349C01

WELL COMPLETION REPORT

POONBOON #1

OR_342

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ESSO STANDARD OIL (AUSTRALIA) LTD.

349004

COMPLETION REPORT

I WELL DATA RECORD

Date 30/11/72

LOCATION

WELL NAME	STATE	PERMIT or LICENCE	GEOLOGICAL BASIN	FIELD
POONBOON - 1	TASMANIA	T/6P	BASS	N/A

CO-ORDINATES	Lat.	Long.	X	Y	MAP PROJECTION	GEOGRAPHICAL DESCRIPTION
Surface	40°08'15.19" S	145°55'01.29" E	407,742 E	5,566,398N	AMG ZONE 55	60 MILES NORTH OF WYNYARD, TASMANIA PELICAN - 3 LOCATED 9 MILES SSW

ELEVATIONS & DEPTHS

ELEVATIONS	WATER DEPTH	TOTAL DEPTH	Avg.Angle
Ground KB 32' RT Braden Head Top Deck Platform	259'	M.D. 10,715' T.V.D.	STRAIGHT HOLE
	PLUG BACK DEPTH	REASONS FOR P.B.	
	412'	ABANDONMENT	

DATES

MOVE IN	RIG UP	SPUDDED
28/8/72	29/8/72	29/8/72
RIG DOWN COMPLETE	RIG RELEASED	PROD.UNIT - Start Rigging Up
2/10/72	2/10/72	N/A
PROD.UNIT - Rig Down Complete		I.P. ESTABLISHED
N/A		N/A

MISCELLANEOUS

OPERATOR	PERMITTEE or LICENCEE	ESSO INTEREST	OTHER INTEREST
ESSO	HEMATITE PETROLEUM PTY. LTD.	100%	

CONTRACTOR	RIG NAME	EQUIPMENT TYPE
GLOBAL MARINE	GLOMAR CONCEPTION	DRILLING VESSEL

TOTAL RIG DAYS	DRILLING AFE NO.	COMPLETION NO.	TYPE COMPLETION
35.6	232-307	N/A	P. & A.

LAHEE WELL CLASSIFICATION		
	Before Drilling	NEW FIELD WILDCAT
	After Drilling	UNSUCCESSFUL NEW FIELD WILDCAT

B A S I C

A.P. WHITTLE
Geologist

349005

II	INITIAL PRODUCTION TEST				
Date	WELL COMPLETION AS: Oil Well _____ Gas Well _____ Dry Hole _____				
Choke size, inch			Calculated P.I.		
Length of Test			Calculated A.O.F		
Oil, BPD			Perforations		
Water, BPD			Shut-In BHP		
Gas, MCFD			Flowing BHP		
Gas Liquids, BPD			Shut-In Tubing Press		
Gas-Oil Ratio			Flowing-Tubing Press		
Gravity, API			Flowing Temperature		

III	PERFORATING RECORD (Prod.test, Completion, DST, FIT)					
INTERVAL	HPF	TOTAL SHOTS	SERV. CO.	DIFF. PRESS.	PERFORATION FLUID	SIZE AND TYPE GUN

BASIC

E.M. CASE
Engineer

WELL POONBOON - 1

340006

IV	CASING - LINER - TUBING RECORD						
Type	Size	Weight	Grade	Thread	No. Joints	Amount	Depth
20"/30"	Pile Joint						
	20"	91.5	X-52	CIW CC Connector			
				CIW Threaded Conn. box and pin	10	429	
				Rotary Bushing to 16-3/4" casing		291	720
	13-3/8"	72	C-75	Butt.	69	2738	
				Rotary Bushing to 13-3/8" casing housing		294	3032
	9-5/8"	47	N-80	Butt.	218	8469	
				Rotary Bushing to 9-5/8" casing housing		292	8761

V	CEMENT RECORD			
String	20"/30" Pile Jt.	20" casing	13-3/8" casing	9-5/8" casing
Type of Cement	43 sx Aust.'N' 2% $CaCl_2$	785 sx Aust.'N'+ 6% Gel	810 sx Aust. 'N' + 135 sx Aust.'N' + 1% $CaCl_2$	500 sx Aust. 'N' + 1.2% HR-12
Number of FT^3	51	1740	1115	590
Average weight of slurry	16.0 ppg	13.7/15/6 ppg	15.6 ppg	15.6 ppg
Cement Top	-	Surface	1500' Calculated	7000' Calculated
Casing Tested with	-	500 psi	1000 psi	3000 psi
Number of Centralizers	-	6	10	12
Number of Scratchers	-	-	-	-
Stage Collar etc.	-	-	-	-
Remarks	-	350 sx Aust.'N'+ 2% $CaCl_2$ Tail Slurry		

B A S I C

E.M. CASE
Engineer

WELL POONBOON - 1

349007

VI SUBSURFACE COMPLETION EQUIPMENT

DATE COMPLETED _____

Schematic	Equipment Description	Length	Depth

WELL POONBOON-1

VII SAMPLES, CONVENTIONAL CORES, SW CORES

INTERVAL	TYPE	RECOVERED	INTERVAL	TYPE	RECOVERED
785 - 10690	Washed and Dried Cuttings	Every 10-30 ft.		Sidewall Cores	
785 - 10690	Unwashed Sacked Cuttings	Every 10-30 ft.	8788-6200	Gun #1	Shot 30 Rec.30
			8560-3088	Gun #2	Shot 30 Rec.30
			10692-9699	Gun #3, 4	Shot 43 Rec.31
785 - 10700	Canned Cuttings	Every 100 ft.			
	Conventional Cores				
6047 - 6432	Core #1	Cut 25' Rec. 24'			
8096 - 8118	Core #2	Cut 22' Rec. 22'			
8802 - 8827	Core #3	Cut 25' Rec. 25'			
9954 - 9982	Core #4	Cut 28' Rec. 28'			
10691 - 10715	Core #5	Cut 24' Rec. 24'			

VIII WIRELINE LOGS AND SURVEYS Incl. FIT)

Type & Scale	From To	Type & Scale	From To
ISF-SCT (2" & 5")	8806 - 3028	FIT #3	10181
	10708 - 8759	FIT #4	9727
IES (2" & 5")	10499 - 8763	FIT #5	10470 Mud Run
GR-FDC-CNL-Cal (2" & 5")	8791 - 5700 (GR-Cal to 3028)	FIT #6	10000
		FIT #7	10427
GR-FDC (2" & 5")	10424 - 8758	FIT #8	10680
	10691 - 9950		
SNP (2" & 5")	10714 - 9600		
HDT	8789 - 5700		
	10691 - 8756		
Velocity Survey			
FIT #1	8760		
FIT #2	10434		

B A S I C

B. McKay/A. Whittle
Geologist

NOTE: No electric log picks are shown for the interval below the top of the Eastern View Group. Variations in lithology are caused by localised depositional environments which cannot be correlated on well logs. Therefore, correlations are based on a combination of spore-pollen zones and seismic markers which may not relate to unique well log events.

WELL POONBOON-1

349009

IX FORMATION TOPS/Zones

NAME	Tops		Gross Interval (ft)	Net Pay (ft).		REMARKS
	M.D.	Sub-sea		Gas	Oil	
Miocene-Oligocene	291	- 259	5465'			Water Depth 259'
"Upper Eocene shale"	5,756	-5,724	451'			
Eocene-Paleocene Eastern View Group	6,207'	-6,175	4508'+			
P. asperopolus (Seismic marker)	6,922'	-6,890'	710'			
Upper M. diversus (Seismic marker)	7,632'	-7,600'	340'			
Lower M. diversus (Seismic marker)	7,972'	-7,940'	708'			
L. balmei (Seismic marker)	8,680'	-8,648'	1970'	10444-50(6')		Well kicked - zone washed out, untested
T. longus (Seismic marker)	10,650'	-10618'				

X GEOLOGIC ANALYSIS (Pre Drilling prognosis Vs actual results)

Pre-Drill: The primary objective of Poonboon-1 was to test the Eastern View section for hydrocarbons on the crest of a closed anticlinal feature in the deeper portion of the Bass Basin. The structure is a large, structurally simple, low relief anticline, trending NE-SE and situated updip and adjacent to the Eocene-Paleocene depocenter. This prospective non-marine clastic section was interpreted to be similar in lithology and depositional environment to that penetrated in Pelican-3. Closure is present throughout the Eastern View section and increases in vertical relief with depth. The structural style of Poonboon suggests that the structure developed by sedimentary drape over a paleo-high which existed prior to L. balmei deposition. Poonboon-1 was programmed to a T.D of 11,000' with an alternate depth of 12,500', if warranted by significant hydrocarbon shows.

Post Drill: All tops in Poonboon-1 came in high to prediction due to the true average velocity being slower than anticipated.

The stratigraphy and lithology was otherwise essentially as expected, although both upper and lower M. diversus intervals were thinner than pre-drill estimates. Abnormal pressure was not predicted, but was encountered at approximately 9300'. The well was plugged and abandoned as a dry hole at 10,715', after the Production Department advised that drilling should cease when 500 psi overbalance could not be maintained with 12 ppg mud. FIT pressure data indicated that pore pressure at 10,680' is 11.2 ppg mud weight equivalent.

The only show recorded in Poonboon-1 was when the well "kicked" at 10,463' with a mud weight of 10.2 ppg. Log analysis indicated that the basal 6' of a sand interval from 10,416' - 50' may be hydrocarbon bearing. The 6' zone is badly washed out and no tests were attempted but two FIT"s at 10,434 and 10,427 recovered 21000 cc fresh water with 1.4 cf and 1.1 cf of gas (probably solution gas). It is interpreted that the excellent mud log show during the kick came from 10,444-50 trapped locally beneath a 3' coal bed.

The reservoir quality of the sandstone beds within the zone of abnormal pressure was good. Individual sandstone beds up to 60' thick have porosities of 15 - 23% and permeabilities up to 100 millidarcys. The sandstone quality and abaundance throughout the Eastern View appears ideal for reservoiring hydrocarbons and since all other contributing parameters appear favourable, there is no obvious reason for Poonboon-1 being a dry hole. However, the lack of success may be related to migration history.

INTERPRETATIVE

Bruce McKay

S49010

BASIN BASS DATE October 16, 1972.

WELL NAME POONBOON-1 ELEVATION + 32

AGE	PALYNOLOGIC ZONES	HIGHEST DATE					LOWEST DATA				
		Preferred Depth	Rtg	Alternate Depth	Rtg	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
OLIGO-MIOC.	T. bellus										
	P. tuberculatus	3450	1				4940	1			
EOCENE	U. N. asperus	5250	1				5550	1			
	L. N. asperus	5600	1				7200	1			
	P. asperopolus	7300	1				7602	1			
	U. M. diversus	7800	1				7800	1			
	L. M. diversus	7960	2	8250	1		8700	1			
LEO-CENE	L. balmei	8788	1				10608	1			
	T. longus	10654	1				10715	1			
LATE CRETACEOUS	T. lilliei										
	N. senectus										
	C. trip./T.pach.										
	C. distocarin.										
	T. pannosus										
EARLY CRETACEOUS	C. paradoxa										
	C. striatus										
	U. C. hughesii										
	L. C. hughesii										
	C. stylosus										
Pre-Cretaceous											

INTERPRETATIVE

COMMENTS: Lower N. asperus B, 5600 (1) to 6525 (1); Lower N. asperus A, 6600 (1) 7200 (1)

The samples between 7906 to 8118 ft. contain distinct assemblages which in some wells have been referred to the Upper M. diversus.

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 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 RECORDED BY: A.D. Partridge DATE 16th October, 1972

DATA REVISED BY: _____ DATE _____

FORM No. R200 4/71

Form R 193 3/71

BASIN BASS BY D.J. TAYLOR

WELL NAME POONBOON-1 DATE Oct. 6, 1972 ELEV. + 32

349011

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
MIOCENE	A						
	Alternate						
	B						
	Alternate						
	C						
	Alternate						
	D_1						
	Alternate						
	D_2				2930	3	
	Alternate						
	E	2990	3		3550*	4	
	Alternate	3088	0		3088	0	
	F	3450*	2				
	Alternate						
	G						
	Alternate						
	H_1						
	Alternate						
	H_2						
	Alternate						
OLIGOCENE	I_1						
	Alternate						
	I_2						
	Alternate						
	J_1						
	Alternate						
	J_2						
	Alternate						
EOC.	K						
	Alternate						
	Pre K	6200	1		6200	1	

* Based solely on benthonic foraminifera

Planktonic foraminifera are either absent or represented by single non-descript species in SWC's below 3088 feet. Rotary cuttings are heavily contaminated by down hole cavings and exotic mud contamination.

INTERPRETATIVE

COMMENTS:

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).

Date Revised _____

By _____

OFFSHORE 13

349012

BASIN BASS DATE March 30, 1973

WELL NAME POONBOON-1 ELEVATION +32 feet

AGE	PALYNOLOGIC ZONES	HIGHEST DATA					LOWEST DATA				
		Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
OLIG-MIO.	P. tuberculatus	3450	1				4940	1			
EOCENE	U. N. asperus	5250	1				5550	1			
	M. N. asperus	5600	1				6525	1			
	L. N. asperus	6600	1				7200	1			
	P. asperopolus	7300	1				7602	1			
	U. M. diversus	7800	1				7800	1			
	M. M. diversus	7960	1				8118	1			
	L. M. diversus	8250	1				8700	1			
PALEOCENE	U. L. balmei	8788	1				8980	3	8823	1	
	L. L. balmei	9050	3	9957	1		10,608	1			
	T. longus	10,654	1				10,715	1			
LATE CRETACEOUS	T. lilliei										
	N. senectus										
	C. trip./T.pach.										
	C. distocarin.										
	T. pannosus										
EARLY CRETACEOUS											
PRE-CRETACEOUS											

COMMENTS:

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.

DATA RECORDED BY: A.D. PARTRIDGE DATE October, 1972

DATA REVISED BY: A.D. PARTRIDGE DATE March, 1973

FORM No. P-315 12/72

349013

amdel
The Australian Mineral Development Laboratories

Flemington Street, Frewville, South Australia 5063
Phone 79 1662, telex AA82520

OFFSHORE 13

Please address all correspondence to the Director
In reply quote: 3/178/0

20th October, 1972.

Esso Australia Pty Ltd
GPO Box 4047
SYDNEY NSW 2001

Attention: Mr. A.P. Whittle

REPORT MP 1568/73

YOUR REFERENCE:	Service Order 17162
MATERIAL:	One rock
LOCALITY:	Poonboon No. 1 , Core 5
IDENTIFICATION:	10691'
DATE RECEIVED:	6/10/72
WORK REQUIRED:	Petrography and identification of clays

Investigation and Report by: Dr. B.G. Steveson

X-Ray Diffraction by: Dr. R.N. Brown

Officer in Charge, Mineralogy/Petrology Section: Dr. K.J. Henley

for F.R. Hartley
Director

EXAMINATION OF ONE SANDSTONE FROM POONBOON NO. 1

1. PETROGRAPHY

Sample: 10691' : TS C8324

Location:
Poonboon No. 1, Core 5

Rock Name:
Argillaceous sandstone

Hand Specimen:
A pale, buff-coloured rock with a massive habit. The rock is a fine-grained sandstone and is moderately to poorly friable.

Thin Section:
An optical estimate of the constituents gives the following:

	%	
Quartz	70	
Feldspar	2- 3	
Lithic fragments	5- 7	
Voids	5-10	(approximately)
Clay matrix	15	
Chert	Trace	
Carbonate	Trace	
Mica	Trace -1	
Opaques	Trace	
Zircon	Rare	

The rock is a fine to medium-grained sandstone with an argillaceous component as well as a moderate proportion of lithic material. Evidence of solution and compaction is widespread.

Quartz and quartzite grains are the predominant component of the detrital fraction; the grain size ranges from approximately 0.08 to 0.4 mm with a mean of 0.2-0.25 mm. Most grains are about sub-angular and many have only moderate sphericity. Both these features may be due, in part, to resorption and/or deformation but are also likely to be largely inherited from rather immature detritus material. Quartz grains show both plain and undulose extinction and 'common' (plutonic) quartz is abundant. A few chert grains and composites (of metamorphic or ?vein quartz) are present aswell.

Thin Section Cont'd:

Of the feldspars, both microcline and sodic plagioclase are present; the grain size is similar to that of quartz but some angular (?subhedral) grains were noted. Many plagioclase grains are altered and contain small specks of clay, quartz and other alteration products.

Lithic fragments consist mainly of fine-grained quartz-clay or quartz-mica rocks. Some of the former are undoubtedly of volcanic origin, most of the mica-bearing fragments appear to be metamorphic. Lithic grains have clearly been less rigid than the quartz and show evidence of extreme deformation. In a similar way, detrital mica flakes also have been bent and/or broken during compaction.

This detritus occurs in a somewhat sparse argillaceous matrix of brown clay and fine-grained quartz. In some places this matrix is indistinguishable from argillaceous lithic material.

Texturally the rock retains its clastic aspect but modification by diagenetic events is widespread. Although tangential grain contacts are prevalent both sutured and concavo-convex types were noted. The packing - as expressed by the number of grain contacts per grain - is also higher than would be the case in an unmodified sediment. As well as dissolution of silica (shown by suturing), re-deposition is indicated by the presence of overgrowths of quartz; however, this has not been a quantitatively important aspect of the lithification and diagenesis of the rock.

Despite compaction of the rock, pore space is abundant and most visible voids are more than 0.05 mm in diameter. As far as can be distinguished in thin section, the voids are interconnected over large distances.

2. X-RAY DIFFRACTION

2.1 Procedure

The sample was crushed mechanically to pass 60#, and a weighed amount was dispersed in water with the aid of deflocculants, using a mechanical blender, and allowed to sediment for separation of a representative -4 μm fraction (a -2 μm fraction is usual for clay mineral work, but in clay-deficient samples such as this sandstone a -4 μm fraction is taken, to provide more material). The resulting -4 μm dispersion was used to

2.1 Cont'd

provide material:

(i) for a powder diffraction photograph, and

(ii) for the preparation of two oriented samples on ceramic plates, one treated with Mg^{++} ions and the other with Mg^{++} and glycerol. These two oriented samples when air-dry were examined in the X-ray diffractometer, and the first sample was re-examined at 130°C.

2.2 Results

The -4 μm fraction, which made up approximately 6% of the crushed material, consisted dominantly of crystalline kaolinite, with moderate and approximately equal amounts of chlorite and mica. Quartz was present at roughly the 10% level. No swelling clays were found.

amw:3

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COUNTY	FIELD	STATE	SECTION	TOWNSHIP	RANGE	LOCATION	WELL NO.
	Poonboon #1	Tasmania				349017	1

CONTRACTOR	RIG NO.	OPERATOR	TOOLPUSHER	SALESMAN
Global Marine Conception		Esso - McClean, Buckles + Westbrook		

SPUD	UNDER SURF.	UNDER INTER.	SET SAND ST.	REACHED T.D.	PUMP NO. 1	LINER	PUMP NO. 2	LINER	PUMP POWER	MUD
29-8-72	7-9-72	23-9-72			N-1300		N-1300	6 3/4		

DRILL PIPE	SIZE	TYPE	O.D.	NUMBER	O.D.	I.D.	LENGTH	DRAWWORKS POWER
5" G E	TOOL JOINTS 6 1/4	4 1/2 IF		DRILL COLLARS 15	7 3/4	3		1635 N

NO.	SIZE	MAKE	TYPE	JET 32ND IN	SERIAL	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM DRLG. HRS.	WT. 1000 LBS.	R P M	VERT DEV.	PUMP PRESS	PUMP OPERATION	SPM 1	SPM 2	MUD WT.	MUD VIS.	MUD W.L.	DULL. COND. T	DULL. COND. B	DULL. COND. G	DULL. COND. OTHER	FORMATION REMARKS
RR 1	26"	HTC	OSC3A-J	R	JV554	785	494'	5	99	5	0/20	120/150		800	P	60	60	Sea water			2	2			
2	15	HTC	OSC3A-J	3-14	ER798	3085	2300	19½	118	24½	20/20	150/200		2900	P	65	65	4	✓		2	2	1		
DR	17½	Eastern	KWA Lockomatic Run Above Bit #2																						
3	12¼	HTC	X3A	3-18	UK67844	3540	465	8	58	32½	60	150/200		2900	P	65	65	✓	✓	✓	1	1	0	½ All	Cones off
4	12¼	HTC	XD7	3-18	CK957	3713	173	2½	69	35	20	200		3000	P	65	65	82	40		5	1	1	Ream	On Junk
5	12¼	HTC	X3A	3-18	UK5514	5698	102	14½	101	54½	50	200		3000	P	52	52	99	38		8	7	1		
6	12¼	HTC	X3A	3-16	UK5513	6407	709	8¼	86	62¾	50	200		3300	P	44	44	10.0	44	—	8	8	½	Cr.	Hard
C-1	8½	Christ	C-23	—	4412CA	6439	32'	3½	6.4	Cone 3½	10	50		2250	S	26	—	12.0	38	—		0	0	½	Cr.	Cone.
7	12¼	HTC	XDG	14+12+16	UK5777	7233	601	8¾	70	71½	60	175		3300	P	47	47	9.9	44	—	2	2	½	26	
8	12¼	HTC	J-33	3×16	HB883	8396	1363	39½	27	111	50	50		3300	P	43	43	12.1	45	—	3	1	1	62	Broken Hard
C-2	8½	Christ	C-22	6-12	4430CA	8111	22	4	5.5	12.1	18	50		800	S	25	—	12.1	45	—		8	0	½	Cr.	Cone
9	12¼	HTC	J-33	3×16	HB7220	8319	201	9¾	20	131	70	80/110		3300	P	42	42	12.1	47		6	2	1		
RR 8	12¼	HTC	J-33	3×16	NB663	8832	This Run 483 Accum 13446	This Run 29½ Accum 67¾	This Run 16.5 Accum 22	160¼	55	50		3300	P	42	42	12.1	41	—	4	6	1	Broken	Hard
C-3	8½	Christ	C-20	FO	4417CA	8827	25	4¾	5	16.5	18	55		700	S	25		10.1	43					95%	Good
RR	12¼	HTC	XD7	3-18	Re Run #1	Reamed	Rathole	+	Circ'd	to	log			3000	P	45	45	10.2	44		5	1	1		
10	8½	HTC	XDV	2-13 1-14	UK9638	9006	179	13¼	13.5	178½	35	90/100		3000	P	35	35	10.1	41	6.0	6	4	T		
11	8½	HTC	J-33	3-11	MM901	9954	948	61¼	15.3	39½	42	50		3000	P S	50		10.2	42	5.7	1	1	T		
C-3	8½	Christ	C-20		4427	9992	28	5	5.6	244½	22	60		750	S	30		10.3	40	5.4				90%	Good
12	8½	HTC	J-33	3×11	MF446	10690	708	51	14	295½	40	55		3000	S	50		12.2	45	5.2	1	1	T		
C-3	8½	Christ	C-20	—	4427CA	10714	24	6½	4	302	20	50		825	S	25		12.4	47	5.4				80%	Good

HTC 557 D

349018

ESSO STANDARD OIL (AUSTRALIA) LTD.

CORE DESCRIPTION

Core No. 1

WELL: POONBOON-1

Interval Cored 6407-32 ft., Cut 25 ft., Recovered 24 ft., (96 %) Fm. EASTERN VIEW

Bit Type Christensen C-20, Bit Size 8 15/32 in., Desc. by Bruce McKay Date September 6, 1972

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
0 5 10 6407			6407 - 6410	3' INTERLAMINATED SILTSTONE AND SHALE. Siltstone is light grey - grey, silt - very fine sandstone, even grained, slightly friable - firm, micaceous, non calcareous, tight, poor - fair visible porosity and permeability, no fluorescence. Interlaminated with grey to dark grey thin shale streaks, carbonaceous. Bedding parallel semi-continuous slightly wavy - contorted, small scale cross bedding, ripple marks and burrows.
		No Shows	6410 - 6412	2' SHALE, dark grey, firm - hard, homogeneous, massive.
			6412 - 6431	19' INTERLAMINATED SILTSTONE AND SHALE, as above.
6432			6431 - 6432	1' No Recovery

REMARKS: Barrel jammed

Samples for overburden Ø/K analysis 6408, 6418

Palynology samples 6410, 6412, 6420, 6427

5 cm

349019

ESSO STANDARD OIL (AUSTRALIA) LTD.

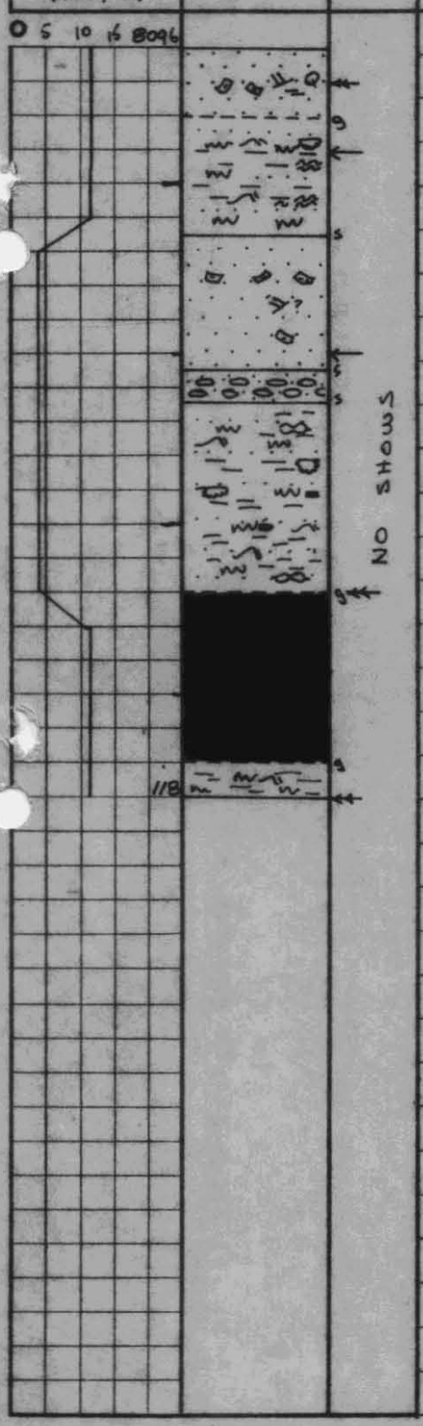
CORE DESCRIPTION

Core No. 2.

WELL: POONBOON #1

Interval Cored 8096'-8118' ft., Cut 22 ft., Recovered 22' ft., (100 %) Fm. Eastern View

Bit Type Christensen C-22, Bit Size 8 15/32 in., Desc. by Mebberson Date 9 September 1972



Depth & Coring Rate (min./ft.) | **Graphic (1" = 5')** | **Shows** | **Interval (ft.)** | **Descriptive Lithology**

8096'-98' SANDSTONE: Quartzose, noncalcareous, fine to coarse grained, vaguely graded in units (9") fining upwards, poorly sorted, subangular to subrounded. Contain brown shale clasts and wavy discontinuous bands (⅛") at top of grading. Faint cross bedding in coarser sand. Grades into:

8098'-8101'6" INTERBEDDED SAND, SILTSTONE & SHALE:
Sandstone — quartzose, moderate sorting, subrounded, occurring in bands of coarse to very coarse and fine to medium grained, occasionally carbonaceous.
siltstone — sandy, light brown, firm in bands up to 6".
shale — dark brown to pink-brown, firm in thin (⅛") bands.
Shale and siltstone & sand interfaces exhibit wavy parallel continuous & discontinuous bedding, slumping, small scale rippling & traces of scouring. Sharp contact with:

8101'6"-8105'6" SANDSTONE: quartzose, very fine to medium grained, occ. coarse, well sorted, subrounded, fm to hard, massive. Vague horizontal bedding, sl. carbonaceous, very vague cross bedding?, layers of pink-brown firm shale clasts. Sharp contact with:

8105'6"-8106'6" CONGLOMERATE: Flat pebbles up to 1" x ¼" of brown & pink-brown shaley mudstone, in layers, in a matrix of medium grained, moderately sorted quartz grains. Sharp contact with:

8106'6"-8112' INTERBEDDED SHALE, SILTSTONE & SANDSTONE:
Shale: dark brown, finely laminated, firm to hard up to 6" thick.
siltstone: pale brown, sandy, firm, carbonaceous, up to 6" thick
sand: occasional thin bands, medium grained, moderately sorted, subangular, quartzose.
Exhibits: large ripples, scouring, sand bed images.
Grades into:

8112'-8117' COAL: Black, conchoidal fracture, shiny. Grades into —

8117'-8118' SHALE & SILT: as above.

REMARKS:

Barrel jammed after cutting 22'

← Overburden core analysis sample.

⇐ Palynology chips taken.

5 cm

349020

ESSO STANDARD OIL (AUSTRALIA) LTD.

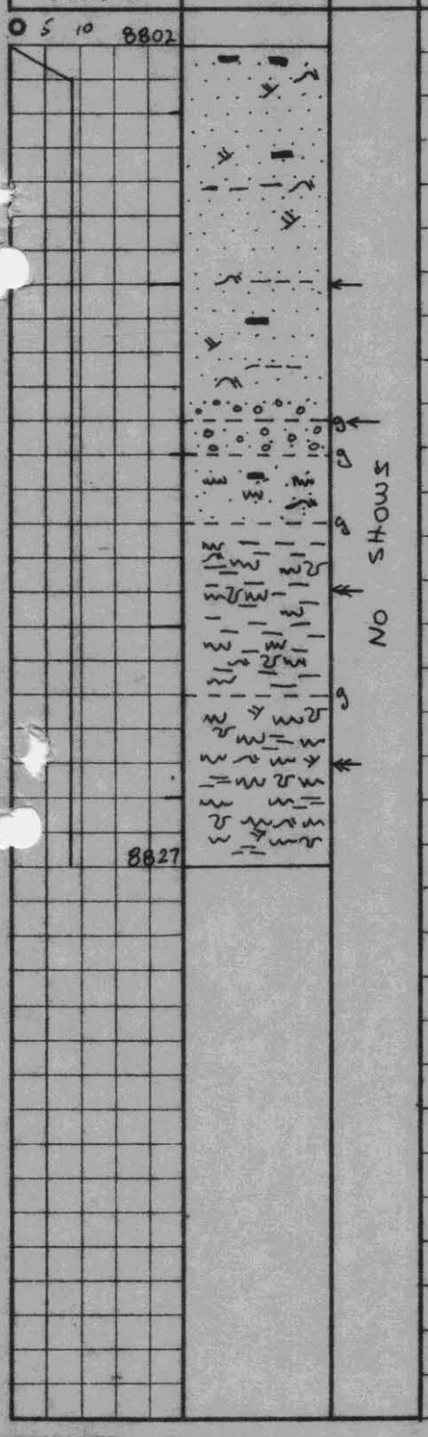
CORE DESCRIPTION

Core No. 3

WELL: Poonboon 1

Interval Cored 8802 - 27 ft., Cut 25 ft., Recovered 25 ft., (100 %) Fm. Eastern View

Bit Type Christensen C-20, Bit Size 18 15/32 in., Desc. by Mebberson Date 12 Sept. 1972



Interval (ft.)	Descriptive Lithology
8802'-14'	SANDSTONE: Quartzose, grey-white, very fine to medium grained, generally fine grained, well sorted, angular to subrounded, well consolidated, occasional coal, brown shale stringers. Units up to 10" of fine, very fine or fine-medium grained lithology, often separated by thin shale. Small (1/8") pebbles near base. Very carbonaceous near top. Small scale cross bedding and ripples. Low ϕ & K.
8814'-15'	SANDSTONE: Generally as above, with abundant coarse sand to pebbles up to 3/8" diam, poorly sorted, gen quartz with some shale. Carbonaceous stringers.
8815'-17'	SANDSTONE: Silty to very fine grained sandstone generally as top 12' of core.
8817'-22'	INTERBEDDED SILTSTONE & SHALE: SILTSTONE: grey to grey-brown, firm to hard, carbonaceous. SHALE: dk grey, fissile, firm. Exhibits burrowing and small scale ripples in siltstone and parallel & subparallel horizontal laminations in shale.
8822'-27'	SILTSTONE: Grey-green, shaley, firm to hard. Exhibits burrowing, ripples & small scale x bedding.

REMARKS: ← Overburden core samples.

<< Polynology samples.

5 cm

349021

ESSO STANDARD OIL (AUSTRALIA) LTD. OFFSHORE 13

CORE DESCRIPTION

Core No. 4

WELL: POONBOON-1

Interval Cored 9954-9982 ft., Cut 28 ft., Recovered 28 ft., (100 %) Fm. Eastern View ?

Bit Type Christensen C-20, Bit Size 8 15/32 in., Desc. by Bruce McKay Date 24 Sept, 1972

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
0 3 6 9 12	9954		9954-59	5' SHALE: dark brown grey, carbonaceous, coal streaks, plant matter common, hard, more fissile between 9958' and 9959'
			Slightly gradational	
		G?	9959-74	15' SANDSTONE: light grey-grey, very fine-medium, silty in part, subangular-subrounded, moderate sorting, firm, clay choked, quartz overgrowths. Non calcareous, slightly carbonaceous, trace mica, chlorite, lithic grains, some coaly and shaly streaks. Minor spotty dull gold mineral fluorescence, no cut. Bedding wavy, some distorted: some cross bedding, scour and fill and root mottling.
		No Shows	Sharp	
		S	9974-82	8' SHALE: dark grey, hard, carbonaceous abundant plant remains, leaf imprints.
	9982			

REMARKS: Palynology samples @ 9955, 57, 59, 9975, 77, 79, 81

Porosity and permeability analysis every foot from 9960-73.

5 cm

349022

OFFSHORE 13

ESSO STANDARD OIL (AUSTRALIA) LTD.

CORE DESCRIPTION

Core No. 5

WELL: Poonboon - 1

Interval Cored 10,691-10,715 ft., Cut 24 ft., Recovered 24 ft., (100 %) Fm EAST. VIEW

Bit Type C-20, Bit Size 8¾ X 8½ in., Desc. by J.R. BLACK Date 30 SEPT, 1972

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
0	10,691		10,691-91½ Sharp cont.	½' SANDSTONE - TAN WHITE QTZ, W/ FEW DK. GRAINS, FRIABLE TO FIRM, MEDIUM GRAINED, WELL-SORTED, SUBANG/SUBRND., CLEAN GOOD VISUAL ϕ & K, NON CALC., ND FLUOR.
95			10,691½-99	7½' SHALE - DK GRAY, V. SILTY, HARD INDUR., MICAC., CARBONACEOUS, W/ SCATTERED CARBONIZED WOOD & LEAF FRAGS
00			10,699-706	7' SHALE - DRK GR, V. HARD, INDUR. CONCOIDAL FRACT., W/ SCATTERED CARB. WOOD FRAGS., TR MICA.
05			10,706-12	6' SHALE - AS ABOVE W/ PLATTY FRACTURE
10			10,712-15	3' SHALE - AS ABOVE W/ BANDS OF MICA (LARGE BIOTITE FLAKES) AND INCLUDED SCATTERED CRSE/PEBBLY, WELL ROUNDED QTZ. GRAINS & PEBS.
15				

REMARKS: Polynology SAMPLES @ 10,691 10,706

694 709

697 712

700 715

703

5 cm

OFFSHORE 13

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

PAGE 1 OF 2

ATT 30 REC 30

DATE 14/9/72

IES RUN NO 1 SWC RUN NO 1

SERVICE CO. Schlumberger

GEOLOGIST A.J. Mabbarson

WELL POONBOON-1

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS 23
1	8788	¾	shale	Carb.,silty	sl.	grey	soft	-	-	-													Laminated
2	8700	¾	siltst		sl.	wh.gy	soft																Laminated
3	8610	⅜	shale	silty,sl. carb	sl.	gy-wh	firm																
4	8500	½	siltst		-	gy-wh	friable																
5	8400	¾	siltst	carb.sl.shly-		gy-wh	friable																Laminated
6	8300	¾	shale	sl.carb.	-	gy.	soft																
7	8250	¾	siltst	mica sl.sandy	-	wh.	firm																Shale Laminae
8	8200	⅝	siltst	sl.carb.	-	wh.gy.	fri.																
9	8114	¾	sh. siltst		-	wh.gy	fri																Laminated
10	8000	¾	siltst	sl.carb.	-	gy.	fri/fm																
11	7960	½	siltst	sl. carb.	-	gy.	fri/fm																
12	7898	1½	siltst	-	-	pl.bn.	friable																
13	7800	1	sltst	carb.	-	gy-wh	fri.																Laminated
14	7706	⅞	sltst	sl.sandy,carb	-	lt.gy	fri.																
15	7602	⅞	sltst	sl.sandycarb.	-	gy-wh	fri.																Laminated
16	7504	1½	sltst.	carb.shaley	-	bn-wh	fri.																Laminated
17	7406	1½	shale		-	black	fiss.																
18	7340	1½	sh. slst.		-	gy-bn wh.	fri.																Laminated
19	7300	1⅜	shale	v.carb.tr.coal		gy-blk	soft-fiss																
20	7200	⅝	shale		-	gyblk	fiss																
21	7118	1½	shale	sl. carb.	-	gy bn	fiss. -fm.																
22	7004	¾	sh/sltst	sl.carb.	-	gy/lt. gy	fiss. -fm.																
23	6908	1"	sltst.	v. sandy	-	wh.	fri																
24	6800	1"	sltst.	-	-	gy/wh	fri																
25	6718	1"	sltst.	-	-	gy-wh	fri																Laminated
26	6600	1"	sltst.	sl. carb.	-	brn.	fri.																
27	6500	1¼	sh. sltst.	banded	-	dk.bn. gy-wh	fri																Laminated
28	6418	1½	shale	silty	-	gy-gn	fri																Laminated

ESSO BASIC DATA

FORM R 257 3/72

349023

WELL POONBOON-1
GEOLOGIST A.J. Mebberson
SERVICE CO Schlumberger

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO 1 SWC RUN NO 1

PAGE 2 OF 2
ATT 30 REC 30
DATE 14/9/72

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS 23
29	6310	1½	sltst	glauc??	-	green	fri.																
30	6200	1½	shale	plant remains?	-	dk bn	earthy																

ESSO BASIC DATA

FORM R 257 3/72

349024

OFFSHORE 13

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

WELL POONBOON-1 PAGE 1 OF 2
GEOLOGIST A.J. Mabberson ATT 30 REC 30
SERVICE CO Schlumberger IES RUN NO 1 SWC RUN NO 2 DATE 14/9/72

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS 23
1	8560	¾	sand	-	-	wh.	fri.	vf-m	mod	sa	sl.	-		tr.	pl. bn	min. fluor.							No show on chromotogram
2	8340	1"	sand	-	-	wh.	fri.	vf-f	good	sa-sr	-	-		tr.	pl. bn	min. fluor.							" " "
3	6550	¾	sltst	-	-	bn	fri.																
4	6525	¾"	sh	-	-	dk bn	fiss																Sltst. banding
5	6361	1"	sltst.	sl. sandy	-	gy-gn	fri-fm																
6	6350	1½	siltst	sl. sandy	-	gy-gn	fri-fm																
7	6224	¾	sltst	sl. sandy	-	bn	fri.																
8	6210	1⅓	sltst.	sl. sandy	-	bn	fri-fm																
9	6190	1½	mdst.	carb?	-	dkbn.	earthy																Demons Bluff
10	6170	1⅓	mdst.	"	-	dkbn.	"																"
11	6130	1⅓	"	" ?	-	"	"																"
12	6100	1½	"	"	-	"	"																"
13	6000	1⅓	"	"	-	"	"																"
14	5910	1⅓	"	"	-	"	"																"
15	5800	1⅓	"	"	-	"	"																"
16	5784	1⅓	"	"	-	"	"																"
17	5750	1½	slst.	-	very	gybn	fri.																
18	5740	1½	slst	-	"	"	"																
19	5700	1½	mudst.	-	mod.	gy-bn	soft																
20	5650	1"	marl	-	"	pl.bn	firm																
21	5600	1⅓	marl	-	"	bn	fm-fri																
22	5550	1⅓	sltst	-	sl	gy-gn	fm																
23	5250	1⅔	sltst	-	sl	gy-gn	fm																
24	4940	1½	marl	-	"	gy-gn	soft																
25	4650	1½	marl	-	"	"	"																
26	4350	1½	marl	-	"	grey	soft																
27	4046	1⅓	"	-	"	grey	soft																
28	3750	1⅓	"	-	"	"	"																

FORM R 257 3-72

ESSO
BASIC DATA

349025

PAGE 2 OF 30

ATT 30 REC 30

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

IES RUN NO 1 SWC RUN NO 2 DATE 14/9/72

WELL ROONBOON-1

GEOLOGIST A.J. Nebberson

SERVICE CO Schlumberger

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROD PROD 22	REMARKS - GAS 23
29	3450	1½	marl	fossil frag	-	gy.	soft																
30	3088	1½	marl	foss. frags.	-	gy	soft																

BASIC DATA

FORM R 257 3-72

349026

OFFSHORE 13

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

WELL POONBOON-1 GEOLOGIST J. Black SERVICE CO Schlumb. IES RUN NO 3 SWC RUN NO 2 DATE 30/9/72 ATT 30 REC PAGE 1 OF 2

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS C1/C2/C3/C4/C5
1	10692	1"	SS	Qtz. clean	-	wh-lt. gr	fri	M	W	Srd	-	-											0/0/0/0/0
2	10682	1⅛"	SS	" "	-	tan wh	fri	M	W	Srd	-	-											0/0/0/0/0
3	10668	-	NO REC.																				
4	10654	-	NO REC.																				
5	10608	7/8	SH	Sli Carb.	-	Dk.Gr.	Firm	-	-	-													
6	10546	-	NO REC.																				
7	10513½	-	NO REC.																				Pulled off
8	10495	-	NO REC.																				" "
9	10463	½	SH	Silty	-	lt gr.	Sft.	-	-	-													
10	10448	7/8	SS	Qtz,clean	-	tan/wh	Fri.	m/crs.	W	Srd	-	-											0/0/0/0/0
11	10447	1⅜	SS	Qtz.clean	-	tan/wh	Fri	m/crs.	W	Srd	-	-											0/0/0/0/0
12	10445	¾	SS	Qtz.v. carb	-	Wh	Fri	m/vcr.	W	sa/sr	-	-											200/0/0/0/0
13	10443	7/8	SS/coal	Qtz.v.carb	-	Wh.	Fri	m/peb	P	a/sr	-	-											0/0/0/0/0
14	10441	7/8	SS	Qtz. arg.	-	Wh.	Fri	f/m	Mod	sr	15 20%												0/0/0/0/0
15	10438	5/8	SS	Qtz. clean	-	Wh.	Fri	M	W	sa/sr	-	-											0/0/0/0/0
16	10428	¾	SS	Qtz. clean	-	Wh.	Fri	F/M	W	sr	-	-											0/0/0/0/0
17	10420	-	NO REC.																				Pulled off
18	10350	7/8	SH	F. Mica	-	dkgr.	frm.	-	-	-													
19	10327	-	NO REC.																				Pulled off
20	10318	1¼	SH	V. sdy,peb.	-	grn/gr.	mod./soft	crs/pbl.	P	Rd													0/0/0/0/0
21	10306	¾	SS	Calc.Xtal,Arg M		ltgrn	mod/frm	vf/pbl	P	a/sr	25%	-											0/0/0/0/0
22	10226	⅜	SH	Carb.?	-	drkgr.	frm	-	-	-													
23	10181	½	SS	Qtz. clean	-	lt. gr	fri.	f/m	W	sr	-	-											0/0/0/0/0
24	10143	-	NO REC.																				Pulled off
25	10019	-	NO REC.																				" "
26	10000	⅜	SS	Qtz. clean	-	wh.	Fri	F/M	W	sa/sr	-	-											0/0/0/0/0
27	9834	1⅛	Coal	Shly, plty	-	blk.																	3000/12000/0/0/0
28	9828	¼	Silt		Sl.	lt.gr.	Frm	Slt.	-	-													

FORM R 257 3/72

349027

PAGE 2 OF 2 | ATT 43 REC 31 | DATE 30/9/72

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

SWC RUN NO 2

IES RUN NO 3

WELL POONBOON-1

GEOLOGIST J. Black

SERVICE CO Schlumb.

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS C1/C2/C3/C4/C5
29	9739	-	NO	REC.																			
30	9699	½	SS	Qtz. clean	-	Wh.	Fri.	f/m	M	sr	-	-											0/0/0/0/0
31	10668	-	NO	REC.																			Pulled off
32	10654	¼	SH	Platty.	-	Dk Gr.	Frm.	-	-	-													
33	10577	7/8	SH		-	Dk Gr.	Frm.	-	-	-													
34	10546	⅜	SH	Sli. silty	-	Dk Gr.	Frm.	-	-	-													
35	10513½	⅜	SS	Qtz., clean	-	Wh.	Fri.	M	W	sa/sr	-	-											0/0/0/0/0
36	10495	-	NO REC.																				Pulled off
37	10449	5/8	SS	Qtz. clean	-	Wh.	Fri.	f/crs	P	sa	-	-											0/0/0/0/0
38	10442	⅜	SS	Qtz. clean	-	Wh.	V.Fri	f/crs	P	sa/a	-	-											0/0/0/0/0
39	10420	5/8	SS	Qtz. clean	-	Tan/wh	Fri.	f/m	Mod.	sr	-	-											0/0/0/0/0
40	10327	1⅛	Sltst	X Tal Sdy,arg. cal	sli	Lt Grn	Sft.	-	-	-	25	-											0/0/0/0/0
41	10143	½	SS	Slty	sli	Wh.	Sft.	f/slt	P	sr	-	-											0/0/0/0/0
42	10019	⅜	SS	Slty	-	Wh.	Fri	f/m	P	sa/sr	-	-											0/0/0/0/0
43	9739	½	SS	Qtz., clean	-	Wh.	Fri	m	W	sr	-	-											0/0/0/0/0

FORM R 257 3/72

349028

349029

OFFSHORE 13

AGNEW-GO-WESTERN PTY. LTD.
582 St. Kilda Road
Melbourne, Victoria 3004

D of M | A.O. | CG | CC & M | D.S.M.E.
RECEIVED 18 DEC 1972 | Registrar
ANSWERED | E & IL
DEPT OF MINES
REF. No: POON BOON No. 1

ESSO AUSTRALIA LIMITED POON BOON

September 14, 1972

PURPOSE: Obtain subsurface pressures with Amerada gauges run in tandem with Schlumberger Formation Interval Tester.

TOOLS USED: 1 Amerada 11,800 psi element Serial No. 8282-N 12 Hour clock
1 Amerada 8,500 psi element Serial No. 9391 12 Hour Clock

F.I.T. TEST No. 1 @ 8760'

HOURS	PSIG 11,800	PSIG *8,500	REMARKS
1203			Run in hole
1321	4640.77	5056.09	Hydrostatic - Set Packer
1322			Open tool
1323	4622.35	4798.33	
1325	4364.65	4794.04	
1327	3819.14	3815.87	
1329	3831.40	3833.14	
1330	3831.40	3833.14	
1331	3831.40	3833.14	Initial shut in.
1332			Seal chamber - Open Segregator.
1333	2692.83	3587.00	
1335	3678.27	3781.33	
1337	3819.14	3811.55	
1338	3831.40	3828.82	
1339	3831.40	3828.82	Final Shut in.
			Seal segregator
1341			Unseat Packer
	4646.91	4781.14	Final hydrostatic
1346			Come out of hole.

By: Paul Tatterson

*Stylus damaged during test, therefore pressures from the 8500 element are not significant.

AGNEW-GO-WESTERN PTY. LTD.
582 ST. KILDA ROAD
MELBOURNE, VICTORIA 3004

349030

ESSO AUSTRALIA LIMITED | POON BOON | POON BOON No. 1
SEPTEMBER 26-27, 1972

PURPOSE: OBTAIN SUBSURFACE PRESSURES WITH AMERADA GAUGES RUN IN TANDEM WITH SCHLUMBERGER FORMATION INTERVAL TESTER.

TOOLS USED: 1 AMERADA 11,800 PSI ELEMENT SERIAL NO. 8282 12 HOUR CLOCK
1 AMERADA 8,500 PSI ELEMENT SERIAL NO. 9391 12 HOUR CLOCK

F.I.T. TEST No. 1 @ 10,434'

HOURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
2353				RUN IN HOLE.
		5982	5997	HYDROSTATIC
SEPTEMBER 27, 1972:				
0049				SET PACKER.
0050	0			OPEN TOOL.
	2	2301	2372	
	4	1383	1448	
	6	1438	1508	
	8	1328	1599	
	10	1818	1845	
	12	1212	1254	CHAMBER FILLED
	14	5581	5613	
	16	5612	5643	
	18	5612	5647	
	20	5612	5652	SEAL CHAMBER
	22	5581	5639	
	24	5618	5643	
	26	5618	5643	
	27	5618	5643	
		--	6036	HYDROSTATIC

OPERATOR: PAUL TATTERSON

AGNEW-GO-WESTERN PTY. LTD.
582 St. Kilda Road
Melbourne, Victoria 3004

349031

ESSO AUSTRALIA LIMITED | POON BOON | POON BOON No. 1
September 27, 1972

Purpose: Obtain subsurface pressures with Amerada gauges run in tandem with Schlumberger Formation Interval Tester.

Tools used: 1 Amerada 11,800 psi element Serial No. 8282 12 hour clock
1 Amerada 8,500 psi element Serial No. 9391 12 hour clock

F.I.T. TEST No. 2 @ 10,181'

HOURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
0300				Run in hole
0334		5895.88	5874	Initial hydrostatic
0335				Set packer
0336	0			Open tool
	1	4419.86	4385	
	2	5322.91	5288	
	3	5329.07	5288	
	4	5329.07	5288	
	5	5329.07	5288	
	6	5329.07	5288	Seal chamber
				Unseat packer
	8	5889.71	5895	Hydrostatic
0345				Pull out of hole

Operator: Paul Tatterson

AGNEW-GO-WESTERN PTY. LTD.
582 ST. KILDA ROAD
MELBOURNE, VICTORIA 3004

349032

ESSO AUSTRALIA LIMITED | POON BOON | POON BOON No. 1
SEPTEMBER 27, 1972

PURPOSE: OBTAIN SUBSURFACE PRESSURES WITH AMERADA GAUGES RUN IN TANDEM WITH SCHLUMBERGER FORMATION INTERVAL TESTER.

TOOLS USED: 1 AMERADA 11,800 PSI ELEMENT SERIAL No. 8282 12 HOUR CLOCK
1 AMERADA 8,500 PSI ELEMENT SERIAL No. 9391 12 HOUR CLOCK

F.I.T. TEST No. 3 @ 9,727'

OURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
0505				RUN IN HOLE
0552		5636.94	5643	INITIAL HYDROSTATIC
0553				SET PACKER
0554	0			OPEN TOOL
0555	1	4524.16	4618	
	2	4616.21	4618	
	3	4622.35	4618	
	4	4622.35	4618	
	5	4622.35	4618	
	6	4622.35	4618	
	7			SEAL CHAMBER AND OPEN SEGREGATOR
	8	109	51	
	9	377	70	
	10	2295	166	
	11	4561	4411	
	12	4616	4583	
	13	4622	4588	
	14	4622	4588	
	15	4622	4588	
	16	4622	4588	SEAL SEGREGATOR
0611				UNSEAT PACKER
0612		5594	5639	FINAL HYDROSTATIC
0613				PULL OUT OF HOLE

OPERATOR: PAUL TATTERSON

AGNEW-GO-WESTERN PTY. LTD.
582 St. Kilda Road
Melbourne, Victoria 3004

349033

ESSO AUSTRALIA LIMITED POON BOON

POON BOON No. 1
September 27, 1972

PUPROSE: Obtain subsurface pressures with Amerada gauges run in tandem with Schlumberger Formation Interval Tester.

TOOLS USED: 1 Amerada 11,800 psi element Serial No. 8282 12 hour clock
1 Amerada 8,500 psi element Serial No. 9391 12 hour clock

F.I.T. TEST No. 4 @ 10,470'

HOURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
0728				Start to run in hole
0818				Set packer
0819				Open tool

Packer did not seal – mud run

Operator: Paul Tatterson

AGNEW-GO-WESTERN PTY. LTD.
582 ST. KILDA ROAD
MELBOURNE, VICTORIA 3004

349034

ESSO AUSTRALIA LIMITED | POON BOON | POON BOON No. 1
SEPTEMBER 27, 1972

PURPOSE: OBTAIN SUBSURFACE PRESSURES WITH AMERADA GAUGES RUN IN TANDEM WITH SCHLUMBERGER FORMATION INTERVAL TESTER.

TOOLS USED: 1 AMERADA 11,800 PSI ELEMENT SERIAL No. 8282 12 HOUR CLOCK
1 AMERADA 8,500 PSI ELEMENT SERIAL No. 9391 12 HOUR CLOCK

F.I.T. TEST No. 5 @ 10,000'

HOURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
0928				RUN IN HOLE
1006		5803	5814	INITIAL HYDROSTATIC
1007				SET PACKER
1008	0			OPEN TOOL
	2	2889	2900	
	6	3091	3107	
	7	3121	3164	
	8	3366	3380	FLOWLINE PLUGGING
	9	3292	3323	
	10	3219	3241	
	11	3207	3228	
	12			FIRE SHAPED CHARGE - OPEN SEGREGATOR.
	13	5089	4953	
	14	5108	5108	
	15	5108	5108	
	16	5108	5112	
	17	5108	5112	FINAL SHUT IN
	19	5754	5788	FINAL HYDROSTATIC
1028				COME OUT OF HOLE

OPERATOR: PAUL TATTERSON

AGNEW-GO-WESTERN PTY. LTD.
582 St. Kilda Road
Melbourne, Victoria 3004

349035

ESSO AUSTRALIA LIMITED POON BOON POON BOON No. 1
September 27, 1972

Purpose: Obtain subsurface pressures with Amerada gauges run in tandem with Schlumberger Formation Interval Tester.

Tools used: 1 Amerada 11,800 psi element Serial No. 8282 12 hour clock
1 Amerada 8,500 psi element Serial No. 9391 12 hour clock

F.I.T. TEST No. 6 @ 10,427'

Hours	Elapsed Time	PSIG 11,800	PSIG 8,500	Remarks
1203				Run in hole
1239		6025	6040	Initial hydrostatic
1240				Set packer
1241	0			Open tool
1242	1			
1244	3	4665	4691	
	4	4665	4691	
	5	4665	4682	
	6	4678	4678	
	7	4678	4674	Seal main chamber and open segregator
	8	5643	5630	
	9	5649	5643	
	10	5655	5647	
	11	5655	5647	
	12	5655	5647	
	13	5655	5652	Seal segregator
1255				Unseat packer
1256		6019	6027	Final hydrostatic
1257				Pull out of hole

Operator: Paul Tatterson

AGNEW-GO-WESTERN PTY. LTD.
582 ST. KILDA ROAD
MELBOURNE, VICTORIA 3004

349036

ESSO AUSTRALIA LIMITED POON BOON

POON BOON No. 1
SEPTEMBER 29, 1972

PURPOSE: OBTAIN SUBSURFACE PRESSURES WITH AMERADA GAUGES RUN IN TANDEM WITH SCHLUMBERGER FORMATION INTERVAL TESTER.

TOOLS USED: 1 AMERADA 11,800 PSI ELEMENT SERIAL No. 8282 12 HOUR CLOCK
1 AMERADA 8,500 PSI ELEMENT SERIAL No. 9391 12 HOUR CLOCK

F.I.T. TEST No. 7 @ 10,680'

HOURS	ELAPSED TIME	PSIG 11,800	PSIG 8,500	REMARKS
1129				RUN IN HOLE
1209		6811	6800	HYDROSTATIC - SET PACKER
1210	0			OPEN TOOL
	1	6168	6214	
	2	6168	6214	
	3	6168	6214	
	4	6168	6214	
	5	6168	6214	SEAL CHAMBER AND OPEN SEGREGATOR
	6	6168	6155	
	7	6168	6163	
	8	6168	6163	
	9	6168	6163	
	10	6168	6163	SEAL SEGREGATOR - UNSEAT PACKER
		6724	6778	HYDROSTATIC

OPERATOR: PAUL TATTERSON

ESSO AUSTRALIA LTD.
POONBOON NO. 1
F.I.T. NO.'s 1-7

1.	10,434'	C_1 = 170,000 PPM C_2 = 12,000 " C_3 = 3,500 " C_4 = 800 " C_5 = 300 "	H_2S = — NO_3 = 13 PPM CL = 1,400 PPM
2.	10,181'	NO GAS	H_2S = — NO_3 = 62 PPM CL = 3,400 PPM
3.	9,727'	NO GAS	H_2S = — NO_3 = 100 PPM CL = 3,200 PPM
4.	10,470'	MISRUN	———
5.	10,000'	NO GAS	H_2S = — NO_3 = 50 PPM CL = 3,400 PPM
6.	10,427'	C_1 = 30,000 PPM C_2 = 7,500 " C_3 = 3,000 " C_4 = 1,100 " C_5 = 300 "	H_2S = — NO_3 = 37 PPM CL = 2,200 PPM
7.	10,684'	C_1 = C_2 = C_3 = C_4 = C_5 = } NO GAS	H_2S = — NO_3 = 25 PPM CL = 3100 PPM

CORE ANALYSIS REPORT

349038

COMPANY Esso Australia Ltd. COUNTY

WELL Poonboon No. 1 STATE Tasmania

FIELD Bass Basin TYPE OF CORE Christensen DIAMETER 4"

DEPTH	LITHOLOGY	PERM. md.	POROSITY %	SATURATIONS %PORE SPACE OIL	SATURATIONS %PORE SPACE WATER	% GAS BULK VOL.	REMARKS
	Core No. 2						
8096.5'	Sand	530	22	-	62	38	Non-productive
8098'	"	1274	MR	-	MR	MR	"
8099'	"	81	16	-	84	16	"
8101.5'	"	1193	18	-	73	27	"
8102.5'	"	1600	22	-	58	42	"
8104'	"	59	22	-	62	38	"
810[illegible]	"	376	19	-	70	30	"
	CORE NO. 3 8802' - 8827' Rec. 25 (25)'						
8803'	Sand	1230	18	-	69	31	Non-productive
8804'	"	40	29	-	44	56	"
8805'	"	313	16	-	75	25	"
880[illegible]	"	142	18	-	71	29	"
8807'6"	"	150	18	-	71	29	"
880[illegible]'6"	"	105	18	-	71	29	"
8[illegible]'6"	"	367	16	-	78	22	"
8810'6"	"	98	14	-	78	22	"
8811'6"	"	39	14	-	74	26	"
8812'6"	"	100	16	-	64	36	"
8813'	"	50	12	-	75	25	"
8814'	"	88	15	-	74	26	"
8815'	"	122'	17	-	72	28	"
8816'	"	16	15	-	63	37	"
BR-1886	PRINTED IN U.S.A.						

ESSO BASIC DATA

CORE ANALYSIS REPORT

OFFSHORE

349039

COMPANY Esso Australia Ltd.
WELL Poomboon No. 1
FIELD Bass Basin

COUNTY
STATE Tasmania

TYPE OF CORE Christensen DIAMETER 4"

DEPTH	LITHOLOGY	PERM. md.	POROSITY %	SATURATIONS %PORE SPACE OIL	SATURATIONS %PORE SPACE WATER	% GAS BULK VOL.	REMARKS
	Core No. 4 Cut and Rec. 28'						
9960'	Sand	2.1	16.9	-	58.7	6.9	Non-productive
9961'	"	2.9	13.8	-	69.2	4.2	"
9962'	"	1700	16.8	-	68.8	5.2	Perm. Sple Fractured
9963'	"	0	14.7	-	70.7	4.3	Non-productive
9964'	"	3.5	22.3	-	50.9	10.9	"
9965'	"	0	16.2	-	62.6	6.06	"
9966'	"	48	21.2	-	53.3	9.92	"
9967'	"	6.8	18.9	-	56.6	8.2	"
9968'	"	14.5	11.5	-	95.4	.52	"
9969'	"	20	17.9	-	60.6	7.04	"
9970'	"	1.5	15.0	-	65.5	5.1	"
9971'	"	0	17.9	-	55.7	7.9	"
9972'	"	0	9.8	-	51.2	4.8	"
9973'	"	0	16.9	-	60.6	6.6	"

Pambam 1

CORE ANALYSIS REPORT

349040

COMPANY
WELL
FIELD

COUNTY
STATE

TYPE OF CORE

DIAMETER

DEPTH	LITHOLOGY	PERM. md.	POROSITY %	SATURATIONS %PORE SPACE		% GAS BULK VOL.	REMARKS
				OIL	WATER		
10,442½'	Sand	-	-	-	-	-	Insufficient Core
10,442'	"	-	-	-	-	-	"
10,438'	"	820	-	-	-	-	"
10,428'	"	-	-	-	-	-	Too Friable
10,420'	"	-	42	-	42	1.1	"
10,327'	"	-	-	-	-	-	"
10,306'	"	-	-	-	-	-	"
10,143'	"	-	-	-	-	-	"
10,181'	"	-	-	-	-	-	"
10,019'	"	-	-	-	-	-	"
10,000'	"	-	-	-	-	-	Insufficient Core
9,739'	"	-	-	-	-	-	Too Friable
9,699'	"	-	-	-	-	-	Insuffidient Core

349041

CORE ANALYSIS REPORT OFFSHORE 13

COMPANY Esso Australia Ltd. COUNTY

WELL Poomboon No. 1 STATE Tasmania

FIELD Bass Basin TYPE OF CORE Christensen DIAMETER 4"

DEPTH	LITHOLOGY	PERM. md.	POROSITY %	SATURATIONS %PORE SPACE OIL	SATURATIONS %PORE SPACE WATER	% GAS BULK VOL.	REMARKS
	Core No. 4 Cut and Rec. 28'						
9960'	Sand	2.1	16.9	-	58.7	6.9	Non-productive
9961'	"	2.9	13.8	-	69.2	4.2	"
9962'	"	1700	16.8	-	68.8	5.2	Perm. Sple Fractured
9963'	"	0	14.7	-	70.7	4.3	Non-productive
9964'	"	3.5	22.3	-	50.9	10.9	"
9965'	"	0	16.2	-	62.6	6.06	"
9966'	"	48	21.2	-	53.3	9.92	"
9967'	"	6.8	18.9	-	56.6	8.2	"
9968'	"	14.5	11.5	-	95.4	.52	"
9969'	"	20	17.9	-	60.6	7.04	"
9970'	"	1.5	15.0	-	65.5	5.1	"
9971'	"	0	17.9	-	55.7	7.9	"
9972'	"	0	9.8	-	51.2	4.8	"
9973'	"	0	16.9	-	60.6	6.6	"
	Core No. 5 Cut & Rec 24'						
10,691'	Sand	276	9	-	46	9.8	Non productive
	Sidewall Cores						
10,692'	Sand	130	-	-	-	-	Too Friable
10,682'	"	498	-	-	-	-	"
10,513'	"	-	-	-	-	-	"
10,449'	"	-	-	-	-	-	"
10,448'	"	-	-	-	-	-	"
10,447'	"	-	34	-	37	-	"
10,445'	"	-	-	-	-	-	Insufficient Core
10,443'	Coal & Sand	-	-	-	-	-	"

CL-511-2

349042

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

ATTENTION: MR. A. WHITTLE

OFFSHORE 13

Company Esso Australia Ltd. Formation _____ Page 1 of 1

Well Poonboon No.1 Cores Diamond File AP-1-CA-281

Field Wildcat Drilling Fluid Water Base Date Report 16 Oct. 72.

County _____ State Victoria Elevation _____ Analysts _____

Location _____ Remarks _____

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME % PORE	TOTAL WATER % PORE		Overburden Pressure
1	6408	62		28.7				3525 P.S.I.G.
2	6418	192		30.2				3525
3	8099	39		24.7				4455
	8105	649		25.5				4455
5	8810	67		14.0				4850
6	8814	19		19.7				5475
7	9960	4.2		16.3				5475
8	9965	14.1		18.2				5475
9	9971½	0.99		3.7				5475

NOTE: Overburden pressure simulated by Formula - Net Overburden Pressure = .55 Depth. This Formula assumes that the formation fluid pressure is normal.

ESSO.
BASIC DATA

NOTE:
(*) REFER TO ATTACHED LETTER.
(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.
(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

349043

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

OFFSHORE 13

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. POONBOON NO. 1

DATE ANALYSIS COMPLETED NOV. 30, 1972

Core No.	Sample Depth		Lithology	Average Effective Porosity two plugs (% Bulk Vol.	Absolute Permeability (Millidarcy)		Average Density (gm/cc.)		Fluid Saturation (% pore space)		Core Water Salinity (p.p.m. NaCl)	Acetone Test	Fluorescence of freshly broken core	
	From	To			V	H	Dry Bulk	Apparent Grain	Water	Oil				
1	6411'3"	6411'10"	Slst; arg	27.2	0.97	1.9	2.09	2.87	25	Nil	N.D.	Neg.	Nil	
1	6416'9"	6417'8"	Sst; vgsr arg	33.4	125	189	1.78	2.67	12	Nil	N.D.	Neg.	Nil	
1	6422'0"	6423'0"	as above carb.	31.6	3.4	111	1.82	2.68	16	Nil	N.D.	Neg.	Nil	
2	8097'0"	8098'0"	Sst; c.gr. to v.c.gr.	22.0	315	351	2.06	2.64	2.6	Nil	N.D.	Neg.	Nil	
2	8102'0"	8103'0"	Sst; m.gr.	29.2	557	894	1.90	2.69	8.2	Nil	N.D.	Neg.	Nil	
2	8111'0"	8112'0"	Sst; v.f.gr to f.gr. slty	18.9	0.86	8.1	2.18	2.69	3.9	Nil	N.D.	Neg.	Nil	
3	8804'3"	8805'0"	Sst; f.gr. to c.gr.	23.0	2.3	375	2.03	2.63	49	Nil	N.D.	Neg.	Nil	
3	8809'11"	8811'0"	Sst; f.gr. to m.gr. carb.	14.8	72	112	2.30	2.70	2.2	Nil	N.D.	Neg.	Even orange spotted	

Remarks: -

General File No. 72/2914
Well File No. _____

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

349044

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. POONBOON NO. 1

DATE ANALYSIS COMPLETED Nov. 30, 1972

Core No.	Sample Depth		Lithology	Average Effective Porosity two plugs (% Bulk Vol.	Absolute Permeability (Millidarcy)		Average Density (gm/cc.)		Fluid Saturation (% pore space)		Core Water Salinity (p.p.m. NaCl)	Acetone Test	Fluorescence of freshly broken core	
	From	To			V	H	Dry Bulk	Apparent Grain	Water	Oil				
3	8821'0"	8821'11"	Sst; v.f.gr carb	13.9	<0.1	0.25	2.34	2.72	76	Nil	N.D.	Neg.	Dull even orange spotted	
4	9960'0"	9961'0"	Sst; m.gr. carb	17.6	9.2	11	2.19	2.65	18	Nil	N.D.	Neg.	"	
4	9967'0"	9967'10"	Sst; m.gr. to c.gr. carb	19.4	2.6	28	2.13	2.64	65	Nil	N.D.	Neg.	"	
4	9972'0"	9973'0"	as above	12.7	0.23	0.61	2.33	2.67	36	Nil	N.D.	Neg.	"	
4	9981'4"	9982'0"	Sh	1.4	N.D	<0.1	2.68	2.72	100	Nil	N.D.	Neg.	Nil	
5	10694'0"	10695'0"	As above	5.0	N.D.	<0.1	2.49	2.62	100	Nil	N.D.	Neg.	Nil	
5	10711'0"	10712'0"	Sh; mic.	2.8	N.D.	<0.1	2.55	2.62	100	Nil	N.D.	Neg.	Nil	

Remarks: -

General File No.
Well File No. 72/2914

Form 704 (Rev. 1)

1000 EXPLORATION AND PRODUCTION AUSTRALIA INC.

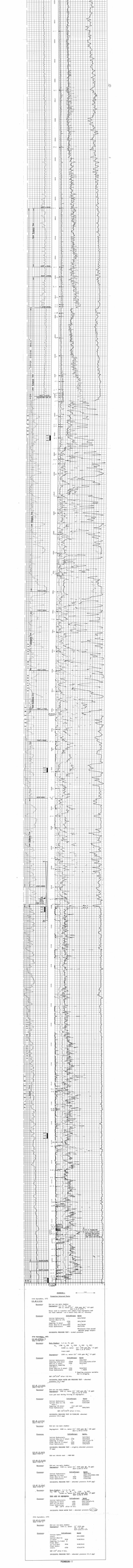
WELL COMPLETION LOG

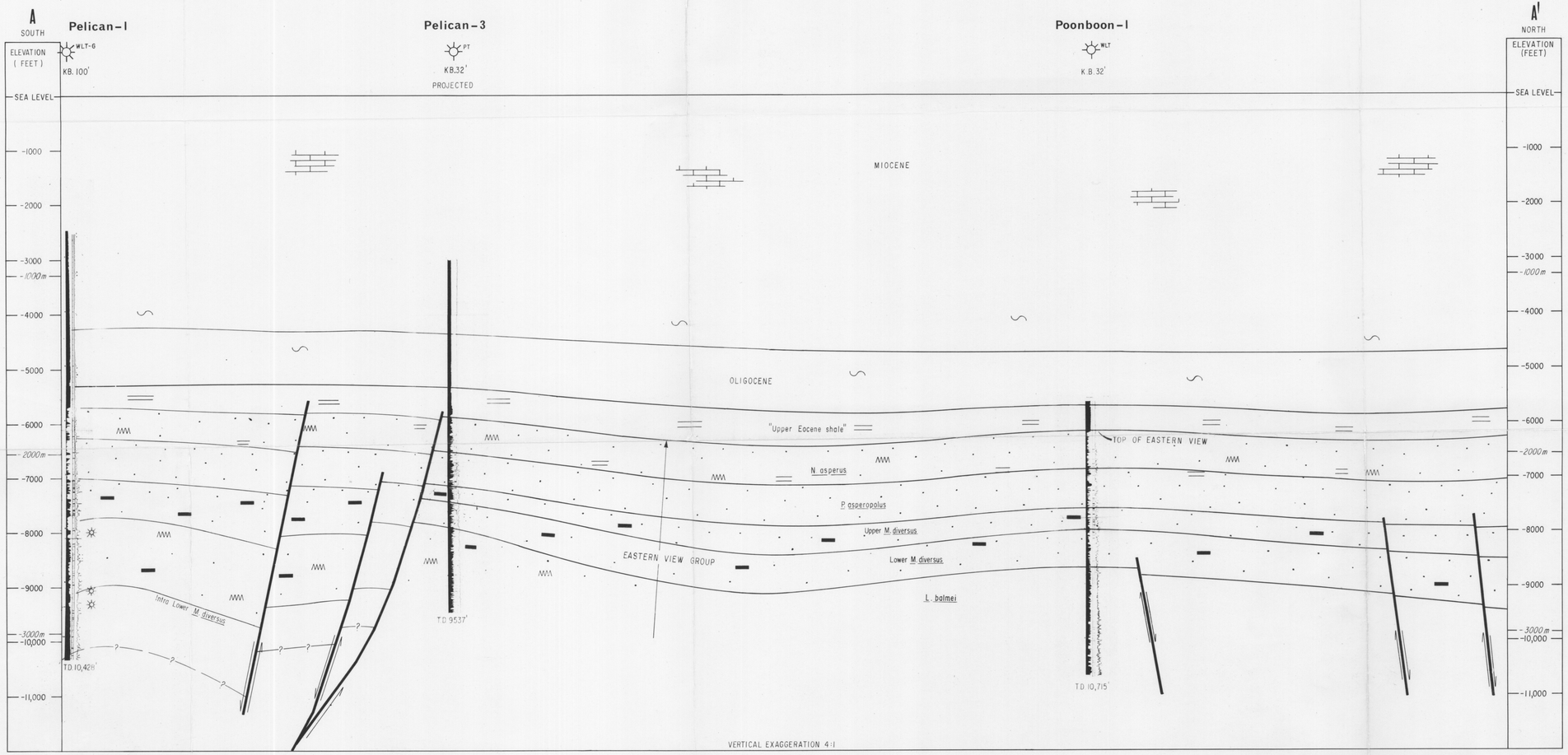
POONDOORA - 1

CONTRACTOR	Ltd	TENEMENT	BASIN
LOCATION	Lat. 26° 47' 48.8" S. Long. 148° 38' 45.4" E.		
ELEVATION	K.B. 1,000.0 ft. G.L. 976.0 ft.	DATUM	source quarry pit
DATE	SPUDDED 30.12.76 COMPLETED 15.1.77	GROUND RF.	Tenneco Geosource
CLASSIFICATION	Development/Gas Well/Oil Producer	STATUS	Plugged & Abandoned
TOTAL DEPTH	5,747	PLUGGED BACK T.D.	nil

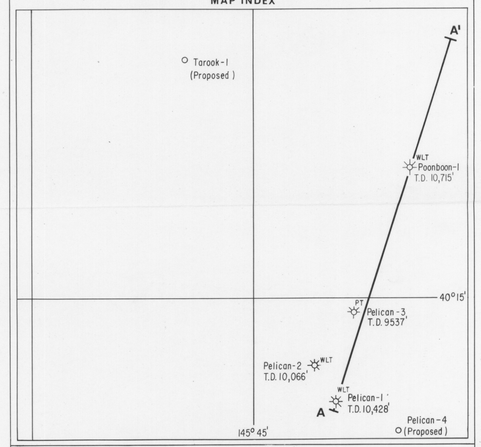
CASING AND TUBING				FLUID			PERFORATIONS		
SIZE	WT. PER FT.	GRD.	CONNECTION	DEPTH	TYP.	DEN. PER	FROM	TO	SHOT
13 3/8"	54.5			1,000	GEL				
9 5/8"	47			4,000	GEL				
5 1/2"	20	Seamless	Buttress Thread	5,747	GEL				

CASING SIZE
TOP LOCAL DEPTH
CASING WEIGHT
CASING GRADE
CASING CONNECTION
TOP OF CEMENT
CEMENT TO SURFACE
TOP OF LINER
LINER SIZE
LINER WEIGHT
LINER GRADE
LINER CONNECTION
CEMENT TO LINER TOP
LINER TO BOTTOM
CEMENT TO LINER BOTTOM
CASING SHOE DEPTH
CASING SHOE DEPTH
CASING SHOE DEPTH


Production Diagnostic Tracts
Run and set main packer
Run and set main packer
Run and set main packer



MAP INDEX



LEGEND

Limestone
Sand
Marl
Coal
Shale
Siltstone

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

BASS BASIN

VICTORIA – TASMANIA

INTERPRETATIVE

POONBOON PROSPECT

GEOLOGICAL CROSS SECTION A-A'

5 cm

Vertical Scale 1in. = 1000 Feet
Horizontal Scale 1:50,000

1 0 1 2
MILES

AUTHOR: H. STEAD & B. McKAY

DRAFTED BY: J.R SCHMIDT

TO ACCOMPANY: POONBOON-1 COMPLETION REPORT

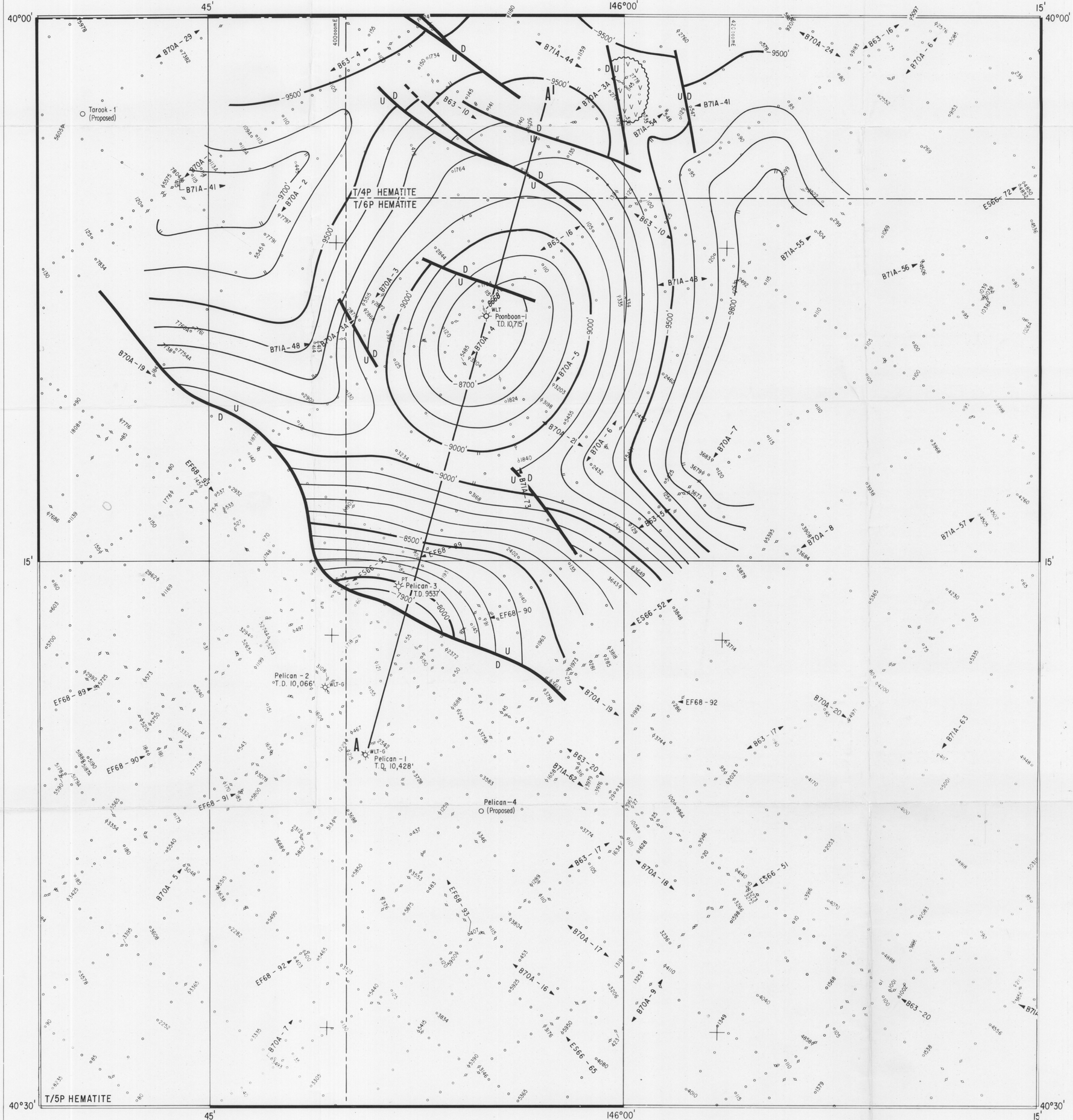
DATE: NOVEMBER, 1972

ENCLOSURE 2

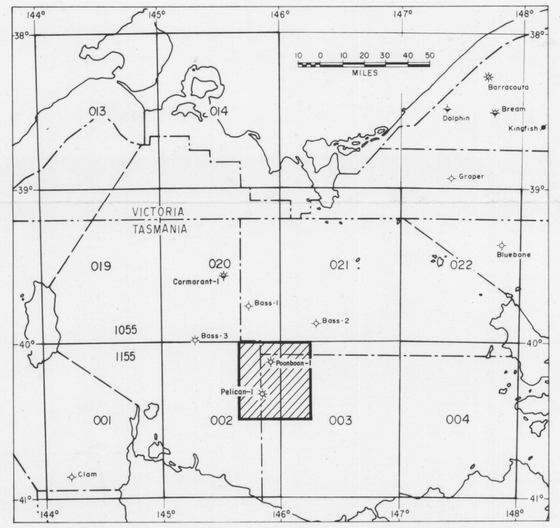
OR-0342

349646

Dwg 1491/OP/4



MAP INDEX



LEGEND

Igneous Intrusive

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN

VICTORIA - TASMANIA

INTERPRETATIVE

POONBOON PROSPECT

STRUCTURE MAP

TOP L.balmei

5 cm

CONTOUR INTERVAL 100 FEET — DATUM SEA LEVEL

Scale 1 : 100,000

2 0 2 4 Miles

2 0 2 4 6 8 Kilometres

TRANSVERSE MERCATOR PROJECTION, A.M.G. ZONE 55

AUTHOR H. STEAD & B. McKAY — DRAFTED BY S.R.SMITH

TO ACCOMPANY POONBOON-1 COMPLETION REPORT — DATE NOVEMBER, 1972

OR-0342.

ENCLOSURE 3

Dwg 1491/OP/5

349047

INTERPRETATIVE

O/S 13 pt 1.
OR-0342

349648

ONE WAY TIME BELOW SEA LEVEL

TWO WAY TIME BELOW SEA LEVEL

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

POONBOON—1

TIME DEPTH CURVE

DATUM: MEAN SEA LEVEL

AUTHOR: M.A. HENSCHKE

CO ORDINATES:
LAT.:— 40° 08' 15.9" S
LONG.:— 145° 55' 01.29" E

LEGEND

Water Depth 259'
K.B. 32'
⊙ Check Shots
⊡ Interpolated from Sonic Log
T.D. 10,720' (-10,688')*
Casing Depth 8761' (- 8729')*
Gas Gun Survey — Lock-in Well Geophone
G denotes good quality data
F denotes fair quality data

5 cm

ENCLOSURE 4

DRAFTED BY: J.R. SCHMIDT

DATE OF SURVEY : 14 SEPTEMBER, 1972

No data available about these portions of the curves above -3948'

Time Depth Curve

(7330'/sec.)

Velocity vs. Depth Curve

Interval Velocities from calibrated Sonic Log

(7620'/sec.)

(7690'/sec.)

(7940'/sec)

(8090'/sec.)

(8370'/sec.)

(8490'/sec.)

(8630'/sec.)

(8750'/sec.)

(8840'/sec.)

Sonic Log Integrator Error of −16 microsec/ft. in this interval

F (-539, -3948')

(-576, -4220'), 4 msec. subtracted from sonic log time to tie with check shots

G (-622, -4574')

TOP OF EOCENE SHALE (-5724')

G (-751, -5724')

TOP OF EASTERN VIEW (-6175')

(-803, 6174')

G (-893, -7088')

Sonic Log Integrator Error of + 3·9 microsec/ft

(-935, -7500') 2 msec added to sonic log time to tie with check shot points

F (-971, -7858')

G (-1·049, -8768)
F (-1·051, (-8795')

(1·089, -9250)

(1·130, -9750)

(1·172, -10,250)

(1·205, -10,650)

T.D. 10,720' (-10,688')

Time vs Velocity Curve

This was a gas gun survey with a lock-in geophone The quality of the records is good. In the interval between the first check shot (-3948') and the second check shot (-4574'), the check shot interval time is 83 msec. and the sonic log interval time from the integrator is 93 msec. representing an error of -16 microsec/ft. This may be due to the poor quality of the hole and a calibration error.

-16 microsec/ft was the maximum error. The average of the errors in the remaing intervals is 1·6 microsec/ft.

$$\text{Error} = \frac{\text{Interval Time (Check Shot} - \text{Interval Time (Sonic Log)}}{\text{Thickness of the interval}}$$

* At the time of the gas gun survey T.D. was 8827' (-8795') and casing depth was 3028' (-2996')
The well was subsequently drilled to the Total Depth and Casing Depth shown in the Legend. The T.D. curve was extrapolated below -8795' using points interpolated from a sonic log run between -8795' and -10,688'

DEPTH IN FEET BELOW SEA LEVEL

(AVERAGE VELOCITY — FEET PER SECOND)

AVERAGE AND INTERVAL VELOCITY — FEET PER SECOND

Dwg 1491/OP/1

BAROID ppm LOG

OFFSHORE 13

WELL: 6507/2-1 ST2
COMPANY: ESSO EXPLORATION & PROD. NORWAY A/S
FIELD: BALDER
COUNTY, STATE, OFFSHORE AREA: BLOCK 6507/2 NORWEGIAN SEA

SURFACE LOCATION: 1° 26' 31.12" E 58° 27' 49.83" N
SURFACE COORDINATES: 6480000.00 N, 435000.00 E
ELEVATION: KB: 25.00 m RT: 25.00 m

SPUD DATE: 20 JUNE 2000
COMPLETION DATE: 10 AUGUST 2000
PLATFORM: SEDCO 711
DRILLING CONTRACTOR: SEDCO FOREX

SURFACE CASING @ 1,000 m
INTERMEDIATE CASING @ 3,000 m
PRODUCTION CASING @ 4,000 m

DRILLED WITH SEAWATER/HI-VIS PILLS FROM 1,000 m TO 3,000 m
DRILLED WITH KCL/POLYMER MUD FROM 3,000 m TO 4,000 m

MUD TYPE: KCL/POLYMER
MUD WEIGHT: 1.20 SG
VISCOSITY: 40 SEC/L
FLUID LOSS: 4 CC/30 MIN

DRILLED WITH 12 1/4" BIT FROM 1,000 m TO 3,000 m
DRILLED WITH 8 1/2" BIT FROM 3,000 m TO 4,000 m

LOGGED BY: BAROID
LOGGING ENGINEER: M.G. OLSEN
LOGGING UNIT NO.: 1
LOGGING UNIT LOCATION: ON BOARD

ABBREVIATIONS

WOB	WEIGHT ON BIT	MWD	MEASUREMENT WHILE DRILLING
RPM	ROTARY SPEED	LWD	LOGGING WHILE DRILLING
SPP	STANDPIPE PRESSURE	PWD	PRESSURE WHILE DRILLING
TQ	TORQUE	GR	GAMMA RAY
ROP	RATE OF PENETRATION	RES	RESISTIVITY
DC	DRILL COLLAR	DEN	DENSITY
HWDP	HEAVY WEIGHT DRILL PIPE	NEU	NEUTRON POROSITY
DP	DRILL PIPE	SON	SONIC
BHA	BOTTOM HOLE ASSEMBLY	CAL	CALIPER
MD	MEASURED DEPTH	DIR	DIRECTIONAL SURVEY
TVD	TRUE VERTICAL DEPTH		

LITHOLOGY

SAND	LIMESTONE
SHALE	SALT / ANHYDRITE
CLAY	VOLCANICS
CHERT	OPEN ANNOTATE
TUFF	COAL OR LIGNITE
MARL	
DOLOMITE	

LEGEND

ISSUED	

DRILLING RATE

MIN/M	M/HR
0	0
600	100

ppm HYDROCARBONS IN MUD

C_1	C_2	C_3	$i-C_4$	$n-C_4$	$i-C_5$	$n-C_5$	
10	10	10	10	10	10	10	
1,000	1,000	1,000	1,000	1,000	1,000	1,000	

CUTTINGS ANALYSIS

SAMPLE TYPE	
WASH INTERVAL	
10	10
70	70

1,000 m

CASING SHOE @ 1,000 m IN 36" HOLE
MUDLINE SUSPENSION
MUD: SEAWATER/GEL
MUD WEIGHT: 1.03 SG
VISCOSITY: 100 SEC/L
FLUID LOSS: NC
DRILLED WITH 17 1/2" BIT FROM 1,000 m TO 1,000 m

2,000 m

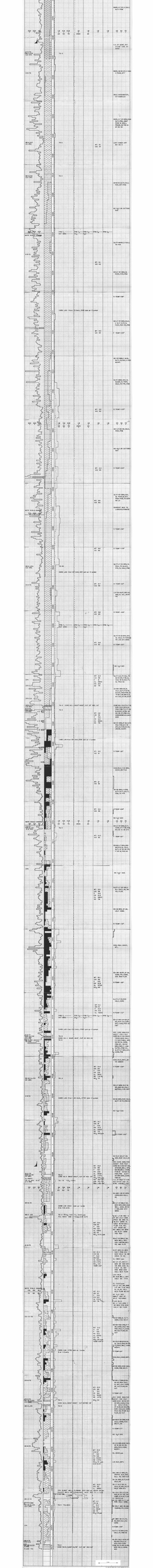
3,000 m

CASING SHOE @ 3,000 m IN 12 1/4" HOLE
MUD: KCL/POLYMER
MUD WEIGHT: 1.20 SG
VISCOSITY: 40 SEC/L
FLUID LOSS: 4 CC/30 MIN
DRILLED WITH 12 1/4" BIT FROM 3,000 m TO 3,000 m

4,000 m

CASING SHOE @ 4,000 m IN 8 1/2" HOLE
MUD: KCL/POLYMER
MUD WEIGHT: 1.20 SG
VISCOSITY: 40 SEC/L
FLUID LOSS: 4 CC/30 MIN
DRILLED WITH 8 1/2" BIT FROM 4,000 m TO 4,000 m

Baroid
ppm 2000

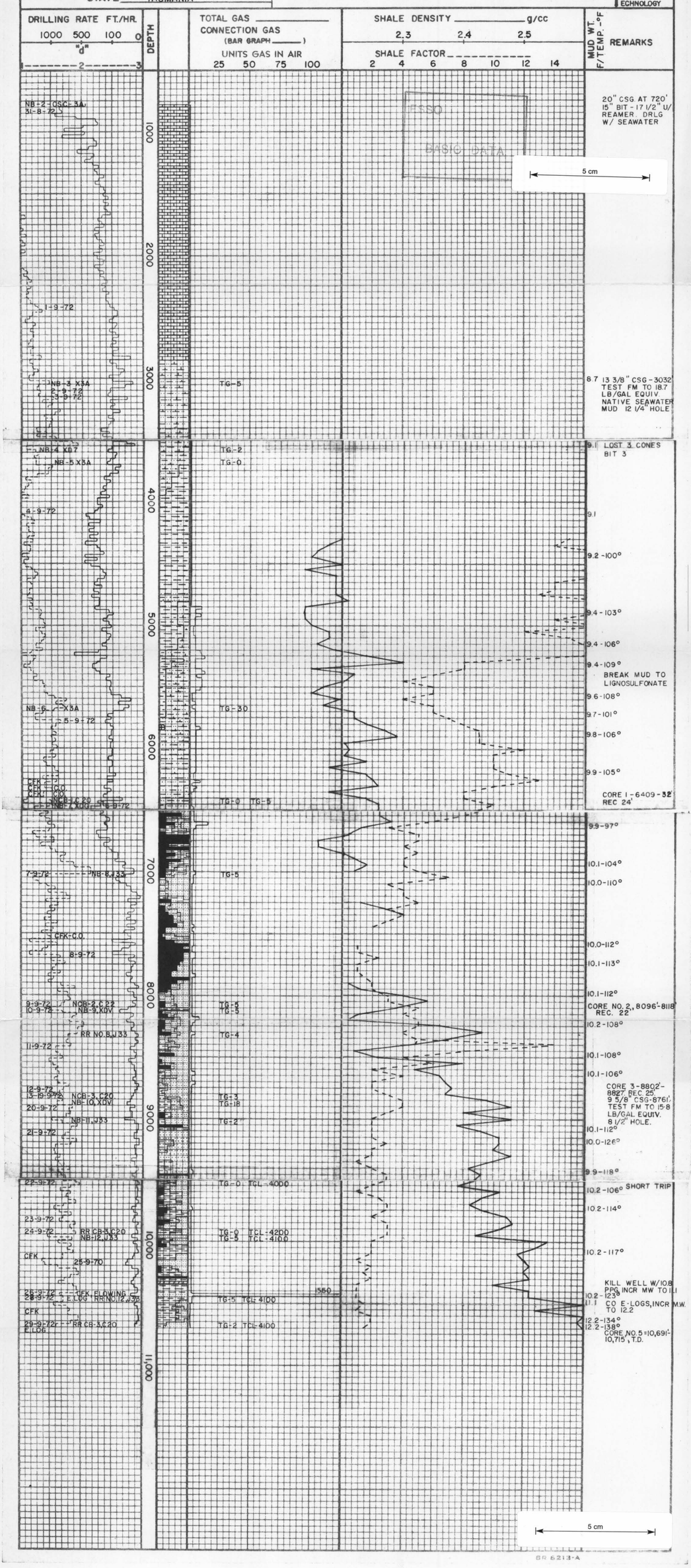


ENCLOSURE 6 349050 OFFSHORE 13 OR-0342A

WELL POONBOON NO. 1
COMPANY ESSO AUSTRALIA LTD.
COUNTY BASS BASIN
STATE TASMANIA

LEGEND
DEPTH CORRESPONDS TO DRILL PIPE MEASUREMENTS.
NB NEW BIT
NCB NEW CORE BIT
DST DRILL STEM TEST
TG TRIP GAS
NR NO RETURNS
E LOG ELECTRIC LOG
CO CIRCULATE OUT RETURNS
CFK CHECK FOR FLOW
LS SAND
MARL SHALE

APPLIED DRILLING TECHNOLOGY

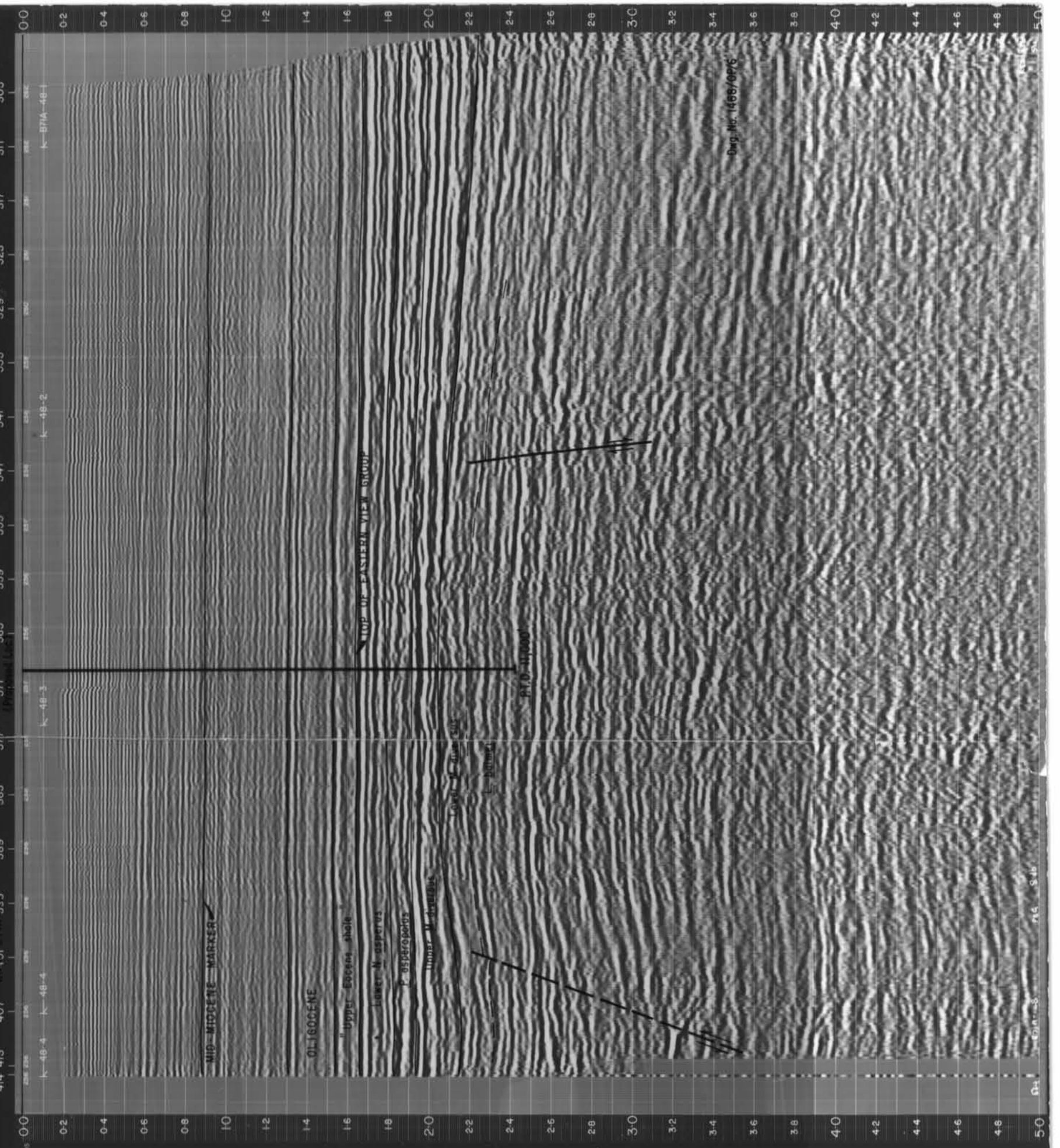


BR 6213-A

ENCLOSURE 7

5 cm

34905



GEOPHYSICAL SERVICE INTERNATIONAL
DIGITAL PROCESSING CENTRE
SYDNEY, NSW, AUST

ESSO AUSTRALIA LIMITED

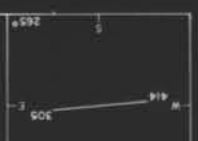
AREA BASS BASIN — 48
RECORDING PARAMETERS — LINE B7IA-

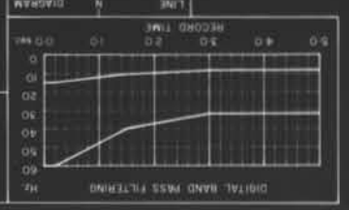
Source Air Gun — SP 305 to 414
Array size 1300 cu.in., 23 guns, tuned array
4 pops/Sp. Shot off group 48 No of groups 48
Cable length (centre of gp 1 to centre of gp 48) 7708 ft
Offset (array centre to centre of group 48) ± 997 ft
Group interval 164 ft SP interval 656 ft
30 geophones/group. Field polarity first break Negative
Recording system DFS-III Filter 8 to 62 Hz
Recording length 5.0 sec Sample rate 4 ms

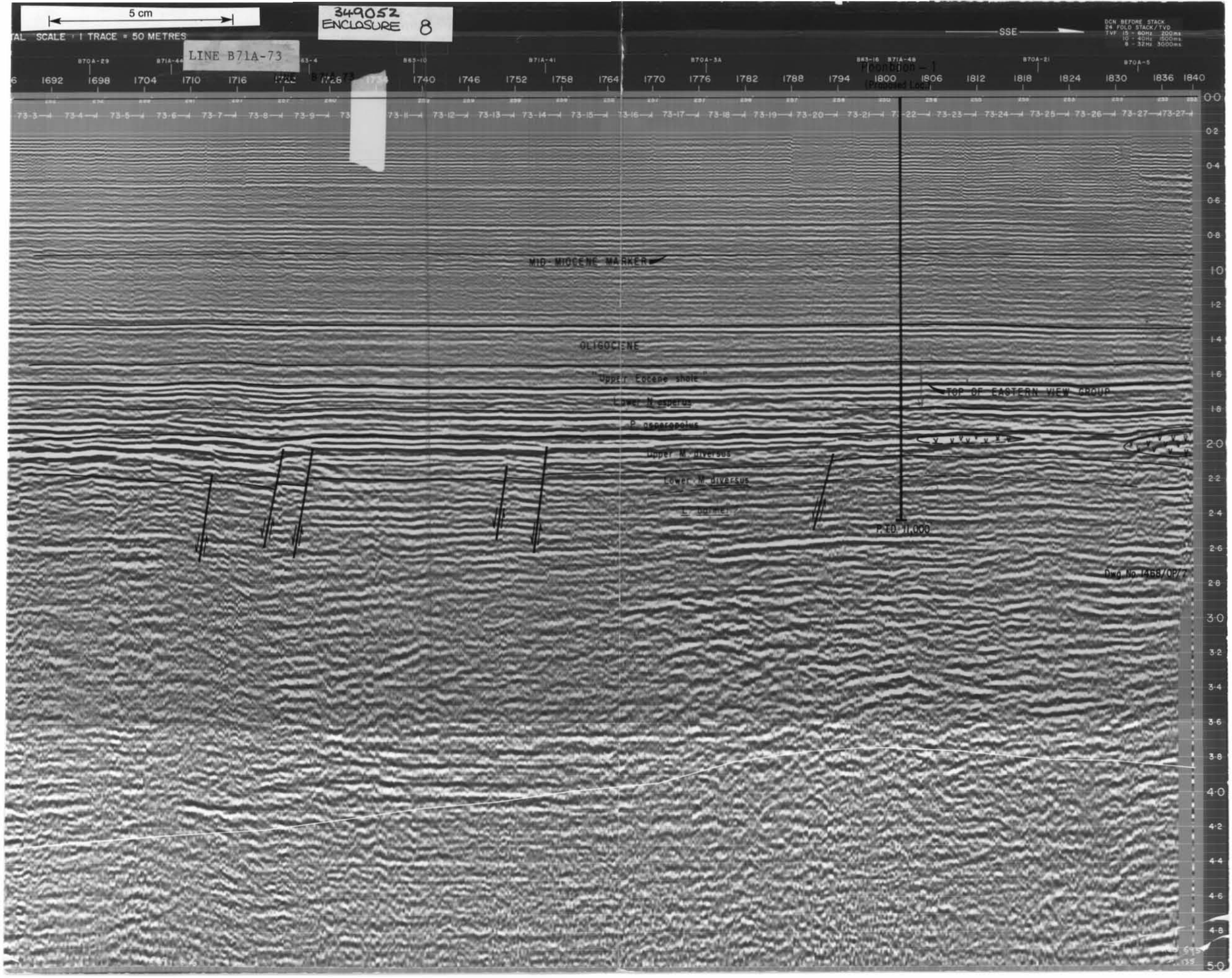
G.S.I. Field crew 909 Date Dec 1971

VES	1
NMO	4
AMP	—
TVD	—
TVS	3
DCN	2 2 5
DPS	6
TVD	—
DCN	—
DGF	—
TVF	7
700 Pkg	■

PROCESSING DATA
Sample period 4 ms
Groups processed 1-48 Processed 24 fold
TAR B = -17 db, α = 3 db/sec Gate 0 to 4500 ms
Vertical stack Odd/Even
Decon before stack DCN 62 pts, 4 ms, No. of gates/trace 1
Design gate (trace 1) 2200 to 4650 ms Gate shift -80 ms/trace
Decon after stack TVD 66 pts, 4 ms, No. of gates/trace 2
Design gate (trace 1) 300 to 4500 ms Gate shift 0 ms/trace
Digital filter 35 pts, 4 ms to Hz
Displayed digital AGC Playback gain 8 db
Polarity displayed Positive □ / Negative ■
TIAC REQUEST 822 Hold tape 4303
INPUT CREW PARTY 107-ESO-2 Date March 1972







5 cm
349052
ENCLOSURE 8
TAL SCALE : 1 TRACE = 50 METRES
LINE B71A-73
SSE
DCN BEFORE STACK
24 FOLD STACK/TVD
TVF 15 - 60Hz 200ms
10 - 40Hz 1500ms
8 - 32Hz 3000ms
Poonbion - 1
(Proposed Loc.)
MID-MIOCENE MARKER
OLIGOCENE
"Upper Eocene shale"
Lower N. asperus
P. asperopolus
Upper M. diversus
Lower M. diversus
L. barmei
TOP OF EASTERN VIEW GROUP
P.T.D. 11,000
Dwg. No. 1468/OP/7

ENCLOSURE 9

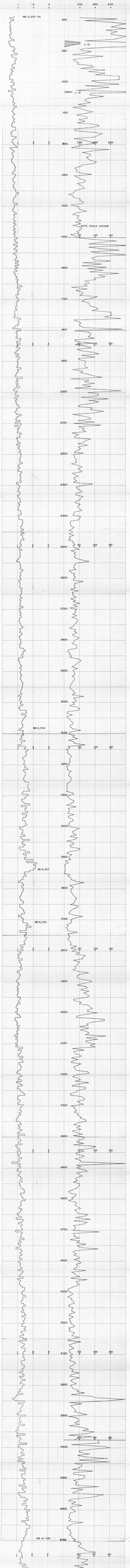
349653 OFFSHORE 13

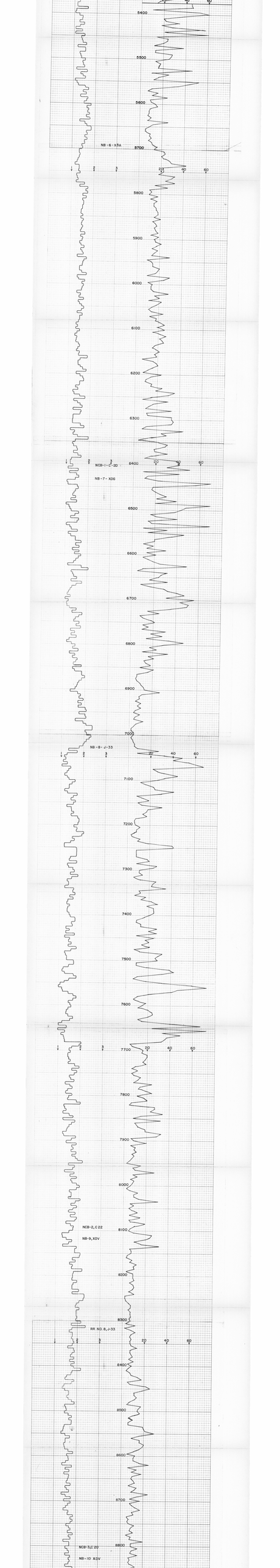
WELL: ASHBURTON NO. 1
COMPANY: ESSO AUSTRALIA LTD.
COUNTY: BASS BASIN
STATE: TASMANIA

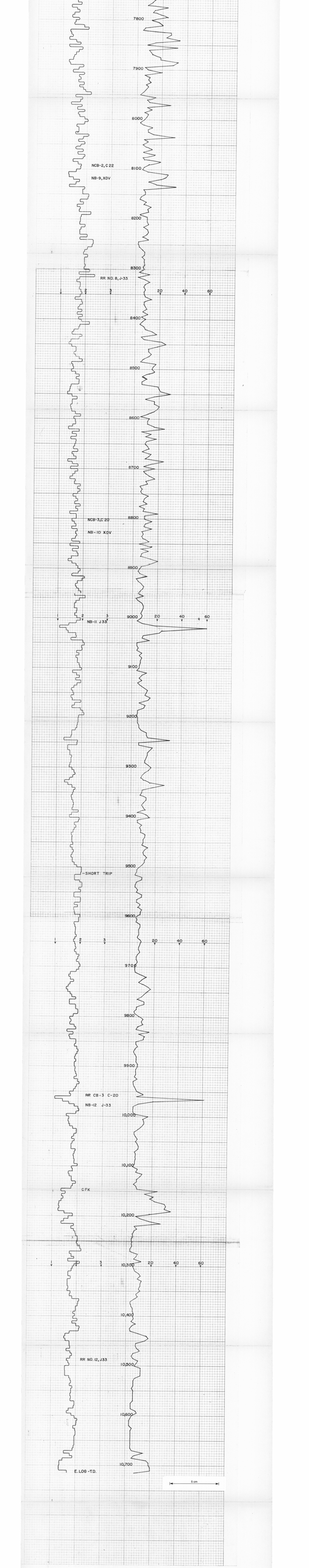
$$K_t = \frac{\left(\frac{R}{N}\right)^{1/2}}{\left(\frac{N}{N-1}\right)^{1/2}} \qquad K_t = \frac{R \times 10^3}{N \times 2 \times 1.5}$$

1 cm

R = PENETRATION RATE, FT/HR.
N = ROTARY SPEED, RPM
W = WEIGHT ON BIT, LBS.
D = DIAMETER OF BIT, INCHES




5400
5500
5600
NB-6-X9A
5700
5800
5900
6000
6100
6200
6300
NCB-1-C-20
6400
NB-7-X06
6500
6600
6700
6800
6900
7000
NB-8-J-33
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
NCB-2, C 22
8100
NB-9, X0V
8200
8300
RR NO. 8, J-33
8400
8500
8600
8700
NCB-3, C 20
8800
NB-10 X0V


7800
7900
8000
NCB-2, C 22
NB-9, XDV
8100
8200
8300
RR NO. 8, J-33
8400
8500
8600
8700
NCB-3, C 20
NB-10 XDV
8800
8900
9000
NB-11 J 33
9100
9200
9300
9400
9500
SHORT TRIP
9600
9700
9800
9900
RR CB-3 C-20
NB-12 J-33
10,000
10,100
CFK
10,200
10,300
10,400
RR NO. 12, J33
10,500
10,600
10,700
E. LOG - T.D.
5 cm

OP 342

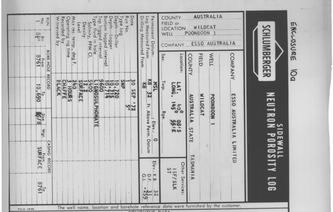


FIG. NO. 1

Run No.	BSP-S	Min-A	Min-M	Dens.	BHT-TD	SGN	Logging Unit	Location
1	333	260	134	265		-	3080	GAL
2								
3								

CALIBRATION DATA

Run No.	API Scale	Gamma Ray Background CPS	Total CPS	Neutron – Before Log – ACPS Diameter	Sensitivity	Neutron – After Log – ACPS Diameter	Sensitivity
1		440		260	440	260	
2							
3							

LOGGING DATA

Run No.	General Depth-Driller From	To	Depth-Logger From	To	Speed Ft./Min.	TC	Gamma Ray API Scale	Neutron Selectors Matrix	Mud Corr. Built-In Mud Corr.	Temperature	Porosity Units
1	10,714		3600		30	2		LIME LIS	12CK BARITE		-15/45
2											
3											

MUD DATA

Run No.	Rm @	°F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity Sec./Qt. @	°F	Solids, Av. Sp. Gr.
1	.068	89						
2								
3								

Remarks:

All interpretations are opinions based on inferences from electrical or other measurements, and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except to the extent of gross or willful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions set forth in our current Price Schedule.

CALIPER
HOLE DIAM. IN INCHES
6" 16"

SHADES

DENSITY POROSITY INDEX %
MATRIX
5" 45 30 15 0 -15
5 cm

0000
0004
0008
0012
0016
0020
0024
0028
0032
0036
0040
0044
0048
0052
0056
0060
0064
0068
0072
0076
0080
0084
0088
0092
0096
0100

NEUTRON POROSITY INDEX %
MATRIX
45 30 15 0

CALIPER
HOLE DIAM. IN INCHES
6" 16"

SHADES

DENSITY POROSITY INDEX %
MATRIX

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCHL. KB 10,714
DRILL. DF 10,715
LOG TD 10,710
Elev.: KB 33
DF 23
GL +259

CALIBRATION DATA

CALIBRATION AFTER SURVEY

DEPARTURE 7+22



NEUTRON POROSITY INDEX %
MATRIX
45 30 15 0 -15

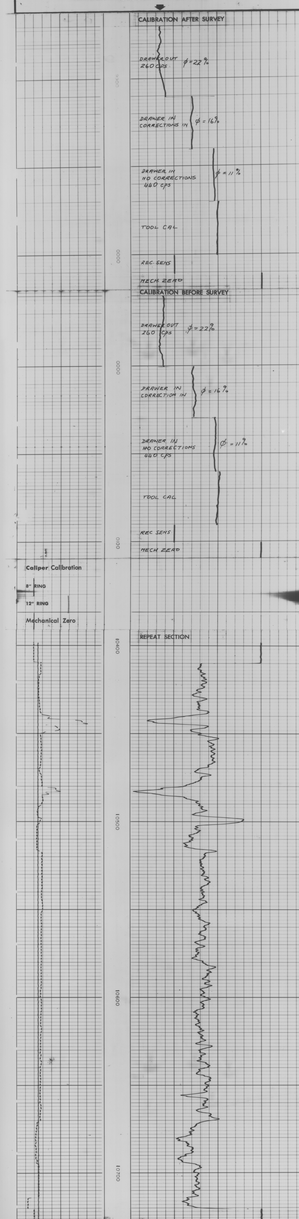
CALIPER
HOLE DIAM. IN INCHES
6" 16"

DENSITY POROSITY INDEX %
MATRIX

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCHL. FR 10,714
SCHL. TO 10,715
DRLR TO 10,720
Elev.
KB 32
DF 31
GL -259

CALIBRATION DATA



CALIBRATION DATA

5 cm

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCHL. FR 10,714
SCHL. TO 10,715
DRLR TO 10,720
Elev.
KB 32
DF 31
GL -259

COMPANY COPY

SCHLUMBERGER

WELL SERVICES

Company: AUSTRALIA
Well: HOLDFAST
Field: EXPLORATION
County: STATE: AUSTRALIA

Other Services: DSI-GR

Permanent datum: GROUND LEVEL Elev.: 0 m

Log measured from: KELLY BUSHING 4 m above perm. datum

Drilling measured from: KELLY BUSHING

Run No.	Date	Depth-Driller	Depth-Logger	Bottom logged interval	Top logged interval	Casing-Driller	Casing-Logger	Bit Size
ONE	30-MAY	1863 m	1863 m	1863 m	1800 m	1800 m	1800 m	311 mm

Run No.	Service Order	Density Viscosity	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp	Rmf @ Meas. Temp	Rmc @ Meas. Temp
ONE	0	1.04 g/cm³ 45 s	9.5	4.8 cm³/30 min	RMS	0.22 Ω-m @ 60 °C	0.17 Ω-m @ 60 °C	0.28 Ω-m @ 60 °C

Rm at BHT: 0.12 Ω-m @ 110 °C

Run No.	Equipment No.	Location	Recorded By	Witnessed By
ONE	0	PERTH	J. SMITH	R. JONES

Run No.	Bit No.	Type Fluid in Hole	Dens. lb/gal	Visc. sec/qt	pH	Fluid Loss cm³/30 min	Source of Sample	Rm @ Meas. Temp	Rmf @ Meas. Temp	Rmc @ Meas. Temp
ONE	0	WATER BASED MUD	1.04	45	9.5	4.8	RMS	0.22 @ 60 °C	0.17 @ 60 °C	0.28 @ 60 °C

Rm at BHT: 0.12 @ 110 °C

Run No.	Tool Name	Serial No.	Position	Material	Source	Rm	Rmf	Rmc	Max Rec Temp °C	Circ Time Hrs	Time Since Circ Hrs	Max Rec Temp °C	Equip Loc
ONE	DSI	0	0	0	0	0	0	0	110	24	24	110	PERTH

Run No.	Tool Name	Serial No.	Position	Material	Source	Rm	Rmf	Rmc	Max Rec Temp °C	Circ Time Hrs	Time Since Circ Hrs	Max Rec Temp °C	Equip Loc
ONE	DSI	0	0	0	0	0	0	0	110	24	24	110	PERTH

Run No. ONE | Top Log Interval 1800 m | Bottom Log Interval 1863 m | Scale Interval 100 m

Remarks:

THE INTERPRETATIONS ARE BASED SOLELY ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

LOG FORMAT: MUD FILLED HOLES, LIME MATRIX

CALIPER
HOLE DIAM IN INCHES
6 in
16 in

POROSITY (%)
0.45
-0.15

POROSITY IF LIMESTONE
45
-15

CALIPER
HOLE DIAM IN INCHES
6 in
16 in

POROSITY (%)
0.45
-0.15

Company: FIELD AUSTRALIA LTD
Well: EXPLORATORY 1
Field: HOLDFAST
County: AUSTRALIA State: TASMANIA

RUN 1 @ 1800
RUN 2 @ 1863
RUN 3 @
RUN 4 @
DATE 30-MAY

DETAIL LOG
1 inch = 100 m

CALIPER
HOLE DIAM IN INCHES
6 in
16 in

POROSITY (%)
0.45
-0.15

POROSITY IF LIMESTONE
45
-15

CALIPER
HOLE DIAM IN INCHES
6 in
16 in

POROSITY (%)
0.45
-0.15

Company: FIELD AUSTRALIA LTD
Well: EXPLORATORY 1
Field: HOLDFAST
County: AUSTRALIA State: TASMANIA

RUN 1 @ 1800
RUN 2 @ 1863
RUN 3 @
RUN 4 @
DATE 30-MAY

CALIBRATION DATA

CALIBRATION BEFORE SURVEY

RESISTIVITY
FROM 0 TO 2000 Ω-m

RESISTIVITY
FROM 0 TO 0.5 Ω-m

RESISTIVITY
FROM 0 TO 2000 Ω-m

RESISTIVITY
FROM 0 TO 0.5 Ω-m

TOOL NO.

TOOL STATUS

CALIBRATION AFTER SURVEY

RESISTIVITY
FROM 0 TO 2000 Ω-m

RESISTIVITY
FROM 0 TO 0.5 Ω-m

RESISTIVITY
FROM 0 TO 2000 Ω-m

RESISTIVITY
FROM 0 TO 0.5 Ω-m

TOOL NO.

TOOL STATUS

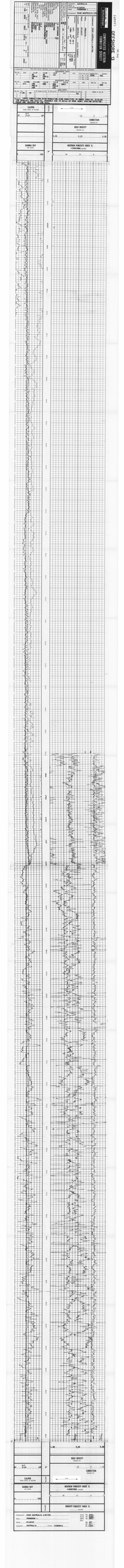
Pattern Calibration
Pattern No.
Run No.
Calibration Type

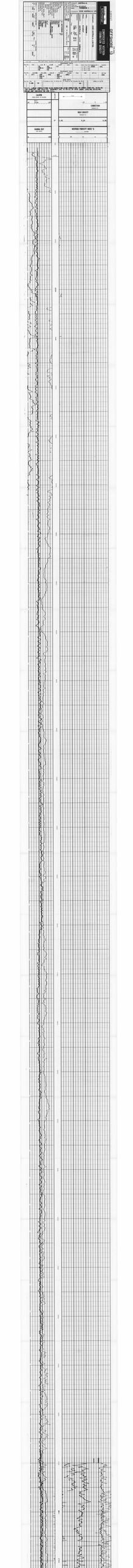
Before Survey

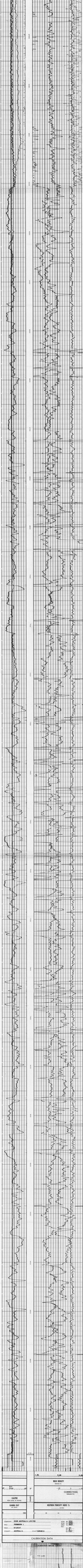
CALIBRATION DATA

Company: FIELD AUSTRALIA LTD
Well: EXPLORATORY 1
Field: HOLDFAST
County: AUSTRALIA State: TASMANIA

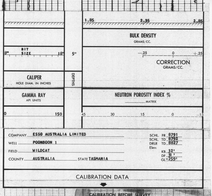
RUN 1 @ 1800
RUN 2 @ 1863
RUN 3 @
RUN 4 @
DATE 30-MAY


COMPENSATED NEUTRON FORMATION DENSITY
CALIPER
GAMMA RAY
BULK DENSITY
CORRECTION
NEUTRON POROSITY INDEX %
DENSITY POROSITY INDEX %
Company ESSO AUSTRALIA LIMITED
Well PENGUIN 3
Field KINGFISH
County AUSTRALIA
State TASMANIA





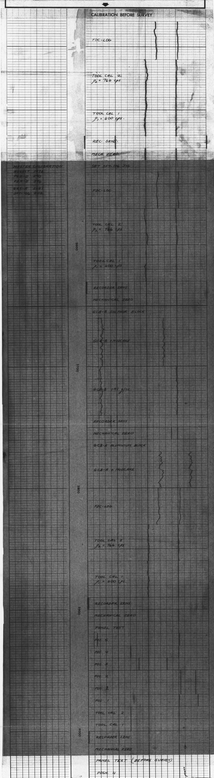
L.R.
R.R.
BLUE BENTLEY
CORRECTION
GAMMA RAY
NEUTRON POROSITY SHEET 1
CALIBRATION DATA

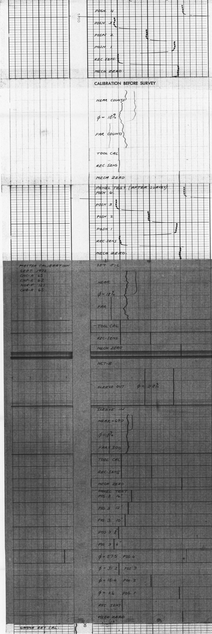


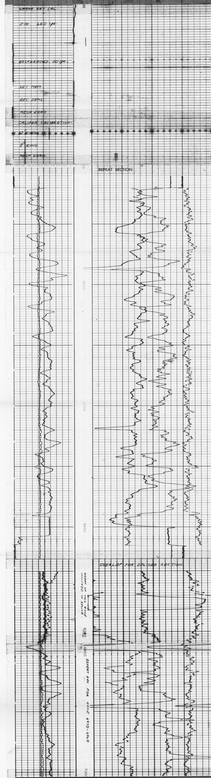
COMPANY ESSO AUSTRALIA LIMITED
WELL PENINSULA 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCAL. IN 8.000
SCAL. TO 8.000
DATA TO 8.000
Elev. 88.25'
GL 0.00'

CALIBRATION DATA







CALIBRATION DATA

COMPANY ESSO AUSTRALIA LIMITED
WELL PENINSULA 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCAL. IN 8.000
SCAL. TO 8.000
DATA TO 8.000
Elev. 88.25'
GL 0.00'