & MICROPAL.

MTERPRETATULE eview of Bream-2

Palynology of Bream-3 and Review of Bream-2

Ву

P.R. Evans & Robin D. Mulholland

Palyn. Rept. 1970/5

March, 1970.

### INTRODUCTION

Sidewall cores and cuttings from Bream No. 3 were examined during December 1969 and February 1970.

Whereas a close match with the sequence in Bream No. 2 through the N. goniatus and upper M. diversus was obtained, the better data from around the top of the T. lilliei Zone in Bream No. 3 necessitated revision of the L. balmei/T. lilliei boundary in Bream No. 2 (Palyn.Rept. 1969/7). Revision is based on direct comparison of assemblages, separation from T. lilliei of a species in Bream No. 2, swc 10, 9430 feet which had previously been assigned to lilliei, and examination of previously unreported assemblage from swc 8, 9585 feet.

The following summary lists determinations from both Bream No. 2 and Bream No. 3. Documents concerning Bream 2 based on Palyn. Rept. 1969/7 should be corrected accordingly.

		3	SUMMARY			.•		
		BR	EAM-2	BREAM- 3				
Zone	Samp	<u>1e</u>	Depth (ft.)	Samp	<u>le</u>	Depth (ft.)		
N. asperus	core		6138		13	6215		
	11	7	6298	11	10	6365		
•	ŧŧ	8	6340	11	4	6447		
•	swc	8	6377	"	3	6574		
	**	5	6519½	••	2	6628		
P. asperopolus	swc	2	6652	swc	1	6700		
Hann M. diwaraya	swc	20	6965	ನಿಕ್ಕಳ		•		
Upper M. diversus	- II	27	7142					
•		-	, <u> </u>					
M. diversus undiff.	swc	24	7422			·		
M. diversus or L. balmei	swc	23	7612					
L. balmei	swc	22	7675					
De Darmer	11	20	7932					
	**	19	8082			•		
	**	16	8320					
	<b>F1</b>	15	8442					
·	11	16	9248	swc	10	9255		
•	11	12	9260	11	8	9578		
	11	10	9430	11	7	9606		
•	**	8	9585	11	6	9873		
				11	5	10068.		
Indeterminate	swc	2	9989					
T. lilliei	swc	8	9991	SWC	4	10322		
tion the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	**	11	10262	11	3	10365		
	11 -	5	10520	. 64	2	10665		
	**	7	10522	core		10852		

INTERPRETATIVE

10643

core 14

10964

BY David Taylor

WELL NAME BREAM -3

DATE 19/4/71

ELEV. -199'

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MIOCENE	T Alternate	<u> 4600</u>	0		4950	<u> </u>	
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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 Complete assemblage (low confidence).
- 4 Cuttings Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

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COMMENTS: T.D. 11012"/9.335)

RATINGS:

- O; 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 spores 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	RECORDE	BY:		A.D.Partridge.	DATE	JUNE	THE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE ST	ي معرد
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DEPTH (FT)	SAMPLE TYPE	PRESER- VATION	DIVERSITY	SPORE/POLLEN ZONE	DINOFLAGELLATE ZONE	CONFIDENCE LEVEL	ENVIROMENT
6215	SWC 13	Fair	Moderate	M. diversus	Indet	4	Marginal marine
6365	SWC 10	Fair	Moderate	M. diversus	Indet	4	?Marginal marine
6447	SWC 4	Fair	Moderate	M. diversus	<u> </u>	3	Marginal marine
6547	SWC 3	Poor	Low	Indet	_		, =
6628	SWC 2	Barren	•	••	-	•••	eas '
6700	SWC 1	Fair	V. Low	? P asperopolus		3	***
9255	SWC 10	V. Poor	Low	No younger than L. balmei			Non-marine
9578	SWC 8	V. Poor	Low	No younger than L. balmei		978	Non-marine
9606 '	SWC 7	V. Poor	Low	No younger than L. balmei	_		Non-marine
9873	SWC 6	Barren	-	• <u>-</u>	_	-	-
10068	SWC 5	V.V. Poor	Low	No younger than L. balmei	<del>-</del>		Non-marine
10322	SWC 4	V. Poor	Low	T. lilliei/T. longus	-	-	Non-marine
10365	SWC 3	V.V. Poor	Low	T. lilliei/T. longus	_	•	Non-marine
10665	SWC 2	V.V. Poor	Low	?T. lilliei	-	3	Non-marine
10852	Core	V.V. Poor	Low	No older than N. senectus	-	-	Non-marine
10964	SWC 1	Barren	-	-	-	-	

and GAS DIVISION

3 FEB 1983

E. R. TARRIS

AQUITAINE, PHILLIPS, SHELL

This is an enclosure indicator page.

The enclosure PE902833 is enclosed within the container PE903930 at this location in this document.

The enclosure PE902833 has the following characteristics:

ITEM_BARCODE = PE902833
CONTAINER_BARCODE = PE903930

NAME = Structure Map Top of Latrobe Group - Coarse Clastics

BASIN = GIIPPSLAND

PERMIT =

 $ext{TYPE} = ext{WELL}$   $ext{SUBTYPE} = ext{MAP}$ 

REMARKS =

DATE_CREATED = 31/08/1970

DATE_RECEIVED =

 $W_NO = W566$ 

WELL_NAME = Bream-3

CONTRACTOR = ESSO

CLIENT_OP_CO = ESSO

This is an enclosure indicator page.

The enclosure PE902834 is enclosed within the container PE903930 at this location in this document.

The enclosure PE902834 has the following characteristics:

ITEM_BARCODE = PE902834
CONTAINER_BARCODE = PE903930

NAME = Time Depth Curve

BASIN = GIIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = VELOCITY_CHART
DESCRIPTION = Time Depth Curve

REMARKS =

 $DATE_CREATED = 30/08/1971$ 

DATE_RECEIVED =

 $W_NO = W566$ 

WELL_NAME = Bream-3

CONTRACTOR = ESSO

CLIENT_OP_CO = ESSO

This is an enclosure indicator page. The enclosure PE601484 is enclosed within the container PE903930 at this location in this document.

The enclosure PE601484 has the following characteristics:

ITEM_BARCODE = PE601484
CONTAINER_BARCODE = PE903930

NAME = Well Completion Log Bream 3

BASIN = GIIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = COMPLETION_LOG

DESCRIPTION = Well Completion Log Bream 3

REMARKS =

 $DATE_CREATED = 05/01/1970$ 

DATE_RECEIVED =

 $W_NO = W566$ 

WELL_NAME = Bream-3

CONTRACTOR = ESSO

 $CLIENT_OP_CO = ESSO$ 

This is an enclosure indicator page. The enclosure PE602728 is enclosed within the container PE903930 at this location in this document.

The enclosure PE602728 has the following characteristics:

ITEM_BARCODE = PE602728
CONTAINER_BARCODE = PE903930

NAME = Bream 3 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/P1

 $\mathtt{TYPE} = \mathtt{WELL}$ 

SUBTYPE = MUD_LOG

DESCRIPTION = Bream 3 Mud Log. From Well Summary

REMARKS =

DATE_CREATED = 18/11/69

DATE_RECEIVED =

 $W_NO = W566$ 

WELL_NAME = Bream-3

CONTRACTOR = Exploration Logging Inc

CLIENT_OP_CO = Esso Exploration and Production

Australia Inc