WELL COMPLETION REPORT

KINGFISH-6

Esso Australia Ltd. July, 1975

ESSO AUSTRALIA LIMITED

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P.V. KEMP

February, 1975

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

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PLATES

ESSO STANDARD OIL (AUSTRALIA) LTD.

COMPLETION REPORT

I WELL DATA RECORD

Date 5/2/75

LOCATION

WELL NAME	STATE	PERMIT or LICENCE	GEOLOGICAL BASIN	FIELD
KINGFISH-6	VIC. OFFSHORE	VIC.L/7	GIPPSLAND	KINGFISH

CO-ORDINATES	Lat.	Long.	X	Y	MAP PROJECTION	GEOGRAPHICAL DESCRIPTION
Surface & Bottom Hole	38°35'40.016"S	148° 14' 00.839"E	607,426mE	5,727,490mN	AMG/AGD ZONE 55	1.1 miles SSW of Kingfish-5

ELEVATIONS & DEPTHS

ELEVATIONS	WATER DEPTH	TOTAL DEPTH	
Mean Sea Level KB 28' RT Braden Head Top Deck Platform	258'	M.D. 8386' T.V.D.	Avg.Angle Straight hole
	PLUG BACK DEPTH	REASONS FOR P.B.	
	350'	Abandonment	

DATES

MOVE IN	RIG UP	SPUDDED
30/12/74	31/12/74	1/1/75
RIG DOWN COMPLETE	RIG RELEASED	PROD.UNIT - Start Rigging Up
28/1/75	29/1/75	
PROD.UNIT - Rig Down Complete		I.P. ESTABLISHED

MISCELLANEOUS

OPERATOR	PERMITTEE or LICENCEE	ESSO INTEREST	OTHER INTEREST
ESSO	ESSO - HEMATITE	50%	HEMATITE 50%

CONTRACTOR	RIG NAME	EQUIPMENT TYPE
ATWOOD OCEANICS P/L	REGIONAL ENDEAVOUR	FLOATING D/V

TOTAL RIG DAYS	DRILLING AFE NO.	COMPLETION NO.	TYPE COMPLETION
29.06	234-106		

LAHEE WELL CLASSIFICATION — Before Drilling: FIELD OUTPOST; After Drilling: UNSUCCESSFUL OUTPOST

B A S I C

P. KEMP

Geologist

WELL KINGFISH-6

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 Temper-ature		

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

NOT APPLICABLE

Engineer

WELL: KINGFISH-6

IV	CASING-LINER-TUBING RECORD						
Type	Size	Weight	Grade	Thread	No. Joints	Amount	Depth
	KB ELEVATION ABOVE CASING HEAD					277.00	277.00
	24" Pile Joint					35.35	312.35
	20"	129#	X52LP	JV-CC	1	28.75	341.1
	20"	94#	X52LP	JV	9	310.34	651.44
	20"	129#	X52LP	JV	1 casing + shoe	24.30	675.74
	KB ELEVATION ABOVE HANGER					283.00	283.00
	10-3/4"	40.5#	J-55	Butt	61	2453.81	2736.81
	10-3/4"	40.5#	J-55	Butt	1 + Float Collar + Float Shoe	40.17	2776.98
	13-3/8"x 10-3/4"			Butt	X/Over & Pup	5.13	2782.11

B A S I C

V	CEMENT RECORD		
String	20"	10-3/4"	
Type of Cement	800 sks Aust.N +160 sks Aust.N+2%$CaCl_2$	650 sks Aust N + 250 sks Aust.N+1% $CaCl_2$	
Number of FT^3	1133	1062	
Average Weight of Slurry	15.6 ppg	15.6 ppg	
Cement Top	Sea Floor	1285' calc.	
Casing Tested with	500 psi	1500 psi	
Number of Centralizers	7	10	
Number of Scratchers	-	-	
Stage Collar, etc.	-	-	
Remarks		Tested formation to 13.5 ppg mud equiv. held.	

Engineer

WELL KINGFISH-6

VI SUBSURFACE COMPLETION EQUIPMENT

DATE COMPLETED ______________

Schematic	Equipment Description	Length	Depth

NOT APPLICABLE

______________ Engineer

WELL KINGFISH-6

VII SAMPLES, CONVENTIONAL CORES, SW CORES

INTERVAL	TYPE	RECOVERED	INTERVAL	TYPE	RECOVERED
790-1420	5 sets washed and dried samples and one unwashed sack.	30' interval	8312-7419	30 SWC's	29
1840-2350		30' "	7612-2857	30 SWC's	30
2410-2440		30' "			
2530-4000		30' "	CONVENTIONAL CORE #1		
4000-5655		20' "	5657-5690	Cut 33	33
5690-7200		20' "			
7200-7590		10' "			
7600-7700		10' "			
7700-8386		20' "			
790-8386	One composite canned cuttings sample	Every 100'			

VIII WIRELINE LOGS AND SURVEYS Incl. FIT)

Type & Scale	From	To	Type & Scale	From	To
ISF 2" & 5"	2815	678			
SONIC 2" & 5"	2816	678			
FDC 2" & 5"	2821	678			
GR 2" & 5"	2812	291			
ISF 2"	8332	2787			
ISF/Sonic 5"	8332	2787			
FDC/CNL/GR	8331	2787			
CNL	8331	7519			
HDT	8329	5514			
VELOCITY SURVEY 11 levels	8271	2508			
F.I.T. #1	8130				
F.I.T. #2	7707				
F.I.T. #3	7613				

P. KEMP

Geologist

WELL KINGFISH-6

IX	FORMATION TOPS/Zones					
NAME	Tops		Gross Interval (ft)	Net Pay (ft).		REMARKS
	M.D.	Sub-sea		Gas	Oil	
GIPPSLAND LST.	286	- 258	6315			
LAKES ENTRANCE FM.	6601	-6573	1006			
LATROBE GROUP	7607	-7579	779+			
LTRB. COARSE CLAST.	7611	-7583				
Mid M. diversus Unconformity	7646	-7618				
T.D.	8386	-8358				

INTERPRETATIVE

X GEOLOGIC ANALYSIS (Pre Drilling prognosis Vs actual results)

PRE-DRILL

Kingfish-6 was drilled in a seismically interpreted crestal position on the southern lobe of the eastern extension of the Kingfish field. It was anticipated that Kingfish-6 would intersect approximately 50' of high quality reservoir sands at the top of the Latrobe Group, above the field oil/water contact at 7566 feet subsea.

POST DRILL

The Latrobe Group was penetrated at 7579 feet subsea, 63 feet low to prediction and 13 feet below the Kingfish field oil/water contact 7566 feet subsea. Although this has resulted in a slight reduction of the south-east flank of the Kingfish field, as mapped following the drilling of Kingfish-5, it has established the presence of the East Kingfish extension.

The deviation from pre-drill depths predicted by seismic interpretations is the result of 0.8% error in seismic velocity determination within the complex channelling of the upper Miocene section.

Lithological predictions were generally proved correct with the Latrobe Group consisting of predominantly coarse to very coarse grained, friable sandstones with generally good porosity.

The Mid M. diversus unconformity is interpreted by log character as occurring at 7618 feet subsea, only 39 feet below the top of Latrobe Group. This is significantly thinner than the equivalent sections in Kingfish-5 (150 feet thick) and in Kingfish-1 (155 feet thick). In the east Kingfish area, this unconformity appears to mark the abrupt change from non-marine braided stream deposits immediately below the unconformity, to a more marine-shoreface environment immediately above.

Please note that in the logging of this well Schlumberger have used a cable with incorrectly spaced depth markers. The error was not discovered until after the logging of this well and Flounder-5 was completed. The depths used in this report have been corrected for this error by the addition of 2.5 feet/1,000 feet.

P.V. KEMP
Geologist

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

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APPENDIX 1

SAMPLE DESCRIPTIONS

P.B. EDWARDS

7 January, 1975

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
790 - 820	100	Detrital Limestone, shelly and bryozoan fragments, grey to white, sparry calcite few forams. <5% medium to coarse rounded clear quartz.
820-850	100	As above, very coarse
850-880	100	As above
880-910	100	As above
910-940	100	As above Rare rounded brown shale grains.
940-970	100	As above
970-1000	100	As above
1000-1030	100	As above
1030-1060	100	As above
1060-1090	100	Detrital Limestone, shelly and bryozoan, very coarse fragments, grey to white, sparry calcite fragments. Rounded to subangular. <5% coarse rounded clear quartz.
1090-1120	100	As above
1120-1150	100	As above
1150-1180	100	As above
1180-1210	100	As above
1210-1240	100	Detrital Limestone, shelly and bryozoan fragments. Some grey to white sparry fragments, subangular to rounded. Rare rounded coarse quartz grains.
1240-1270	100	As above
1270-1300	100	As above
1300-1330	100	As above
1330-1360	100	As above
1360-1390	100	As above
1390-1420	100	As above
1420-1840		No return (too fine?) probably as below
1840-1870	100	Calcarenite medium grained, white to grey, friable, bryozoan fragments common. (5% coarse shelly material and quartz probably cavings).
1870-1900	100	As above
1900-1930	100	As above
1930-1960	100	As above

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P.B. EDWARDS

SAMPLE DESCRIPTIONS

7 January, 1975

DEPTH	%	DESCRIPTION
1960-1990	100	As above
1990-2020	100	As above
2020-2050	100	Calcarenite, white to grey, medium grained, friable, many bryozoan fragments (5% assorted shelly fragments, and rounded quartz probably cavings).
2050-2080	100	As above
2080-2120	100	As above
2120-2140	100	As above
2140-2170	100	As above
2170-2200	100	As above
2200-2230	100	As above
2230-2260	100	As above
2260-2290	100	As above
2290-2320	100	Calcarenite, becoming finer and better consolidated. Shelly cavings. Friable grey-white.
2320-2350	100	Fine grained calcarenite, as above
2350-2410		No recovery
2410-2440	70 30	Calcarenite, as above Shell fragments, coarse, subrounded, some forams, quartz grains.
2440-2530		Mudded up. Increase mud weight cleaned hole & returns consisted of large quantities of cavings.
2530-2560	30 70	Calcarenite, as above Fragments as above, note comment above, may be cavings.
2560-2590	50 50	Calcarenite, pale grey, fine to medium grained, semiconsolidat (more than before) clay choked. Detritus shell, bryozoan, foram fragments, some sparry calcite, quartz grains, very coarse, subangular, Cavings (?).
2590-2620	60 40	Calcarenite, as above. Detritus as above
2620-2650	75 25	Calcarenite, as above. Detritus as above
2650-2680	75 25	Calcarenite, as above Detritus as above
2680-2710	50 50	Calcarenite, as above Detritus as above
2710-2740	50 50	Calcarenite as above Detritus as above Sample puggy
2740-2770		Insufficient sample return - would not separate from puggy matrix, probably as above.

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SAMPLE DESCRIPTIONS

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P.B. EDWARDS

7 January, 1975

DEPTH	%	DESCRIPTION
2770-2800		As above
2800-2830		As above
2830-2850		Very poor returns - mostly gumbo like material.
2850-2890		As above
2890-2920		As above
2920-3010		As above, no returns in part. Very poor samples
3010-3040		Sample condition still too poor for description, grey gummy mud.
3040-3070		As above
3070-3100		As above
3100-3130		As above
3100-3130		As above
3130-3160		As above
3160-3190		As above
3190-3220		As above
3220-3250		As above
3250-3270		As above
3280-3310		As above
3310-3340		As above, mostly cavings with gummy mud (probably swollen)
3340-3370		As above
3370-3400		As above
3400-3430		As above
3430-3460		As above
3460-3490		As above
3490-3520	100	Light grey to brown, calcareous siltstone, few forams, still with gummy mud as above.
3520-3550	100	Light grey-brown, calcareous muddy siltstone, as above
3550-3580		As above
3580-3610		As above
3610-3640	100	Light brown-grey, calcareous siltstone, firm high clay content, few forams.
3640-3670	100	As above
3670-3700	100	Siltstone, as above

SAMPLE DESCRIPTIONS

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P.B. EDWARDS

7 January, 1975

DEPTH	%	DESCRIPTION
3700-3730	100	As above
3730-3760	100	As above
3760-3790	100	As above
4790-3820	100	As above
3820-3850	100	As above
3850-3880	100	As above
3880-3910	100	Light grey-brown calcareous siltstone firm, few forams, high clay content, varies to fine sandstone.
3910-3940	100	As above
3940-3970	100	As above
3970-4000	100	As above
4000-4020	100	As above
4020-4040	100	As above
4040-4060	100	As above
4060-4080	100	As above
4080-4100	100	As above
4100-4120	100	As above
4120-4140	100	As above
4140-4160	100	Light grey-brown, calcareous siltsone, glauconitic, few forams, firm, varies to fine sandstone.
4160-4180	100	As above, glauconite, finely divided, some disseminated pyrite.
4180-4200	100	As above
4200-4220	100	As above
4220-4240	100	As above
4240-4260	100	As above
4260-4280	100	As above
4280-4300	100	As above
4300-4320	100	As above
4320-4340	100	As above
4340-4360	100	As above
4360-4380	100	As above
4380-4400	100	As above

DEPTH	%	DESCRIPTION
4400-4420	100	Grey to brown siltstone, slightly glauconitic, firm.
4420-4440	100	As above
4440-4460	100	As above
4460-4480	100	As above
4480-4500		As above with occasionally more clayey portions.
4500-4560		As above
4560-4640		As above, with minor amounts of very clayey pale grey siltstone
4640-4660		As above, mostly cavings, milling on junk
4660-4720	100	As above, Siltstone, very rare arenaceous marls.
4720-4760		As above
4760-4780		As above
4780-4820		As above
4820-4860		As above

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SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
4860-4880	100	Siltstone, medium grey, very calcareous, firm, unbedded Trace fossil fragments
4880-4900	100	Siltstone, medium grey, very calcareous, firm Trace fossil fragments
4900-4920	100	Siltstone, as above Trace fossil fragments
4940-4960	100	Siltstone, as above Trace fossil fragments
4960-4980	100	Siltstone, as above Trace Marl, light grey, very calcareous, soft Trace fossil fragments
4980-5000	100	Siltstone, light to medium grey as above, some glauconite Trace fossil fragments Trace Pyrite
5000-5020	90 10	Siltstone, as above Coal, black, dull, earthy, soft Trace fossil fragments, bryzoa Trace Marl, light grey, very calcareous, soft
POH 5020-5080	80 20	Siltstone, as above Marl, as above Trace Coal Trace fossil fragments
5080-5100	50 50	Siltstone, as above Marl, light grey, very calcareous, soft, some glauconite Trace Coal Trace fossil fragments
5100-5120	15 80 5	Sandstone, white - light grey, very fine grained glauconitic, very calcareous, firm Siltstone, medium grey, very calcareous, firm, unbedded Marl, light grey, soft, very calcareous Trace Coal, as above Trace fossil fragments, as above
5120-5140	20 80	Sandstone, as above poorly sorted Siltstone, as above Trace Sandstone, fine-medium grained, very glauconitic, calcareous, light grey-green. Trace Marl Trace fossil fragments
5140-5160	30 70	Sandstone, light grey, very fine grained as above Siltstone, as above Trace Sandstone, glauconitic, as above Trace fossil fragments Trace Coal
5160-5180	50 50	Sandstone, very fine grained, poorly sorted, glauconitic, calcareous white-light grey Siltstone, medium grey as above Trace fossil fragments

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SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
5180-5200	50	Sandstone, as above
	50	Siltstone, as above
		Trace Sandstone, fine-medium grained, very glauconitic
		Trace fossil fragments
		Trace Coal
5200-5220	50	Sandstone, as above
	50	Siltstone, as above
		Trace Marl, light grey, very calcareous, soft
		Trace fossil fragments, related forams, votaloid bryoza
		Trace Sandstone, fine grained, grey green, very glauconitic, calcareous
5220-5240	50	Sandstone, very fine-fine grained, white-light grey, poorly sorted firm
	50	Siltstone, as above
		Trace Marl, as above
		Trace fossil fragment, as above
		Trace Sandstone, fine-medium grained, grey green, very glauconitic, calcareous, poorly sorted.
5240-5260	40	Sandstone, as above
	60	Siltstone, as above
		Trace Marl, as above
		Trace fossil fragments, as above, some gastropods
		Trace Coal
5260-5280	50	Sandstone, as above
	50	Siltstone, as above
		Trace Marl, as above
		Trace fossil fragments, as above
		Trace Sandstone, very glauconitic, grey green, medium grained
		Trace Coal
5280-5300	50	Sandstone, as above
	50	Siltstone, as above
		Trace Marl, as above
		Trace Glauconitic Sandstone, as above
		Trace fossil fragments, as above
		Trace Coal
5300-5320	60	Silstone, as before, with carbonaceous specks
	40	Sandstone, as above, silty-very fine grained, calcaroues
		Trace 5% coarse shell fragments
		Trace Glauconitic Sandstone, fine-occasionally medium grained, as above
5320-5340	70	Siltstone, as above
	25	Sandstone, as above
	5	Coal
		Trace shell fragments
		Rare quartz grain, coarse grained, rounded
5340-5360	60	Siltstone, as above
	40	Sandstone, as above
		Trace Coal
5360-5380	70	Siltstone, as above
	30	Sandstone, as above
		Trace 5% Coal

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
5380-5400	70	Siltstone, as above
	30	Sandstone, as above
		Trace Coal
5400-5420	70	Siltstone, as above
	25	Sandstone, as above
	5	Shell fragments, pyrite and occasional quartz grains, coal, as above
5420-5440	80	Siltstone, as above
	20	Sandstone, as above
5440-5460	80	Siltstone, as above
	20	Sandstone, as above
5460-5480	70	Siltstone, as above
	25	Sandstone, as above
	5	Coal, as above
		Trace fossil fragments
5480-5500	70	Siltstone, medium grey, calcareous, glauconitic, hard
	30	Sandstone, white-light grey, calcareous, very fine-fine grained, silty, carbonaceous, glauconitic, subangular
5500-5520	60	Siltstone, as above
	30	Sandstone, as above
	10	Coal, black, dull, soft, earthy
5520-5540	70	Siltstone, as above, some very glauconitic
	30	Sandstone, as above
		Trace Coal, as above
		Trace fossil fragment, bryzoa, brivalves
5540-5560	70	Siltstone, as above
	30	Sandstone, as ab ove
		Trace Coal, as above
5560-5580	80	Siltstone, as above
	20	Sandstone, as above
		Trace Coal
		Trace fossil fragments, bivalves, benthonic foram
5580-5600	60	Siltstone, as above
	40	Sandstone, as above
		Trace Coal
		Trace fossil fragments, gastropods, bivalves
5600-5620	60	Siltstone, as above, some very glauconitic
	40	Sandstone, as above
5620-5640	70	Siltstone, as above
	30	Sandstone, as above
		Trace ?Limestone, light brown, very hard, dense calcareous, very fine grained
5640-5690	30	Sandstone, as above
	70	Siltstone, as above

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SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
5690-5720	60	Siltstone, very calcareous, as above
	10	Sandstone, very fine grained, silty, very calcareous
	30	Limestone, silty, very hard as in Core #1, as above
5720-5740	60	Siltstone, as above
	40	Limestone, as above
		Trace shell fragments and coal
5740-5760	60	Limestone, as above
	40	Siltstone, as above
5760-5780	60	Siltstone, as above
	40	Limestone, as above
		Trace Coal and shell fragments
5780-5800	60	Siltstone, as above
	40	Limestone, as above
5800-5820	70	Siltstone, as above
	30	Limestone, as above
5820-5840	70	Siltstone, as above
	30	Limestone, as above
5840-5860	30	Limestone, as above
	65	Siltstone, as above
	5	Coal
		Trace shell fragments
5860-5880	100	Calcareous Siltstone or Silty Micritic Limestone
5880-5900	100	Siltstone, as above
5900-5920	100	Siltstone, as above
5920-5940	70	Siltstone, as above
	30	Limestone, as above
5940-5960	70	Siltstone, as above
	30	Limestone, as above
5960-5980	60	Siltstone, medium grey, firm
	40	Limestone, hard, dense, micritic, silty
		Trace Coal, as above
5980-6000	50	Siltstone, firm, medium grey, calcareous
	50	Limestone, hard, dense, micritic, silty
6000-6020	70	Limestone, as above) ? Base of Channel
	30	Siltstone, as above)
6020-6040	60	Limestone, as above
	40	Siltstone, mixture of hard and soft siltstone, medium grey, calcareous, glauconitic
		Trace Marl, light grey, soft, glauconitic

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SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
6040-6060	60	Siltstone, mixture of hard and soft, as above
	40	Limestone, as above
		Trace Marl, as above
		Trace Coal, as abov e
6060-6080	60	Siltstone, as above
	40	Limestone, as above
		Trace 5% Marl, as above
6080-6100	55	Siltstone, becoming mainly soft siltstone, medium grey, calcareous glauconitic
	30	Limestone, as above
	15	Marl, soft, light grey, calcareous, glauconitic
6100-6120	70	Limestone, as above
	30	Siltstone, as above, firm
		Trace Marl
6120-6140	60	Siltstone, as above
	40	Limestone, as above
6140-6160	40	Marl, as above
	40	Siltstone, as ab ove
	20	Limestone, as above
6160-6180	70	Marl, as above
	20	Siltstone, as above, firm and soft siltstone
	10	Limestone, as above
6180-6200	90	Marl, as above
	10	Siltstone, as abov e
		Trace Sandstone, medium grained very glauconitic, calcareous
		Trace Limestone, as above
6200-6220	10	Siltstone, mainly soft
	90	Marl, as above
6220-6240	100	Marl, as above
		Trace Siltstone, as above
6240-6260	90	Marl, as above
	10	Siltstone, as above
6260-6280	80	Marl, as above
	20	Siltstone, soft to firm, calcareous, glauconitic
6280-6300	70	Marl, as above
	30	Siltstone, as above
6300-6320	60	Marl, as above
	40	Siltstone, as above
		Trace glauconitic Sandstone
6320-6340	70	Marl, as above
	30	Siltstone, as above
6340-6360	80	Marl, as above
	10	Siltstone, as above
	10	Shale-Mudstone, subfissile, soft-firm, medium grey, very calcareou slightly silty
		Trace Coal

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SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
6360-6380	70	Marl, as above
	10	Siltstone, as above
	10	Shale, as above
	10	Coal
6380-6400	100	Shale, medium grey, firm, very calcareous, micromicaceous, subfissile, slightly pyritic, slightly carbonaceous, Trace glauconite, microfossils Trace Coal Trace Foram - round Miliolina: ?Glomospira
6400-6420	100	Shale, as above
6420-6440	100	Shale, as above
6440-6460	100	Shale, as above
6460-6480	100	Shale, as above
6480-6500	100	Shale, as above Foram - rotalid
6500-6520	100	Shale, as a bove
6520-6540	100	Shale, as above Foram, rotalid-benthonic
6540-6560	100	Shale, as above
6560-6580	100	Shale, as above
6580-6600	100	Shale, as above Numerous small calcareous benthonic forams
6600-6620	100	Shale, as above Trace forams, numerous small benthonic forams calcareous
6620-6640	100	Shale, as above Trace Forams, as above
6640-6660	90	Shale, as above
	10	Siltstone, as above Trace Forams, as above
6660-6680	100	Shale, as above Trace Forams, as above
6680-6700	100	Shale, as above
6700-6720	80	Shale, as above
	20	Siltstone, as above, firm
6720-6740	80	Shale, as above
	10	Siltstone, as above
	10	Sandstone, fine grained, light grey, silty, firm, calcareous

KINGFISH-6

12/18

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
6740-6760	80	Shale, as above
	10	Siltstone, as above
	10	Sandstone, as above
6760-6780	60	Shale, as above
	15	Siltstone, as above
	15	Coal, black, firm, silty
	10	Sandstone, as above
6780-6800	80	Shale, as above
	10	Siltstone, as above
	10	Marl, as above
		Trace Sandstone, as above
		Trace Coal, as above
6800-6820	80	Shale, medium grey, subfissile, calcareous, silty, glauconitic, pyritic, carbonaceous, fossiliferous
	10	Siltstone, light to medium grey, calcareous, glauconitic
	10	Forams, small calcareous benthonic forams some planktonic-like forams, Miliolina
6820-6840	90	Shale, as above
	10	Siltstone, as above
		Trace Forams, as above
6840-6860	90	Shale, as above, foram rich
	10	Siltstone, as above
		Trace Forams, as above
6860-6880	90	Shale, as above
	10	Siltstone, as above
		Trace Forams, Nodosoria, as above
6880-6900	100	Shale, as above
		Trace Sandstone, fine grained, poorly sorted, slightly glauconitic, calcareous
		Trace Pyrite
		Trace Forams, as above
6900-6920	100	Shale, as above
		Trace Sandstone, as above
		Trace Forams, as above
6920-6940	100	Shale, as above
		Trace Sandstone, as above, glauconitic
		Trace Forams, as above
6940-6960	100	Shale, as above
		Trace Sandstone, as above
		Trace Forams, as above with Ammodiscus
6960-6980	100	Shale, medium dark grey, very carbonaceous, foram rich, glauconitic slightly pyritic, subfissile, firm
		Trace Sandstone, fine grained, light grey, quartz, calcareous
		Trace Forams, calcareous benthonic? Cibicides
6980-7000	100	Shale, as above
		Trace Forams, as above, abundant

13/18

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
7000-7020	100	Shale, as above Trace forams - abundant
7020-7040	100	Shale, as above Trace Forams, as above Trace Sandstone, as above
7040-7060	100	Shale, as above, micaceous Trace Forams, as above
7060-7080	100	Shale, as above Trace Pyrite Trace Sandstone, as above Trace Forams, some nodosarids, ? Margulina
7080-7100	100	Shale, as above Trace Sandstone Trace Forams, nodosarids, small calcareous benthonics
7100-7120	100	Shale, as above
7120-7140	100	Shale, as above
7140-7160	100	Shale, as ab ove, some green grey
7160-7180	100	Shale, as above Trace Forams - Milolina, nodosarids, rotalids
7180-7200	100	Shale, as above
7200-7210	100	Shale, as above
7210-7220	100	Shale, as above
7220-7230	90 10	Shale, as above Siltstone, light grey, very calcareous
7230-7240	90 10	Shale, as above Siltstone, as above Abundant loose forams (5%)
7240-7250	90 10	Shale, as above Siltstone, as above
7250-7260	85 10 5	Shale, as above Siltstone, as above Loose forams
7260-7270	85 10 5	Shale, as above Siltstone, as above Forams
7270-7280	100	Shale, as above
7280-7290	95 5	Shale, as above Siltstone, as above
7290-7300	100	Shale, as above Loose Forams

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
7300-7310	100	Shale, as above
7310-7320	80	Shale, as above
	20	Siltstone, as above
7320-7330	80	Shale, as above
	20	Siltstone, as above
7330-7340	80	Shale
	15	Siltstone
	5	Loose forams
7340-7350	75	Shale, as above
	25	Siltstone, as above
7350-7360	80	Shale
	20	Siltstone
7367' CIRC	75	Shale
	15	Siltstone
	10	Loose forams
7367'NB (X3A)		
7367-7370	100	Shale, very silty, calcareous, light grey to medium grey, firm, subfissile, trace fossils, tending to calcareous siltstone, trace coal (?), black, granular in part
7370-7380	100	Silty Shale, very silty, pyritic Trace Coal, conchoidal fracture in part Trace Siltstone, quartzose, light brown grey, calcareous
7380-7390	100	Silty Shale, light grey to medium grey, pyritic, calcareous, Trace Coal, as above Trace Siltstone, as above, foraminifera present
7390-7400	100	Silty shale, very silty, very light grey to medium grey, calcareous Trace Coal, as above Trace Siltstone, as above
7400-7410	100	Silty Shale, as above, foraminifera present, slightly pyritic Trace Coal Trace Siltstone, as above
7410-7420	80-90	Silty Shale, as above, trace calcareous fossils
	10-20	Coal
7420-7430	60	Silty Shale, as above
	20	Siltstone, as above, single subangular, broken quartz grain
	20	Coal
7430-7440	60	Silty Shale, as above
	20-30	Siltstone, as above, rare quartz grain
	10-20	Coal
7440-7450	80	Silty Shale, as above, rare quartz grain
	10	Siltstone, as above, rare calcareous fossil
	10	Coal, as above
7450-7460	50	Silty Shale, as above
	40	Siltstone, as above, trace pyrite, foraminifera present
	10	Coal

SAMPLE DESCRIPTIONS

15/18

DEPTH	%	DESCRIPTION
7460-7470	70	Silty Shale, as above
	20-30	Siltstone, as above
	10-20	Coal
7470-7480	60	Silty Shale, as above
	30	Siltstone, as above
	10	Coal
7480-7490	60	Silty Shale, light to medium grey, sub-fissile, calcareous, firm, foraminifera present
	30	Siltstone, light to very light grey, non-fissile, quartzose, calcareous, rare quartz fragments, subangular
	10	Coal, conchoidal fracture in part, lignitic in part
7490-7500	60	Silty Shale, as above
	30-40	Siltstone, as above
	5-10	Coal
7500-7510	60	Silty Shale, as above
	30-40	Siltstone, as above, rare sub-rounded quartz grain, slightly pyritic
	0-10	Coal
7510-7520	60	silty Shale, as above
	40	Siltstone, as above
		Trace coal
7520-7530	80	Silty Shale, as above
	20	Siltstone, as above
		Trace Sandstone, light grey, quartzose, glauconitic, pyritic, very fine grained
		Trace Coal
7530-7540	60	Silty Shale, as above
	40	Siltstone, as above
		Trace Sandstone, as above
7540-7550	50	Silty Shale, as above
	50	Siltstone, as above, rare quartz grain
		Trace Sandstone, as above
7550-7560	100	Silty Shale, tending to siltstone, light to medium grey, sub-fissi in part, trace pyrite
		Trace Sandstone, as above
7560-7570	100	Silty Shale tending to Siltstone, as above, foraminifera present, glauconitic, rare quartz grain
		Trace Sandstone, as above
7570-7580	100	Silty Shale, tending to siltstone, as above, foraminifera present, glauconitic, rare quartz grain
		Trace sandstone, as above
7580-7590	100	Silty Shale, tending to siltstone, as above, glauconitic in part

7600-depth	corr. No	Sample

16/18

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
7600-7610	100	Silty Shale tending to siltstone, very pyritic in part, rare rounded quartz grain, light brown colour Trace glauconitic siltstone tending very fine grained sandstone
7620-7630	100	Silty Shale, tending to siltstone, as above, 10-20 large (approximately 1mm) quartz grains, some with pyrite, white to clea subangular to subrounded Trace Sandstone, very fine grained, glauconitic
Drilling	Break Started 7630'	
7630-7640	70	Sand, coarse to very coarse grained (maximum dimension 2mm), frosted to clear, mostly subrounded to well rounded some grains broken, slightly pyritic, grains sub-spherical to elongated
	30	Shale to siltstone, as above
7640-7650	80	Sand, as above
	20	Shale to siltstone, as above
7650-7660	90	Sand, as above
	10	Shale to siltstone, as above Trace glauconitic siltstone
7660-7670	80	Sand, as above, some granule size grains (i.e., 2-4mm)
	20	Shale to siltstone, as above
7670-7680	80	Sand, as above, trace pink quartz grains
	20	Shale to siltstone, as above, pyritic
7680-7690	90	Sand, as above, trace glauconite
	10	Shale to siltstone, as above, trace glauconite
7690-7700	90	Sand, as above
	10	Shale to Siltstone, as above
Change to	20' samples	
7700-7720	90-100	Sand, as above
	0-10	Shale to siltstone, as above
7720-7740	100	Sand, quartzose, white, frosted, medium to very coarse and granul rounded to well rounded, unconsolidated No show Trace silty shale cavings
7740-7760	100	Sand, as above Trace glauconite, trace silty shale cavings, slightly pyritic
7760-7780	100	Sand, as above Trace glauconite, trace silty shale cavings
NB J-22	@ 7826	
7780-7820 (L.A.T.)	70	Sand, unconsolidated, medium to granular, quartz, clear to froste trace pyrite, rare glauconite, subrounded to well rounded, fair t good sorting, no show
	20	Silty Shale) as previously, probably cavings
	10	Siltstone)

17/18

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
7820-7840	100	Sand, medium to very coarse, trace pyrite, glauconite, (possible trace greensand), clear, unconsolidated, no show
7840-7900	100	Sand, as above Trace Sandstone, very fine grained, glauconitic, pyritic (possible "greensand") Trace silty Shale, probably cavings
7900-8000	100	Sand, trace grey chert, quartzose, clear to white, subangular to rounded, medium to very coarse grained, loose clean, no show
8000-8020	100	Sand, white to clear, frosted, very coarse to medium granule size, subrounded, sub-spherical to elongate, trace glauconite, loose, no shows. Trace silty Shale - cavings
8020-8040	100	Sand, as above
8040-8060	100	Sand, as above
8060-8080	90 10	Sand, as above silty Shale Trace Sandstone, white to light grey, fine grained, poorly cemente quartzose, fairly well sorted, poor porosity, no show
8080-8100	90 10	Sand, as above Silty Shale Trace Sandstone, as above
8100-8120	80 10 10	Sand, as above Silty Shale Sandstone, white to medium grey, fine to medium grained, poorly cemented, quartzose, fairly well sorted, poor porosity, no show, subangular to subrounded, moderately firm, Trace Mica Trace Glauconite
8120-8140	80 20	Sand, as above Siltstone, shaly, light brown grey to grey, slightly calcareous, quartzose, moderately firm. Trace Sandstone, as above
8140-8180	100	Sand, quartzose, medium to very coarse grained, subangular to roun fair sorting, loose, clean, good porosity, no show, occassional pyrite, cherty quartz Trace Coal, black, lignitic, slightly firm
8180-8200	90 5 5	Sand, as above Silty Shale Coal, lignitic
8200-8220	100	Sand, pyritic in part, clear to grey, slightly cherty in part, coarse to granular, rounded, well sorted, loose, clean, good porosity, no show
8220-8240	100	Sand, medium to very coarse, fair to good sorting, subangular to rounded, good porosity, no show, trace pyrite
8240-8260	100	Sand, medium to very coarse grained, tends to be bimodal with medium grains and very coarse to medium granule grains, fair to good sorting, subrounded to subangular, good porosity, no show Trace Silty Shale

KINGFISH-6

18/18

SAMPLE DESCRIPTIONS

DEPTH	%	DESCRIPTION
8260-8280	100	Sand, as above Trace Pyrite
8280-8300	100	Sand, very pyritic, more angular, pyritic cement, silty in part, clear to grey
8300-8320	80	Sand, pyritic, white to grey
	20	Siltstone, shaly, pyritic in part, grey (slight brown-grey and green-grey in part), calcareous
8320-8340	80	Sand, slightly pyritic, as above
	10	Sandstone, slightly silty, fine, moderately cemented quartzose, slightly glauconitic, poor to fair porosity, no show
	10	Silty Shale
8340-8360	50	Sand, as above
	50	Siltstone, very sandy tending to sandstone, brown grey, slightly firm, poor to fair porosity, no shows, quartzose, very slightly calcareous, pyritic in part Trace glauconite
8360-8386	60	Sand, clear to grey quartz, medium to very coarse, subrounded to rounded, fair to good sorting, good porosity, common glauconite, trace pyrite, no show
	40	Siltstone tending to fine Sandstone, brown grey, slightly firm, glauconitic, slightly calcareous in part, pyritic
		T.D. 8386 feet Circulate BU POOH to log.

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

APPENDIX 2

SIDEWALL CORE DESCRIPTION

PAGE 1 OF 5 ATT 60 REC 59 DATE 24-1-75

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO 2 SWC RUN NO 1

WELL KINGFISH-6
GEOLOGIST McKAY-KEMP
SERVICE CO. SCHLUMBERGER

NO.	DEPTH	REC	ROCK TYPE	MODIFIERS	CAL	COLOR	INDUR DEG	GRAIN SIZE	SRTG	RND	DISS CLAY	STAIN	FLOURESCENCE %	FLOURESCENCE DISTR	FLOURESCENCE INTEN	FLOURESCENCE COLOR	CUT FLUOR. INTEN	CUT FLUOR. COLOR	CUT RESIDUE QUAN	CUT RESIDUE COLOR	SHOW	PROB PROD	REMARKS - GAS
1a	1	2	3	4	5	6	7	8	9	10	11	12	RK	14	15	16	17	18	19	20	21	22	23
1	8292	3/4"	Silty Sandstone	Quartzose, tr. glauconite, mica, shale streaks	non	medium grey brown clay	sli. firm	silty to fine grain	fair	s.a. s.r.	clay matrix	no	—	—	—	—							Poor-fair porosity
	8312																						
2	8260	1"	Sandstone	Quartzose, very pyritic quartz, silt matrix	non	light-medium grey	soft-friable	medium - very coarse	poor to fair	s.r. w.r.	—	no	—	—	—	—							fair to good porosity
	8281																						
	8137																						
3	8117	—	P.O.																				
4	8076	½"	Silty sandstone	Quartzose, micaceous, occasional quartz	non	light grey	slightly firm	silty to fine				no	—	—	—	—							
	8096																						
5	7997	3/4"	SS	Quartzose glauconitic	sli	light green grey	sli. firm - friable	fine to granular	poor	s.r. to r.	minor	no	tr	—	—	—	slow weak						fair-good porosity C_1 - 50ppm
	8017																						
6	7956	3/4"	Silty sandstone	Quartzose, glauconitic, micaceous	non	gy speckled	sli. firm	slt-fine	fair		minor	no	—	—	—	—							C_1 - 200ppm
	7976																						
7	7882	1"	Sandstone	Quartzose, glauconitic, micaceous, quartz silt matrix,	non	light grey	slightly firm	fine to very coarse	fair-poor	sa-r	minor	no	—	—	—	—							C_1 - 200ppm
	7902																						
8	7818	1¼"	Sandstone	Glauconitic, pyritic	non	green grey	slightly firm	fine-very coarse	poor-fair	sa	—	no	tr	sptty	weak	yellow	weak	yellow white	—	—			fair-good porosity C_1 - 100ppm
	7838																						
9	7695	3/4"	Sandstone	Qtz silt matrix, tr. glauconite	non	lt gy m gy	very friable	m-vc	fair	sa-sr	—	no		patchy	dull	yellow	slow weak	faint	—	—			
	7714																						
10	7684	1¼"	Sandstone	clean, qtzose		lt gy	ext. friable	m-vc	fair	sr-r	—	no		nil	—	—	nil	—					very good porosity C_1 - 300ppm
	7703																						
11	7675	¾"	SS	minor qtz silt ma, tr. glauconite	m	lt gy m gy	friable	f-vc	fair	sa-sr	minor	no		nil	—	—	—	—					C_1 - 200ppm
	7694																						
12	7630	3/4"	Silty SS	qtzose, tr. glauconite, tr. pyrite	non	white -lt gy	sli. firm-friable	f-vc	p-f	sa	—	no		patchy even	mod.	yellow	weak	faint					fair-good porosity C_1 - 300ppm
	7649																						

PLEASE NOTE : CORRECT DEPTHS UNDERSCORED - CORRECTED FOR SCHLUMBERGER DEPTH ERRORS

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PAGE 2 OF 5

ATT 60 REC 59

DATE 24/1/75

SWC RUN NO 1

IES RUN NO 2

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

WELL KINGFISH-6

GEOLOGIST McKAY/KEMP

SERVICE CO SCHLUMBERGER

NO.	DEPTH	REC	ROCK TYPE	MODIFIERS	CAL	COLOR	INDUR DEG	GRAIN SIZE	SRTG	RND	DISS CLAY	STAIN	FLOURESCENCE %	FLOURESCENCE DISTR	FLOURESCENCE INTEN	FLOURESCENCE COLOR	CUT FLUOR. INTEN	CUT FLUOR. COLOR	CUT RESIDUE QUAN	CUT RESIDUE COLOR	SHOW	PROB PROD	REMARKS - GAS
1a	1	2	3	4	5	6	7	8	9	10	11	12	RK	14	15	16	17	18	19	20	21	22	23
13	7621	3/4"	SS	Qtz,occ. c. qtz grs, pyr	v. sli	lt.gy md.gy	sl. firm friable	v.f.	f	sr-r	--	no	tr	spotty	——	——	nil						fair porosity C_1 - 200ppm
	7640			tr. glauc.																			
14	7614	1"	SS	qtz. slt. ma	sli	lt.gy md.gy	v. friable	m-vc	f-p	sa sr	mi	no	—	——	——	——							fair-good porosity C_1 - 400ppm
	7633																						
15	7609	1"	silty SS	rare c.qtz. gr. tr. pyr.	non	lt.-m gy	v. friable	silty - f.	g	sa sr	-	no		spotty	weak	yellow	nil						fair-good porosity C_1 - 600 ppm
	7628			tr. glauc.																			
16	7607	3/4"	SS	qtzose,tr. pyr. tr.glauc	non	lt.gy	v.friable	f-vc	g	sa	-			spotty	weak	yellow	nil						fair-good porosity C_1 - 300ppm
	7626																						
17	7600	3/4"	silty SS	rare c.qtz. gr, tr.pyr.	non	lt.gy	sli. firm- friable	silt-m	f-p	sa	minor		tr										C_1 -200ppm
	7619			tr. glauc.																			
18	7597	1"	SS	qtz slt ma, tr. glauc,	non	lt.gy	friable - sli. firm	f-vc	p-f	sa-sr	minor	no	tr	spotty	weak	dull yellow	v.sli						fair porosity C_1 - 100ppm
	7616			tr. pyr. tr. mica																			
19	7595	1"	SS	clean qtz slt matrix,	non	lt.gy v.lt gy	friable	f-vc	p-f	sr-r	—	no	-	patchy -even	mod	yellow white	slow weak	yellow					good porosity C_1 - 50ppm
	7614			qtzose																			
20	7590	1¼"	SS	qtz.slt.ma, tr.py, tr.	non	lt.-m gy	sli. firm	m-vc	p-f	sa-sr	minor	no		patchy	mod	yellow white	faint	yellow					fair porosity C_1 - 100 ppm
	7609			glauconite																			
21	7588	3/4"	SLTST	rare m.qtz. grn, heavily	hig-hly	grn-lt gy	sli. firm	silt	v.p.	sa	mod			patchy	mod	yellow white	fair	yellow white					
	7607			glauc. pyr.																			
	7603																						
22	7584	2"	SLTY SH	s.fissile, silty	mod	ol.gy	sli. firm	slt-clay	p														
23	7580	1½"	SLTY SH	s. fissile, silty	mod	ol.gy	sli. firm	slt-clay	p														
	7599																						
24	7576	1-¾"	SH	s.fissile, tends to	mod	ol.gy dk.gy	sli. firm	clay	g														
	7595			claystone																			
25	7570	2"	SILTY SH	s.fissile,tr. pyr. tends to clyst.	sli	ol.gy dk.gy	mod. firm	silt-clay	f-p														
	7589																						
26	7562	1¼"	SLTY SH	s.fissile tends to	mod	md-dk gy	mod. firm	silt-clay	f-p														
	7581			claystone		"																	

FORM R 257 3/72

PLEASE NOTE :- CORRECT DEPTHS UNDERSCORED - CORRECTED FOR SHCLUMBERGER DEPTH ERRORS

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

WELL KINGFISH-6 SWC RUN NO
GEOLOGIST McKAY-KEMP DATE 24.1.75
SERVICE CO SCHLUMBERGER ATT 60 REC 59
PAGE 3 OF 5

NO.	DEPTH	REC	ROCK TYPE	MODIFIERS	CAL	COLOR	INDUR DEG	GRAIN SIZE	SRTG	RND	DISS CLAY	STAIN	FLOURESCENCE % RK	FLOURESCENCE DISTR	FLOURESCENCE INTEN	FLOURESCENCE COLOR	CUT FLUOR. INTEN	CUT FLUOR. COLOR	CUT RESIDUE QUAN	CUT RESIDUE COLOR	SHOW	PROB PROD	REMARKS - GAS
1a	1	2	3	4	5	6	7	8	9	10	11	12		14	15	16	17	18	19	20	21	22	23
27	7552	1½"	SLTY CLYST	non-fissile minor slt	mod	md.gy	mod. firm	silt-clay	f														
	7571																						
28	7538	1½"	SLTY CLYST	non-fissile rare dk ang-	hi-ghly	md.gy	mod. firm	clay-slt	v.p.														
	7557			ular v.c. qtz. grs.				v.c.															
29	7500	1½"	CLYST	non-fissile rare sl.slty	high-ly	m-dk gy	mod firm	clay-silt	f														
	7519			forams																			
30	7400	1¼"	SH	sub-fissile sl.slty,tends	hig-hly	m.gy lt.ol gy	sli. firm	clay silt	f														
	7419			to clyst.																			
Gun 2																							
31	7593	½"	SS	heavily pyr, tr.glauc.	mod	white-m.gy	fria-ble-sli firm	m-vc	p	a-sa	minor	no	—	—	—	—	—	—					good porosity C_1 - 100ppm
	7612																						
32	7300	3/4"	SH	sub-fissile, tends to	hi-gh ly	lt.ol gy	sli. firm	clay	g														
	7318			clyst																			
33	7200	1"	CLYST	non-fissile rare fgr.	high-ly	lt.ol gy	mod. firm	clay& f.gr.	f	w.r qtz													
	7218			qtz.grain																			
34	7100	1-3/4"	CLYST	sub-fissile tends to sh	hig-hly	lt.ol gy	mod. firm	clay& f.gr.	f	sr qtz													
	7118			rare fgr qtz																			
35	7000	1½"	CLYST	non-fissile, tr. mi.	"	lt.ol gy	soft	clay	g														
	7018																						
36	6900	½"	CLYST	non-fissile tr mi, tr.	"	lt.ol gy	mod. firm	clay-slt	f														
	6917			slt, forams present																			
37	6750	1½"	CLYST	sub-fissile tends to sh.	"	lt.ol gy	sli. firm	clay	g														
	6767			trace mica																			
38	6595	1½"	CLYST	non-fissile sli.silty	"	lt.ol gy	sli. firm	clay-slt	f														
	6611					"																	

FORM R 257 3/72

PLEASE NOTE :- CORRECT DEPTHS UNDERSCORED - CORRECTED FOR SCHLUMBERGER DEPTH ERRORS

PAGE 4 OF 5
ATT 60 REC 59
DATE 24/1/75

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO ..... SWC RUN NO .....

WELL KINGFISH-6
GEOLOGIST McKAY-KEMP
SERVICE CO SCHLUMBERGER

NO.	DEPTH	REC	ROCK TYPE	MODIFIERS	CAL	COLOR	INDUR DEG	GRAIN SIZE	SRTG	RND	DISS CLAY	STAIN	FLOURESCENCE % RK	FLOURESCENCE DISTR	FLOURESCENCE INTEN	FLOURESCENCE COLOR	CUT FLUOR. INTEN	CUT FLUOR. COLOR	CUT RESIDUE QUAN	CUT RESIDUE COLOR	SHOW	PROB PROD	REMARKS - GAS
1a	1	2	3	4	5	6	7	8	9	10	11	12		14	15	16	17	18	19	20	21	22	23
39	6575	1½"	CLYST	non-fissile, sli-silty	hig -hly	lt.ol gy	mod. firm	clay-slt	f														
	6591																						
40	6500	1-3/4"	SH	sub-fissile, tends to dyst	"	lt.ol gy-mgy	soft	clay	g														
	6516																						
41	6400	1½"	CLYST	sub-fissile	"	lt.ol gy	mod. firm	clay	g														
	6416																						
42	6300	1¼"	CLYST	non-fissile tr.mi,sli. silty	"	lt.ol gy-ol. gy	mod. firm	clay -silt	g														
	6316																						
43	6200	1½"	CLYST	non-fissile tr. mica	"	lt.ol gy-ol. gy	mod. firm	clay	g														
	6216																						
44	6100	1½"	CLYST	non-fissile-sub-fissile	"	lt.ol. gy	sli. firm-soft	clay	g														
	6115																						
45	5990	1¼"	CLYST	non-fissile	"	"	mod. firm	clay	g														
	6005																						
46	5975	½"	CLYST	non-fissile silty, tr. glauconite	"	"	mod. firm	clay -slt	f														
	5990																						
47	5900	1¼"	CLYST	non-fissile	"	"	sli. firm	clay	g														
	5915																						
48	5750	3/4"	CLYST	non-fissile tr.glauc. tr. silt	"	"	sli. firm	slt& clay	f														
	5764																						
49	5500	3/4"	CLYST	sub-fissile tr. glauc.	"	"	mod. firm	clay	g														
	5514																						
50	5300	½"	CLYST	sub-fissile tends to sh	"	"	sli. firm	clay -slt	f														
	5313			tr.glauc. tr. silt																			
51	5000	3/4"	SLTY CLYST	sub-fissile v.slty, tr. glauconite	"	"	sli. firm-soft	slt-clay	f-p														
	5012																						

FORM R 257 3.72

PLEASE NOTE :- CORRECT DEPTHS UNDERSCORED - CORRECTED FOR SCHLUMBERGER DEPTH ERRORS

PAGE 5 OF 5
ATT 60 REC 59
DATE 24/1/75

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO ..... SWC RUN NO .....

WELL KINGFISH-6
GEOLOGIST McKAY-KEMP
SERVICE CO SCHLUMBERGER

PAGE 5 OF 5

ATT 60 REC 59

DATE 24/1/75

ESSO AUSTRALIA LTD.

SIDEWALL CORE DESCRIPTIONS

IES RUN NO ..... SWC RUN NO .....

WELL KINGFISH-6

GEOLOGIST McKAY-KEMP

SERVICE CO SCHLUMBERGER

NO.	DEPTH	REC	ROCK TYPE	MODIFIERS	CAL	COLOR	INDUR DEG	GRAIN SIZE	SRTG	RND	DISS CLAY	STAIN	FLOURESCENCE				CUT FLUOR.		CUT RESIDUE		SHOW	PROB PROD	REMARKS - GAS
													%	DISTR	INTEN	COLOR	INTEN	COLOR	QUAN	COLOR			
1a	1	2	3	4	5	6	7	8	9	10	11	12	RK	14	15	16	17	18	19	20	21	22	23
52	4825	1"	SLTST	v. clayey, tr. glauc.	high-ly	v.lt. gy	sli. firm	slt-clay	f-p		mod												
	4837																						
53	4560	¼"	SLTST	clayey, tr. glauconite	"	lt.gy-lt.ol. gy	sli. firm	slt-clay	f		mod												
	4571																						
54	4350	½"	SLTST	clayey, tr. glauconite	"	lt.gy	sli. firm	slt-clay	f		mod												
	4361																						
55	3995	1"	CLYST	slty, non-fissile	"	lt.ol. gy-lt. gy	sli. firm	clay-slt	f														
	4005																						
56	3600	3/4"	SLTST	clayey, tr. glauconite	"	"	mod. firm	slt-clay	f		mod												
	3609																						
57	3487	3/4"	SLTST	clayey, tr. glauconite	"	"	sli. firm	slt-clay			mod												
	3496																						
58	3250	1¼"	SLTST	clayey, tr. glauc. rare fgr qtz.	"	"	sli. firm	slt-clay& f.sand	p	sa qtz	mod												
	3258																						
59	3050	1"	SLTST	clayey, tr. glauconite	"	"	mod. firm	slt-clay	f		mod												
	3058																						
60	2850	½"	SLTST	tr.glauc.	"	"	mod. firm	slt	g		minor												
	2857																						

FORM R 257 3/72

PLEASE NOTE : CORRECT DEPTHS UNDERSCORED - CORRECTED FOR SCHLUMBERGER DEPTH ERRORS

APPENDIX 3

Micropalaeontology

Foraminiferal Biostratigraphy and Environmental Analysis of Kingfish #6

by David Taylor

Paleontology Report 1975/2 February 3, 1975.

FORAMINIFERAL BIOSTRATIGRAPHY AND ENVIRONMENTAL ANALYSIS OF KINGFISH #6

By : David Taylor
February 3, 1975.

Forty samples of side wall cores were examined from the Kingfish #6 sequence between 7607' and 2857'*. The "greensand" half of SWC 7607' (this SWC was split as it contained 2 distinct lithologies with "greensand" and calc. shale) was barren of foraminifera, as was the sample at 4571'. The calc. shale at 7607' and the SWC at 7603' contained indeterminate faunas, apparently due to solution, either syngenetic or diagenetic. Two sheets of distribution charts accompany this report; one showing planktonic distribution and biostratigraphy (Sheet 1), whilst the other shows distribution of key bethonic forms and other features which delineate the environmental sequence.

OLIGOCENE to EARLY MIOCENE - 7599' to 6516'

The oldest identifiable fauna was at 7599' containing Globigerina angioporoides which suggests Zone J, but the nondescript associated fauna does not permit further subdivision. The two samples below this, at 7603' and 7607' have poorly preserved planktonic faunas, commented on above. The fauna at 7595' is distinctively Zone J-1, as it includes Globorotaloides testarugosa. The highest J-1 fauna at 7589' is a poor one, while the base of I-1 at 7581' is very clear though more representative of the top of I-1 because of the presence of Globoquadrina dehiscens (S.L.). There may well be a missing time interval between 7589' and 7581'; certainly Zone I-2 is missing as in most deepwater Gippsland sequences. If this break in deposition is real, then it occurred in all the Kingfish sequences I have examined. The sample at 7571' contains an excellent specimen suite of the complex, Globoquadrina dehiscens (S.L.), possibly including G.praedehiscens.

The top of I-1 and the base of H-2 (at 7419'), are distinctive and characteristic but the higher H-2 faunas are typically poor. The appearance of Globigerina connecta, Globorotalia zealandica, G. praescitula, and G. kugléri dramatically mark the base of H-1 with an increase in specific diversity. Zones G and F are present although there may be some abbreviation. It should be noted that Zones G and F are probably or possibly absent in Kingfish #1, #2, and #5, whilst they are present in Kingfish #3, #A-1, #B-1, and in this sequence.

(Note : * All depths used in this report are corrected sidewall core depths).

LATE MIOCENE (= mid Miocene) - 6416' to 2857'

The base of the late Miocene is taken at the base of Zone E with the appearance of Praeorbulina curva. Both samples at 6416' and 6316' contain this species. However, Orbulina suturalis was not recognised in the sequence although it was probably present in the unsampled interval between 6316' and the appearance of O. universa at 6216'. The interval between 6416' and 6316' obviously represents the basal part of Zone E; i.e., E-2. Zone D-2 has a high specific diversity which decreases at the base of D-1 at 5514'. A problem has arisen regarding the definition of the D-1/C boundary which could be placed at 3258' due to the sudden and abundant appearance of Globorotalia conomiozea. If this is the correct position, then it is lower than that picked in any of the other Kingfish sequences. This whole question must be left in abeyance until the thoroughly sampled Flounder #5 sequence has been analysed. For the present the side wall core at 3496' is definitely D-1, whilst the sample at 2857' is definitely C.

ENVIRONMENTAL SEQUENCE

The environmental trend in Kingfish #6 is broadly similar to that in the other Kingfish sequences I have examined. This trend is from the abrupt transition from a "greensand" to a deepwater carbonate sequence, with up-sequence progradation of the continental slope with heavy scouring and slumping during Zone D times, and finally the ultimate establishment of the continental shelf and stable conditions at the top of D-1 and/or C. The other feature which is obvious in all of the Kingfish sequences is that the earliest calcareous faunas (i.e., Zone J) are heavily corroded and most of the specimens may well have been dissolved as the faunas are dominated by arenaceous foraminifera. This dissolution could be due to the fact that deposition took place at or below the C.C.D. (= Calcium Carbonate Dissolution de th). However, what calcareous faunas there are, are usually encrusted and distorted which implies diagenesis and compaction, thus the significance of these deplete faunas is impossible to interpret for it is difficult to distinguish between the syngenetic and diagenetic cause and effect.

../3

However, there are subtle environmental differences between Kingfish #6 and other Kingfish wells. This applies especially to those wells which have a gap in the sequence with Zones G, F, and E missing; such as Kingfish #1, #2, and #5. For example, in Kingfish #5, there is an outstanding discordance between the benthonic faunas of the continental rise and those of the outer shelf or upper slope, without any evidence of the intervening normal slope environment. Also in Kingfish #5, a continental rise environment is apparent up to the base of Zone G, whilst in Kingfish #6 the continental rise deposits are confined to Zones J and I. This may imply that the progradation of the slope was faster in Kingfish #6 than in #5, and that the slope may have developed as a series of protruding fans. Also the biostratigraphic and environmental discordance in Kingfish #5 could have been due to the fact that the slope was too steep and thus unstable to support a benthonic community or retain any planktonic foraminifera which fell onto it. On the other hand, the discordance could have been due to subsequent slumping and/or canyon cutting. If either surmise is correct, then the continental slope in Kingfish #6 was more gentle and stable, for it certainly sustained a diverse benthonic fauna and retained planktonic assemblages.

Benthonoc diversity decreases in Zone D, with size and shape sorting of both planktonic and benthonic specimens. These features are also associated with orange stained, reworked planktonic foraminifera and quartz. The interval between 6216' and 4005' in Kingfish #6 has all the indications of slope instability with slumping of sediment from the shelf edge and strong down slope current action. Whether this interval can be described as "canyon fill" is disputable.

Core-1 at 5657' to 5690' within this interval is to be examined in greater detail from an environmental aspect and will be presented as a separate report. This work will not have any effect on the age dating of the section.

Form R 193 3/71

BASIN GIPPSLAND BY DAVID TAYLOR

WELL NAME KINGFISH #6 DATE Feb. 28, 1975 ELEV. K.B. +30'

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
MIOCENE	A						
	Alternate						
	B						
	Alternate						
	C	2857	1		2857	1	
	Alternate						
	D_1	*3058	2		5514	0	
	Alternate	3609	0				
	D_2	5764	0		6115	0	
	Alternate						
	E	**6215	0		6215	0	
	Alternate						
	F	6316	0		6416	0	
	Alternate						
	G	6516	1		6611	1	
	Alternate						
	H_1	6767	2		7118	0	
	Alternate	6917	1				
	H_2	7218	2		7419	1	
	Alternate						
OLIGOCENE	I_1	7519	0		7571	0	
	Alternate						
	I_2						
	Alternate						
	J_1	7581	1		7603	2	
	Alternate	7589	0		7595	0	
	J_2						
	Alternate						
EOC.	K						
	Alternate						
	Pre K						

*The boundary between zones C & D is in process of revision due to Flounder 5. **Zone E is represented by only one sample and this belongs to E2 the lower subdivision. SWC at 7603' is indeterminant while SWC at 7599' contains only J fauna, but both put in J1 on spore-pollen.

COMMENTS: SWC at 7607' contained two lithologies; a green-sand with NNF and a calcareous shale with indeterminant fauna.

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.

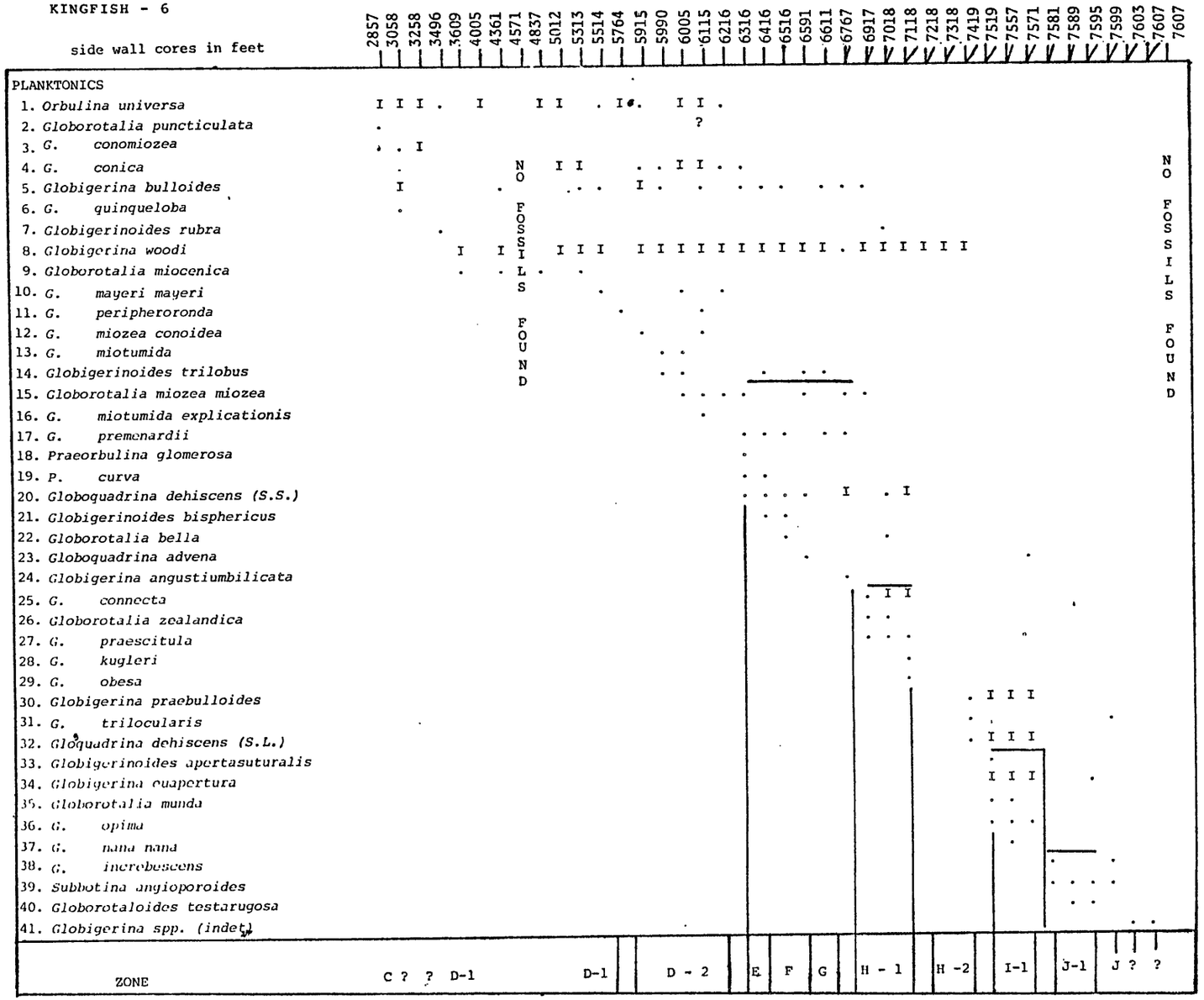
0 SWC or Core - Complete assemblage (very high confidence).
1 SWC or Core - Almost complete assemblage (high confidence).
2 SWC or Core - Close to zonule change but able to interpret (low confidence).
3 Cuttings - Complete assemblage (low confidence).
4 Cuttings - Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

Date Revised _____

By _____

KINGFISH - 6

side wall cores in feet



KINGFISH - 6

side wall cores in feet

BENTHONICS	2857	3058	3258	3496	3609	4005	4361	4571	4837	5012	5313	5514	5764	5915	5990	6005	6115	6216	6316	6416	6516	6591	6611	6767	6917	7018	7118	7218	7318	7419	7519	7557	7571	7581	7589	7595	7599	7603	7607	7607
42. *Euuvigerina miozea*		I	I		I								I	I																										
43. *Cibicides lobatulus*					.							.			I																									
44. *Sphaeroidina bulloides*					.								I	I	.	.	.			.	.	.		.	.	.	.	.	.	.	.	I	.							
45. *Gyroidinoides subzelandica*									.	.																														
46. *"Textularia"*												.																												
47. *Globocassidulina cuneata*															.			.						.	.	.														
48. *Lenticulina spp.*																.			.	.				.	.	.	.	.	.	.	.		.							
49. *Cassidulina laevigata*																	.	.																						
50. *Quinqueloculina spp.*																			.					.	.	.			.		.	.								
51. *Euuvigerina maynei*																			.		.	.		.	.	.	.													
52. *Cibicides pseudoungerianus*																			.	.																				
53. *Anomalinoides procolligera*																					.																			
54. *Pullenia spp.*																						.		.	.					.			.							
55. *Globobulimina sp.*																						.		.	.	.										.				
56. *Gyroidinoides zelandica*																						.		.			.	.	.		.		.	.			.			
57. *Cibicides thiara*																									.	.		.	.	.										
58. *Siphonina australis*																														.		I								
59. *Alabamina sp.*																															.									
60. *Haplophragmoides*																																.						.		
61. *Textularia sp.*																																			.	.				
62. *Alveophragmium sp.*		.																																	.	.				
63. *Martinotiella communis*																																				.				
64. *Ammodiscus (clear)*																																				.	.	.		
65. *Cibicides cf. lobatulus*																																					.	.		
66. *Astrononion*																																					.			
67. *Vulvulina granulosa*																																					.			
68. *Trifarina bradyi*																																					.			
69. *Karreriella bradyi*																																					.	.		
70. *K. sp?*																																					.			
71. *Ammosphaeroidina*																																					.	.		
72. *Discammina sp.*																																.						.		
% PLANKTONIC FORAMINIFERA			90													50			70			80			85		90		60	80				70		90			<10	
SIZE & SHAPE SORTING			X				X	X		X	X	X	X	X	X	X		X	X																					
REWORKED FAUNA and/or QUARTZ										X			X					X																						X
GLAUCONITE																																								X
SOLUTION of $CaCO_3$																																						X	X	X
ENVIRONMENT	SHELF						UNSTABLE SLOPE WITH SLUMPING														BASE of SLOPE															RISE ? ?				

APPENDIX 4

PALYNOLOGY REPORT ON KINGFISH-6, GIPPSLAND BASIN.

by

Alan Partridge

Palaeontology Report 1975/3 March 17, 1975.

SUMMARY

Unfortunately only one sample from the Latrobe Group gave a datable assemblage. This was from SWC-1 at 8312 feet * and it is referrable to the Lower *L. balmei* Spore-Pollen Zone and the *Eisenackia crassitabulata* Dinoflagellate Zone. The next datable sample above this was from above the top of Latrobe unconformity at 7603' and referrable to the *P. tuberculatus* Zone. This leaves an undatable interval of 700 feet.

The 'coal' fraction, which was separated from the clastic fraction by flotation in carbon tetrachloride from cuttings at 7410-20 feet and 8160-80 feet contained only North American type Tertiary spore - pollen and is thus interpreted as exclusively drilling mud contamination. This interpretation probably applies to all the 'coal' identified in the cutting descriptions.

ANALYSES

1. Lower *L. balmei* Zone

SWC-1 at 8312 feet contains the only fossils extracted from the Latrobe Group in this well and these can be referred to the Lower *L. balmei* Zone and given a confidence rating of one. The sample also contained dinoflagellates referrable to the *E. crassitabulata* Dinoflagellate Zone or marine incursion. The assemblage from this sample is listed below:

Spore-Pollen

Australopollis obscurus
Dilwynites australis
Ericipites scabratus
Gleicheniidites circinidites
Ilexpollenites anguloclavidites
Integricorpus antipodus
Lygistepollenites balmei
Lygistepollenites florinii
Nothofagidites brachyspinulosus
Periporopollenites polyoratus
Phyllocladidites mawsonii
Stereisporites antiquisporites
Ttricolpites gillii

Dinoflagellates

Deflandrea dilwynensis
Eisenackia crassitabulata
Epicephalopyxis identata
Spiniferites ramosus

2. Barren Interval

The eleven sidewall cores processed in the interval 7603 to 8312 feet were either barren or contained only black angular pieces of solid organic matter which is known as mineral charcoal. The only exception was SWC 21 at 7607 feet. This SWC at or very close to the actual unconformity contained two lithologies. It was half "greesand" and half calcareous shale and on preparation yeilded fairly large fragments of translucent amophous kerogen but no fossils.

* All depths used in this report are corrected sidewall core depths.

3. *P. tuberculatus* Zone

Three sidewall cores processed from the Lakes Entrace Formation were referrable to this zone. They contained good assemblages including the important indicator species *Cyatheacidites annulatus*. The species identified in these samples are listed below.

Spores & Pollen	SWC 24 7595'	SWC 23 7599'	SWC 22 7603'
Araucariacites australis	x	x	x
Cyatheacidites annulatus	x	x	x
Dilwynites granulatus	x		
Foreotriletes lucunosus			x
Foreotriletes palaequetrus	x		
Haloragacidites harrisii	x	x	x
Herkosporites elliottii			x
Ischyosporites irregularis	x	x	x
Lygistepollenites florinii	x	x	x
Myrtaceidites parvus			x
Nothofagidites brachyspinulosus	x		
Nothofagidites emarcidus	x	x	x
Nothofagidites falcatus			x
'Phyllocladus' palaeogenicus	x		
Phyllocladidites mawsonii	x		x
Stereisporites antiquisporites	x		
Dinoflagellates			
Hystrichokolpoma rigaudae		x	x
Lingulodinium machaerophorum	x	x	
Nematosphaeropsis sp.1	x	x	x
Operculodinium centrocarpum	x	x	x
Operculodinium spp.	x	x	x
Polysphaeridium fibrosum	x		
Spiniferites spp.	x	x	x

LIST OF SAMPLES PROCESSED

Sample	Depth in feet Corrected	(Uncorrected)	Zone
SWC 24	7595	(7576)	*P. tuberculatus* Zone
SWC 23	7599	(7580)	"
SWC 22	7603	(7584)	"
SWC 21	7607	(7588)	Unidentifiable Kerogen
SWC 20	7609	(7590)	Barren
SWC 17	7619	(7600)	Barren
SWC 14	7633	(7614)	Barren
SWC 13	7640	(7621)	Barren
SWC 8	7838	(7818)	Barren
SWC 7	7902	(7882)	Barren
SWC 6	7976	(7956)	Mineral charcoal only
SWC 5	8017	(7997)	Barren
SWC 4	8096	(8076)	Mineral charcoal only
SWC 2	8281	(8260)	Mineral charcoal only
SWC 1	8312	(8292)	Lower *L. balmei* Zone

"Coal" fraction extracted from cuttings

at: 7410-20 feet Mud. Contamination
8160-80 feet " "

BASIN GIPPSLAND DATE

WELL NAME KINGFISH-6 ELEVATION K.B. + 30 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
EOCENE	P. tuberculatus	7595	0				7603	0			
	U. N. asperus										
	M. N. asperus										
	L. N. asperus										
	P. asperopolus										
	U. M. diversus										
	M. M. diversus										
	L. M. diversus										
PALEOCENE	U. L. balmei										
	L. L. balmei	8312	0				8312	0			
	T. longus										
LATE CRETACEOUS	T. lilliei										
	N. senectus										
	C. trip./T.pach.										
	C. distocarin.										
	T. pannosus										
EARLY CRETACEOUS											
PRE-CRETACEOUS											

COMMENTS: Eisenackia crassitabulata Dinoflagellate Zone is present at 8312'; rating (1)

All depths are corrected SWC depths.

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: Alan Partridge DATE 28. Feb. 1975.

DATA REVISED BY: DATE

FORM No R 315 12/72

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

APPENDIX 5

F.I.T. RESULTS

F.I.T. RECORD

WELL: KINGFISH-6

GEOLOGIST: BRUCE McKAY

DATE: 24th January, 1975

F.I.T. No. 1 @ 8130' FEET (IES LOG DEPTH)

MUD DATA:

Rmf 0.46 @ 75 °F, Equiv. Cl^- 7879 ppm (Resistivity)

Cl^- _____ ppm NO_3^- _____ ppm (Titration)

SAMPLE TAKEN AT END OF LAST CIRCULATION.

RECOVERY (MAIN CHAMBER):

_____ cft. GAS

_____ cc OIL

10500 cc WATER

_____ cc MUD

_____ cc SAND

PROPERTIES:

GAS	C_1	C_2	C_3	C_4	C_5	H_2S
	M	M	M			

OIL _____ °API @ _____ °F

Pour Point _____ °F

G.O.R. _____

WATER Rmf 0.26 @ 73 °F, Equiv. Cl^- 13940 ppm (Resistivity)

Cl^- 16500 ppm NO_3^- 44 ppm (Titration)

NaCl equiv. 23000 ppm.

PRESSURES:

	Schlumberger	Amerada	Agnew Amerada	Hewlett Packard *
Sampling (psi)	3500	3502	NOT	3496
Final Shut-in (psi)	3500	3502	RUN	3501
Hydrostatic (psi)	4200	4227		4221

Sampling Time (Min.) 4½

Shut-in Time (Min) 9

FINAL 4213

*Corrected for Atmospheric pressure.

TEMPERATURES: (max. recorded) - °F , - °F

MAX. DEPTH TOOL REACHED: - Ft.

TIME SINCE CIRCULATION: - Hrs.

REMARKS: Surface Pressure 0. Tool open 13½ mins. Hewlett Packard recorder very successful. Recovered water clean but strong sulphurous odour. 1 glass bottle sample retained.

F.I.T. RECORD

WELL: KINGFISH-6

GEOLOGIST: BRUCE McKAY

DATE: January 24-25, 1975

F.I.T. No. 2 @ 7707' FEET (IES LOG DEPTH)

MUD DATA:

Rmf 0.46 @ 75 °F, Equiv. Cl^- 7879 ppm (Resistivity)

Cl^- _____ ppm NO_3^- _____ ppm (Titration)

SAMPLE TAKEN AT END OF LAST CIRCULATION.

RECOVERY (MAIN CHAMBER):

_____ cft. GAS

_____ cc OIL

10500 cc WATER

_____ cc MUD

_____ cc SAND

PROPERTIES:

GAS	C_1	C_2	C_3	C_4	C_5	H_2S
	M	M	M			

OIL _____ °API @ _____ °F

Pour Point _____ °F

G.O.R. _____

WATER Rmf 0.3 @ 79 °F, Equiv. Cl^- 11500 ppm (Resistivity)

Cl^- 12700 ppm NO_3^- 48 ppm (Titration)

NaCl equiv. 19000 ppm

PRESSURES:

	Schlumberger	Amerada	Agnew Amerada	Hewlett Packard *
Sampling (psi)	3350	3309	Not	Not
Final Shut-in (psi)	3350	3314	Run	Working
Hydrostatic (psi)	4000	3998		

Sampling Time (Min.) 6

Shut-in Time (Min) 12

*Corrected for Atmospheric pressure.

TEMPERATURES: (max. recorded) _____ °F , _____ °F

MAX. DEPTH TOOL REACHED: _____ Ft.

TIME SINCE CIRCULATION: _____ Hrs.

REMARKS: Hewlett-Packard did not operate correctly. Successful water test.

1 glass bottle sample. Surface pressure 0. Tool open 18 mins.

F.I.T. RECORD

WELL: KINGFISH-6

GEOLOGIST: BRUCE McKAY

DATE: JANUARY 25, 1975

F.I.T. No. 3 @ 7613 FEET (IES LOG DEPTH)

MUD DATA:

Rmf 0.46 @ 75 °F, Equiv. Cl^- 7750 ppm (Resistivity)

Cl^- _____ ppm NO_3^- _____ ppm (Titration)

SAMPLE TAKEN AT END OF LAST CIRCULATION.

RECOVERY (MAIN CHAMBER):

_____ cft. GAS

_____ cc OIL

10500 cc WATER

_____ cc MUD

_____ cc SAND

PROPERTIES:

GAS	C_1	C_2	C_3	C_4	C_5	H_2S
	M	M	M			

OIL _____ °API @ _____ °F

Pour Point _____ °F

G.O.R. _____

WATER Rmf 0.5 @ 74 °F, Equiv. Cl^- 7150 ppm (Resistivity)

Cl^- 6300 ppm NO_3^- 112 ppm (Titration)

NaCl. 11800 ppm

PRESSURES:

	Schlumberger	Amerada	Agnew Amerada	Hewlett Packard *
Sampling (psi)	3250	3267	NOT	3266
Final Shut-in (psi)	3250	3272	RUN	3272
Hydrostatic (psi)	3950	3945	-	3964

Sampling Time (Min.) 6

Shut-in Time (Min) 2

*Corrected for Atmospheric pressure.

TEMPERATURES: (max. recorded) _____ °F , _____ °F

MAX. DEPTH TOOL REACHED: _____ Ft.

TIME SINCE CIRCULATION: _____ Hrs.

REMARKS: Tool open 8 min. No trace of fluorescence. Lost seal opening segregator, but main chamber full showed buildup on Hewlett-Packard after 5-6 min. and reached SIP-probably not completely stabilized but within .5 psi. 1 glass bottle sample

AGNEW-GO-WESTERN PTY. LTD.
P.O. Box 380
Sale, Victoria, 3850

ESSO AUSTRALIA LIMITED | KINGFISH | KINGFISH NO. 6
January 24, 1975

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

Tools used: Amerada 0-10,500 psi Element Serial No. 9403 12 hour clock Run in conjunction with Quartz Pressure Gauge.

F. I. T. No. 1 @ 8,130'

HOURS	PSIG	REMARKS
1821		Run in hole
--	4227.3	Initial hydrostatic
1957	--	Set Packer
1958	--	Open Tool
1959	3501.7	
2000	3501.7	
2001	3501.7	
2002	3501.7	
2003	3501.7	
2004	3501.7	
2005	3501.7	
2006	3501.7	
2007	3501.7	
2008	3501.7	
2009	3501.7	
2010	3501.7	
2011	3501.7	
2012	3501.7	Seal tool
2013	3501.7	
2014	3501.7	
2015	3501.7	
2016	3501.7	Unseat packer
--	4227.3	Final hydrostatic

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

APPENDIX 6

WELL LOG ANALYSIS REPORT

AGNEW-GO-WESTERN PTY. LTD.
P.O. Box 380
Sale, Victoria 3850

ESSO AUSTRALIA LIMITED | KINGFISH | KINGFISH NO. 6
January 24-25, 1975

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

Tools used: Amerada 0-10,500 psi Element Serial No. 9403 12 hour clock
Run in conjunction with Quartz Pressure Gauge.

F. I. T. No. 2 @ 7,707'

HOURS	PSIG	REMARKS
2255		Run in hole
--	4008.0	Initial hydrostatic
0001	--	Set packer
0002	3308.7	Open tool
0004	3308.7	
0006	3308.7	
0008	3308.7	
0010	3313.9	
0012	3313.9	
0014	3313.9	
0016	3313.9	
0018	3313.9	
0020	3313.9	Seal tool
0021	3313.9	
0022	--	Unseat packer
0023	--	
--	3997.5	Final hydrostatic

F. I. T. No. 3 @ 7,613'

HOURS	PSIG	REMARKS
0200		Run in hole
--	3934.9	Initial hydrostatic
0249	--	Set packer
0251	--	Open tool
0252	3267.0	
0253	3267.0	
0254	3267.0	
0255	3267.0	
0256	3272.2	
0257	3272.2	
0258	3272.2	
0259	3272.2	Seal tool - lost seal
--	3945.3	Final hydrostatic

WELL LOG ANALYSIS REPORT

OPERATOR ESSO AUSTRALIA LTD. WELL KINGFISH-6 DATE March 27, 1975

STATE VICTORIA ELEV. KB +28'

DEPTH INTERVAL	POROSITY ESTIMATE	WATER SAT. ESTIMATE	REMARKS
7611-12 (1')	16.3	100%	
7612-16 (4')	19.1 - 19.9		
7616-18 (2')	20.2 - 21.1		
7618-21 (3')	16.5 - 18.5		
7621-24 (3')	19.1 - 21.6		
7624-26 (2')	23.1 - 23.5		
7626-37 (11')	17.5 - 19.9		
7637-41 (4')	16.1 - 17.1		
7641-43 (2')	13.5 - 14.3		
7644-45 (1')	15.1		
7546-54 (8')	19.0 - 22.8		
7655-57 (2')	18.1 - 18.3		
7657-59 (2')	16.5 - 17.4		
7659-66 (7')	18.0 - 19.7		
7666-74 (8')	21.0 - 23.2		
7674-78 (4')	24.2 - 26.8		
7679-88 (9')	19.9 - 24.1		
7689-92 (3')	23.3 - 23.9		
7692-96 (4')	24.6 - 27.0		
7696-7700 (4')	20.7 - 22.7		
7700-02 (2')	23.8 - 24.0		
7703-06 (3')	20.7 - 22.9		
7706-15 (9')	23.0 - 24.6		
7715-17 (2')	21.7 - 22.2		
7717-24 (7')	23.3 - 26.6		
7724-27 (3')	21.5 - 22.5		
7727-29 (2')	23.5 - 23.6		
7729-38 (9')	19.6 - 21.7		
7738-69 (31')	20.1 - 24.6		
7769-78 (9')	23.8 - 26.9		

TESTS:

FIT #1 8130)
FIT #2 7707) Recovered water
FIT #3 7613)

FORMATION:

LATROBE GROUP

LOGS:

ISF-SLK
GR-FDC-CNL
HDT
CST
FIT

COMMENTS:

Porosities in this analysis are computer derived from the FDC log. Water saturations are taken at 100%: the actual computer derived values on a foot-by-foot basis range from 79-138%.

NB. Corrected Depths used.

Bruce McKay

BY BRUCE McKAY

WELL KINGFISH-6

DEPTH INTERVAL	POROSITY ESTIMATE	WATER SAT. ESTIMATE	REMARKS
7778-81 (3')	19.9 - 21.6	100%	
7781-90 (9')	22.0 - 27.4		
7790-93 (3')	20.7 - 21.7		
7793-98 (5')	17.2 - 19.4		
7798-7802' (4')	21.0 - 25.3		
7802-19 (17')	16.2 - 18.9		
7819-25 (6')	18.9 - 19.8		
7825-28 (3')	20.9 - 22.4		
7828-31 (3')	18.4 - 18.8		
7831-34 (3')	20.8 - 24.2		
7837-38 (1')	13.8		
7840-44 (4')	14.5 - 16.5		
7848-57 (9')	16.9 - 19.9		
7857-58 (1')	12.7		
7859-60 (1')	14.2		
7860-72 (12')	16.9 - 20.1		
7872-76 (4')	16.0 - 16.9		
7876-79 (3')	17.8 - 18.8		
7879-84 (5')	20.3 - 21.9		
7884-87 (3')	16.9 - 19.3		
7887-96 (9')	21.5 - 24.4		
7896-7900 (4')	15.0 - 18.1		
7905-06 (1')	16.5		
7906-08 (2')	21.1 - 21.3		
7908-11 (3')	17.4 - 18.4		
7911-15 (4')	20.4 - 22.2		
7915-22 (7')	17.3 - 19.6		
7922-25 (3')	20.5 - 21.4		
7925-29 (4')	17.0 - 19.4		
7929-32 (3')	22.5 - 23.1		
7932-41 (9')	17.5 - 19.8		
7941-45 (4')	20.3 - 20.9		
7945-48 (3')	17.1 - 18.8		
7948-52 (4')	15.2 - 16.5		
7952-56 (4')	16.8 - 17.4		
7956-63 (7')	13.6 - 15.9		
7963-66 (3')	16.2 - 18.5		
7966-69 (3')	20.5 - 20.9		
7969-72 (3')	23.2 - 26.0		
7972-73 (1')	20.7		

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

APPENDIX 7

CORE DESCRIPTION, PETROGRAPHY AND BULK DENSITY

ESSO STANDARD OIL (AUSTRALIA) LTD.

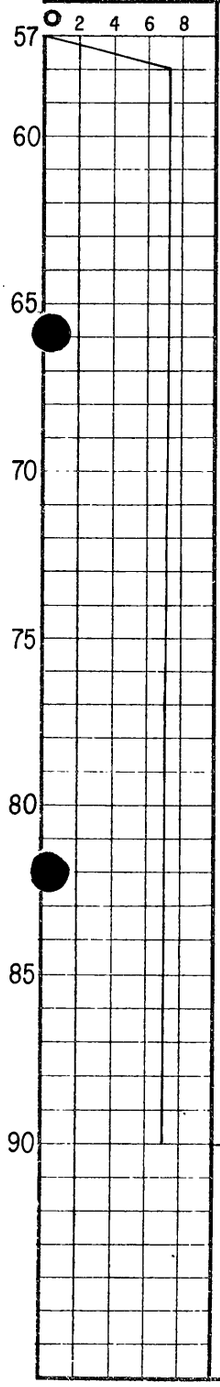
CORE DESCRIPTION

Core No. 1

WELL: KINGFISH-6

Interval Cored 5657'-5690' **ft., Cut** 33 **ft., Recovered** 33 **ft., (** 100 **%) Fm.** Lakes Entrance

Bit Type C 20 **, Bit Size** 8-15/32 **in., Desc. by** DGB/LGE **Date** 18/1/75



Shows	Interval (ft.)	Descriptive Lithology
NIL	5657-5690'	SILTY MICRITIC LIMESTONE

Light grey-medium grey, hard to very hard, uniform lithology with numerous irregular carbonate cemented zones. These zones are the more bioturbated zones, fossiliferous (forams & bivalves) glauconitic, slightly micaceous.

BEDDING - horizontal - wavy parallel, some contorted.

STRUCTURES - light grey areas tend to be highly bioturbated, darker areas are less so, load casts, flame structures with some cut and fill are present at the boundaries of the horizontal - wavy parallel bedding and the highly bioturbated areas.

SYMBOLS

⩙	SILTSTONE
⊥	CALCAREOUS
∫	GLAUCONITE
⍓	PELECYPODS
⍟	FORAMS

REMARKS: Samples taken for palaeontological examination:at 5657', 5660', 5663', 5666', 5669', 5672', 5675',5678' 5681', 5684', 5687', 5690' (Total 12)

PETROGRAPHY AND BULK DENSITIES OF TWELVE CORE SAMPLES

1. SUMMARY

(a) The rocks are partially recrystallized, fine-grained foraminiferal mudstones, grainstones and packstones containing minor amounts of phyllosilicates, detrital quartz and feldspar, accessory amounts of zeolite, pyrite and carbonaceous material, and trace amounts of detrital heavy mineral grains.

(b) The general appearance of the rocks suggests that they probably formed in an "open shelf" type marine environment which was presumably reducing as the rocks also contain accessory amounts of framboidal pyrite and carbonaceous matter.

(c) The presence of "illitic-micaceous" phyllosilicates, possible glauconite and zeolite in the rocks indicates that they have suffered diagenesis.

Within the suite studied, the degree of dolomitization appears to increase gradually with depth.

Although matrix carbonate is somewhat recrystallized in most sections, it is generally possible to work out whether the rocks were mudstones, packstones or grainstones. Salient features are precied below.

Thin Section	Rock Type	Comments
13879-80	mudstone	matrix is somewhat recrystallized
13881-82	grainstone	crystal regrowths obscure fossil fragments
13883-84	grainstone	minor matrix recrystallization
13885-86	packstone	minor matrix recrystallization
13887-88	packstone or grainstone	packstone suggested by minor patches of un-recrystallized micrite
13889-90	grainstone	extensively recrystallized
13891-92	packstone	much evidence of grain to grain pressure solution; contains (?) "horse-tail" stylolites

Thin Section	Rock Type	Comments
13893-94	packstone	evidence of grain to grain pressure dissolution; broken and skeletal grains present
13895-96	grainstone	much evidence of pressure solution
13897-98	packstone	much evidence of pressure solution
13899-900	packstone	partially recrystallized
13901-02	packstone	partially recrystallized

Note: Sections 13895-13902 are moderately dolomitized whereas the other sections are only weakly dolomitized.

The measured bulk densities of the rocks are compatible with their mineralogical compositions if they have porosities of 10-20%. Such porosities are to be expected (see references listed below).

References

Murray, R.C. (1960). Origin of porosity in carbonate rocks. Jour. Sed. Pet., vol. 30, pp 59-84.

Weyl, P.K. (1960). Porosity through dolomitization - conservation-of-mass requirements. Jour. Sed. Pet., vol. 30, pp 85-90.

2. PROCEDURES AND ABBREVIATIONS

(a) Thin sections are labelled "A" and "B". Sections "A" were cut parallel to the bedding and sections "B" were cut perpendicular to it.

(b) The predominance of calcium carbonate in the samples was confirmed by staining the sections with alizarin red-S solution.

(c) X.R.D. data indicate that both calcite and dolomite are present in the rocks. The calcite appears to be pure (i.e. it does not contain dolomite in solid solution).

(d) The following X.R.D. analysis symbols are applied:-

D	-	dominant
SD	-	sub-dominant
A	-	accessory
Tr	-	trace

3. PETROGRAPHIC AND X.R.D. DATA

Hand Specimens:

In hand specimen all samples are light grey, fine-grained, weakly laminated limestones.

Rock Names:

All rocks are foraminiferal limestones which have undergone diagenesis.

Sample: S155; TSC13879-80

Thin Section:

An optical estimate of the constituents gives the following:-

	%
Calcite	75-80
Dolomite	5-10
Phyllosilicates	5-10
Quartz	3-5
Feldspar	2-3
Zeolite	∿ 1
Opaques	∿ 1

This is a partially recrystallized foraminiferal calcareous mudstone composed largely of calcite and dolomite associated with minor amounts of phyllosilicates, quartz and feldspar, plus traces of zeolite and opaques. Calcareous foraminiferal microfossils make up much of the section.

Calcite and lesser dolomite occur largely as anhedral 0.01-0.05 mm sized grains which make up the bodies of the 0.1-0.4 mm sized microfossils and constitute most of the matrix material between them.

Phyllosilicates, largely forming 0.1-0.3 mm sized anhedral patches and flakes, make up a small proportion of the section. Some of the patches are green to brown in colour and may possibly be glauconitic in nature. Independent X.R.D. analysis indicated the presence of minor amounts of "micaceous and/or illitic" phyllosilicates.

Quartz and lesser feldspar (mainly sodic plagioclase) are present as highly angular, evenly dispersed detrital grains which range in size from 0.01-0.1 mm.

Zeolite (identified by X.R.D. analysis as clinoptilolite) is present in accessory to trace amounts, largely forming microcrystalline 0.01-0.05 mm sized interstitial patches.

Opaques constitute about 1% of the section and occur both as minute (≤0.002 mm sized) evenly disseminated sphereules and as dusty 0.02-0.2 mm sized patches. In detail the dusty patches represent areas which are heavily seived with extremely fine-grained pyrite and (?) carbonaceous material, whereas the sphereules consist of (?) framboidal pyrite (the presence of pyrite was detected in one X.R.D. trace).

Although bedding is quite evident in hand specimen, in the sections it is rather indistinct and mainly recorded by the sub-parallel alignment of elongated microfossil fragments.

Much of the calcareous matrix "mud" has been recrystallized and although the voids in some foram casts are still open, most have been filled with calcite.

X.R.D. analysis of the rock indicated the following:-

Mineral	Proportion
Calcite	D
Dolomite	A
Mica and/or illite	A
Quartz	Tr
Feldspar	Tr
Clinoptilolite	Tr

No attempt was made to identify the genera (or species) of forams present; however, if they are benthonic forms an experienced micropalaeontologist may be able to estimate the conditions of deposition.

Sample: S156; TSC13881-82

Thin Section:

An optical estimate of the constituents gives the following:-

	%
Calcite plus lesser dolomite	80-85
Phyllosilicates	5-8
Quartz, lesser feldspar	5-8
Zeolite	∿ 1
Opaques	∿ 1

Both texturally and mineralogically the sections of this sample very closely resemble those of the above described sample; however, they contain several 0.1-0.3 mm sized snail-like (?) foram shells and a few broken (?) foram shells and a few broken (?) echinoderm spines which range up to 0.5 mm in length. Core zones of the latter have been filled with calcite, whereas the solid parts appear to have been replaced by zeolite.

Sample: S157; TSC13883-84

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

	%
Calcite plus lesser dolomite	∿ 80
Quartz, lesser feldspar	∿ 10
Phyllosilicates	5-8
Zeolite	∿ 1
Opaques	∿ 1

Both texturally and mineralogically the sections very closely resemble those of the first described sample; however,

(a) gently curved, elongate foraminiferal microfossils predominate;

(b) quartz is more abundant.

Sample: S158; TSC13885-86

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

	%
Calcite plus minor dolomite	75-80
Quartz	3-5
Phyllosilicates	5-10
Zeolite	2-3
Opaques	1-2

Both texturally and mineralogically these sections very closely resemble those of the first sample, although foraminiferal microfossils are less abundant.

Sample: S159; TSC13887-88

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

	%
Calcite plus minor dolomite	∿ 85
Phyllosilicates	3-5
Quartz	3-5
Opaques	1-2
Zeolite	1-2

Both texturally and mineralogically these sections very closely resemble those of the first described sample.

Sample: S160; TSC13889-90

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

	%
Calcite plus minor dolomite	∿ 85
Quartz	3-5
Phyllosilicates	3-5
Zeolite	1-2
Opaques	1-2

Both texturally and mineralogically these sections very closely resemble those of the first described sample.

Sample: S161; TSC13891-92

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

	%
Calcite plus minor dolomite	∿ 75
Quartz	∿ 10
Phyllosilicates	5-10
Zeolite	2-3
Opaques	1-2

Both texturally and mineralogically the sections resemble those of the first described sample.

Fine bedding is clearly evident in one thin section and this is caused by subtle fluctuations in the proportions of phyllosilicates and (?) carbonaceous opaques.

Sample: S162; TSC13893-94

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

	%
Calcite plus minor dolomite	∿ 80
Quartz	5–10
Phyllosilicates	3–5
Zeolite	1–2
Opaques	2–3

Both texturally and mineralogically the sections resemble those of the first described sample, although fine bedding, similar to that seen in one section of Sample S162, is clearly evident.

Sample: S163; TSC13895-96

Thin Section:

An optical estimate of the constituents gives the following:-

	%
Calcite plus minor dolomite	∿ 85
Quartz	5–10
Phyllosilicates	3–5
Zeolite	1–2
Opaques	2–3

Both texturally and mineralogically these sections resemble those of the first described sample; however, opaques are more abundant.

Independent X.R.D. analysis of the sample indicated the following:-

Mineral	Proportion
Calcite	D
Quartz	A
Mica-illite	A
Dolomite	A
Clinoptilolite	A–Tr
Pyrite	Tr

Sample: S164; TSC13897-98

Thin Section:

An optical estimate of the constituents gives the following:-

	%
Calcite plus minor dolomite	∿ 85
Phyllosilicates	3–5
Quartz	3–5
Zeolite	1–2
Opaques	1–2

Both texturally and mineralogically these sections closely resemble those of the first described sample; however, they are slightly coarser-grained and contain a type of 0.2–0.3 mm sized radial, segmented (?) foram which is not seen in the other sections.

Sample: S165; TSC13899-900

Thin Section:

An optical estimate of the constituents gives the following:–

	%
Calcite plus minor dolomite	∿ 80
Phyllosilicates	5–10
Quartz plus minor feldspar	5–8
Zeolite	1–2
Opaques	1–2

Both texturally and mineralogically these sections closely resemble those of the first described sample, although the proportion of opaques and phyllosilicates is greater.

X.R.D. analysis indicated the following:–

Mineral	Proportion
Calcite	D
Dolomite	A–SD
Mica-illite	A
Quartz	A
Feldspar	Tr(?)
Clinoptilolite	Tr

Sample: S166; TSC13901-02

Thin Section:

An optical estimate of the constituents gives the following:-

	%
Calcite plus minor dolomite	∿ 85
Quartz plus minor feldspar	3-5
Phyllosilicates	5-10
Zeolite	1-2
Opaques	2-3

Texturally and mineralogically these sections closely resemble the previous two sections.

Footnote:

All sections contain traces of detrital epidote, rutile, sphene, tourmaline and monazite.

4. BULK DENSITY DATA

Sample No.	Density (gm/cm^3)
S155	2.44 ±0.01
S156	2.51 "
S157	2.32 "
S158	2.29 "
S159	2.49 "
S160	2.42 "
S161	2.05 "
S162	2.23 "
S163	2.24 "
S164	2.11 "
S165	2.12 "
S166	2.48 "

Mean bulk density of the suite = 2.31

5. DISCUSSION ON BULK DENSITY DATA

In the case of a non-porous rock of mean composition:-

Mineral	%	S.G. (assumed)
Calcite	68	2.7
Dolomite	10	2.8
Phyllosilicates	8	2.8
Quartz	8	2.7
Feldspar	3	2.6
Zeolite	2	2.2
Pyrite	1	4.9

The calculated bulk density is about 2.7 gm/cm^3.

The mean porosity of the suite can be roughly estimated by applying the simple formula:-

$$\text{Porosity } (\%) = \frac{100\ (D_1 - D_2)}{D_1 - D_p}$$

D_1 = density of solid parts of rock

D_2 = bulk density of rock

D_p = density of pores

In this case,

$$\text{Porosity } (\%) = \frac{100\ (2.7 - 2.3)}{2.7 - D_p}$$

if the pores are devoid of liquid, $D_p = 0$ and porosity = 15%; however, if the pores are half filled with water, $D_p = 0.5$ and porosity = 18.2%. Such values for porosity in carbonate rocks are not unusual, but actual porosity values could be determined at Amdel if required.

ESSO AUSTRALIA LIMITED

WELL COMPLETION REPORT

KINGFISH-6

APPENDIX 8

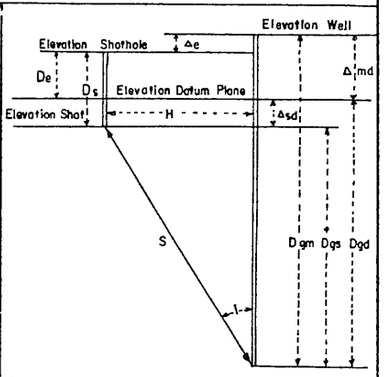
VELOCITY SURVEY REPORT

Shothole information:- Elevation, Distance & Direction from Well

Company: ESSO EXPLORATION AUSTRALIA INC.
Well: KINGFISH-6
Elevation (Derrick Floor): 28'
Total Depth: 8386' KB

LOCATION
Coordinates: 38° 35' 40.545'S, 148° 13' 59.733'E DATUM : M.S.L.
Section, Township, Range / County / Area or Field: Gippsland Basin, Victoria

Record Number	Shothole Number	Time of Shot	Dgm	Ds	tus	tr	T Reading	T Polarity	T Grade	Dgs	H	TAN i	Cos i	Tgs	Δsd	Δsd/V	Tgd	Tgd Average	Dgd	ΔDgd	ΔTgd	Vi Interval Velocity	Va Average Velocity
20		1850	2508	33	.007	.027	.324	D	G	2447	133	.0010	.9998	.324	33	.007		.331	2480				7492
21		1852				.027	.324	D	G	Offset not significant										361	.035	10,314	
18		1840	2869	33	.007	.027	.358	D	G					.359				.366	2841				7762
19		1842				.027	.359	D	F											624	.058	10,759	
1		1425	3493	33	.007	.026	.416	D	G					.417				.424	3465				8172
2		1428				.025	.417	D	G											2001	.158	12,665	
3		1455	5504	33	.007	.026	.574	D	G					.575				.582	5476				9409
4		1457				.028	.575	D	G											497	.041	12,122	
16		1818	6001	33	.007	.028	.616	D	P					.616				.623	5973				9587
17		1820				.027	.615	D	G											600	.060	10,000	
15		1800	6601	33	.007	.028	.676	D	G					.676				.683	6573				9624
14		1755	7128	33	.007	.026	.730	D	G					.730				.737	7100	527	.054	9759	9634
12		1730	7607	33	.007	.030	.779	D	F					.779				.786	7579	479	.049	9776	9642
13		1735				.029	.781	D	G														
5		1518				.026	.779	D	G											37	.006	6167	
6		1520				.027	.779	D	G														
10		1725	7644	33	.007	.030	.785	D	G					.785				.792	7616				9616
11		1727				.029	.785	D	G											353	.028	12607	
9		1650	7997	33	.007	.027	.813	D	G					.813				.820	7969				9718
7		1555	8271	33	.007	.027	.836	D	G					.836				.843	8243	274	.023	11,931	9778
8		1558				.026	.835	D	G														



Dgm = Geophone depth measured from well elevation
Dgs = " " " " shot "
Dgd = " " " " datum "
Ds = Depth of shot
De = Shothole elevation to datum plane
H = Horizontal distance from well to shotpoint
S = Straight line travel path from shot to well geophone
tus = Uphole time at shotpoint
T = Observed time from shotpoint to well geophone.
tr = " " to reference geophone.
Δe = Difference in elevation between well & shotpoint.
Δsd = " " " " shot & datum plane
Δsd = Ds - De
Dgs = Dgm - Ds ± Δe ; tan i = $\frac{H}{Dgs}$
Tgs = cos i T = Vert. travel time from shot elev to geophone
Tgd = Tgs ± $\frac{\Delta sd}{V}$ = " " " " datum plane " "
Dgd = Dgm - Δmd
Vi = Interval velocity = $\frac{\Delta Dgd}{\Delta Tgd}$
Va = Average = $\frac{D\,gd}{T\,gd}$

Surveyed by: Velocity Data
Date: 23.1.75
Weathering Data :

Casing Record
2785 KB

DWG. 1107/OP/3

VELOCITY SURVEY REPORT

WELL: Kingfish-6
BASIN: Gippsland

INTRODUCTION

Esso Personnel:	J.F. Davis, G.J. Blackburn
Contractor:	Velocity Data Pty. Ltd.,
Seismic Observer:	J. Larsen
Marine Shooter:	M. Reveleigh
Assembled at:	Sale, Victoria on 22/1/75
Boarded Rig:	"Regional Endeavour" on 22/1/75
Date of Survey:	23/1/75
Casing Depth:	2785' KB
T.D. When Shot:	8386' KB FTD: 8386' KB
Water Depth:	258' KB

SURVEY PROCEDURE

Weather: Sea: Large westerly chop, no swell.
Rig movement slight
Rig noise slight

Hydrophones: Number: 2
Depth below sea-level: 1) 24 ft. 2) 30 ft.
Position: 1) 5' above gun spark, 2) in the moonpool.

Seismic source: Gas Gun: Gas pressures 2:1 ratio
Oxygen 90 psi, Propane 45 psi

Shots: Number of levels shot: 11
Number of shots: 21
Number of pops per level: 2, 4

Time: Time of first shot: 1425 hours
Time of last shot: 1852 hours
Rig time: 4 hours 57 minutes.

RESULTS

Quality of Records: 18 good
2 fair
1 poor

Comparison of Interval Times with Sonic Log: /Δ/average 10.5 microsec/foot
/Δ/maximum 81.1 microsec/foot
/Δ/average 2.7 microsec/ft. (neglecting max.value)
Refer to attached table for further details.

COMMENTS

In spite of the relatively rough sea conditions, no significant noise occurred on the records, so that seismic events could be determined to an accuracy approaching 1 millisecond. By neglecting the small section between 7560' and 7597' KB the overall average for the sonic-velocity error is 2.7 microsec/foot so that the resulting information is considered reliable. The following delays occurred during the survey:

1. snapped screws on the cable gear shaft drive - delay 20 mins.
2. gas gun misfire due to short-circuiting of the ignition line.
   time 1605 delay 25 mins
   time 1705 delay 20 mins

As the gas gun was lifted from the water on both occasions slight variations in the observed time from the shot point to reference geophone were recorded but this is unimportant due to the insignificance of the offset.

SPECIAL NOTE

In logging this well Schlumberger used a cable with incorrectly spaced depth markers. This error was not discovered until after the completion of Kingfish-6 and Flounder-5. The depths given in this report are corrected for this error by the factor of +2.5ft/1000ft. from KB (corrected depths greater than original depths).

VELOCITY SURVEY ERROR CHECK

KINGFISH-6

SHOT DEPTH (Ft.subsea) Corrected	Av.Vertical Travel Time (check shots)	Ti Check Shots (sec.)	Ti Sonic Log (sec.)	Difference (Millisecs.)	Depth Interval (ft.)	Error (Microsec.) per ft.
2480	.331	.035	.034	+ 1 ms	361	+2.8
2841	.366					
2841	.366	.058	.058	0	624	0
3465	.424					
3465	.424	.158	.157	+-1 ms	2011	+ 0.5
5476	.582					
5476	.582	.041	.037	+ 4 ms	497	+ 8.0
5973	.623					
5973	.623	.060	.060	0	600	0
6573	.683					
6573	.683	.054	.054	0	527	0
7100	.737					
7100	.737	.049	.046	+ 3 ms	479	+ 6.3
7579	.786					
7579	.786	.006	.003	+ 3 ms	37	+ 81.1
7616	.792					
7616	.792	.028	.029	- 1 ms	353	- 2.8
7969	.820					
7969	.820	.023	.022	+ 1 ms	274	+ 3.7
8243	.843					

PE902294

This is an enclosure indicator page.
The enclosure PE902294 is enclosed within the container PE902291 at this location in this document.

The enclosure PE902294 has the following characteristics:

ITEM_BARCODE	= PE902294
CONTAINER_BARCODE	= PE902291
NAME	= East Kingfish Field Extension Geological Cross Section A-A'
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= map
DESCRIPTION	= East Kingfish Field Extension Geological Cross Section A-A'
REMARKS	=
DATE_CREATED	= 01/02/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902295

This is an enclosure indicator page.
The enclosure PE902295 is enclosed within the container PE902291 at this location in this document.

The enclosure PE902295 has the following characteristics:

ITEM_BARCODE	= PE902295
CONTAINER_BARCODE	= PE902291
NAME	= Structure Map Top of Latrobe M-1 Reservoir
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= map
DESCRIPTION	= Structure Map Top of Latrobe M-1 Reservoir
REMARKS	=
DATE_CREATED	= 01/02/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE903320

This is an enclosure indicator page.
The enclosure PE903320 is enclosed within the container PE902291 at this location in this document.

The enclosure PE903320 has the following characteristics:

ITEM_BARCODE	= PE903320
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Time depth curve
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= VELOCITY
DESCRIPTION	= Kingfish 6 time depth curve
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish 6
CONTRACTOR	= Velocity Data Pty Ltd
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE902296

This is an enclosure indicator page.
The enclosure PE902296 is enclosed within the container PE902291 at this location in this document.

The enclosure PE902296 has the following characteristics:

ITEM_BARCODE	= PE902296
CONTAINER_BARCODE	= PE902291
NAME	= Well Velocity Record
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= graph
DESCRIPTION	= Well Velocity Record
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601430

This is an enclosure indicator page.
The enclosure PE601430 is enclosed within the container PE902291 at this location in this document.

The enclosure PE601430 has the following characteristics:

ITEM_BARCODE	= PE601430
CONTAINER_BARCODE	= PE902291
NAME	= Well Completion Log
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= well log
DESCRIPTION	= Well Completion Log
REMARKS	=
DATE_CREATED	= 29/01/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601962

This is an enclosure indicator page.
The enclosure PE601962 is enclosed within the container PE903317 at this location in this document.

The enclosure PE601962 has the following characteristics:

ITEM_BARCODE	= PE601962
CONTAINER_BARCODE	= PE903317
NAME	= Kingfish 6 bariod ppm log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Kingfish 6 bariod ppm log
REMARKS	=
DATE_CREATED	= 22/01/75
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish 6
CONTRACTOR	= Bariod Well Logging Services
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE603506

This is an enclosure indicator page.
The enclosure PE603506 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603506 has the following characteristics:

ITEM_BARCODE	= PE603506
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 2 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603507

This is an enclosure indicator page.
The enclosure PE603507 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603507 has the following characteristics:

ITEM_BARCODE	= PE603507
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 3 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603508

This is an enclosure indicator page.
The enclosure PE603508 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603508 has the following characteristics:

ITEM_BARCODE	= PE603508
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 4 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603509

This is an enclosure indicator page.
The enclosure PE603509 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603509 has the following characteristics:

ITEM_BARCODE	= PE603509
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 5 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603510

This is an enclosure indicator page.
The enclosure PE603510 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603510 has the following characteristics:

ITEM_BARCODE	= PE603510
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 6 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603511

This is an enclosure indicator page.
The enclosure PE603511 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603511 has the following characteristics:

ITEM_BARCODE	= PE603511
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 7 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603512

This is an enclosure indicator page.
The enclosure PE603512 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603512 has the following characteristics:

ITEM_BARCODE	= PE603512
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 8 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603513

This is an enclosure indicator page.
The enclosure PE603513 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603513 has the following characteristics:

ITEM_BARCODE	= PE603513
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 9 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603514

This is an enclosure indicator page.
The enclosure PE603514 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603514 has the following characteristics:

ITEM_BARCODE	= PE603514
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 10 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603515

This is an enclosure indicator page.
The enclosure PE603515 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603515 has the following characteristics:

ITEM_BARCODE	= PE603515
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 11 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603516

This is an enclosure indicator page.
The enclosure PE603516 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603516 has the following characteristics:

ITEM_BARCODE	= PE603516
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 12 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603517

This is an enclosure indicator page.
The enclosure PE603517 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603517 has the following characteristics:

ITEM_BARCODE	= PE603517
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 13 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603518

This is an enclosure indicator page.
The enclosure PE603518 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603518 has the following characteristics:

ITEM_BARCODE	= PE603518
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 14 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603519

This is an enclosure indicator page.
The enclosure PE603519 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603519 has the following characteristics:

ITEM_BARCODE	= PE603519
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 15 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603520

This is an enclosure indicator page.
The enclosure PE603520 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603520 has the following characteristics:

ITEM_BARCODE	= PE603520
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 16 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603521

This is an enclosure indicator page.
The enclosure PE603521 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603521 has the following characteristics:

ITEM_BARCODE	= PE603521
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 17 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603522

This is an enclosure indicator page.
The enclosure PE603522 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603522 has the following characteristics:

ITEM_BARCODE	= PE603522
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 18 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603523

This is an enclosure indicator page.
The enclosure PE603523 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603523 has the following characteristics:

ITEM_BARCODE	= PE603523
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 19 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603524

This is an enclosure indicator page.
The enclosure PE603524 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603524 has the following characteristics:

ITEM_BARCODE	= PE603524
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 20 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603525

This is an enclosure indicator page.
The enclosure PE603525 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603525 has the following characteristics:

ITEM_BARCODE	= PE603525
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 21 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603526

This is an enclosure indicator page.
The enclosure PE603526 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603526 has the following characteristics:

ITEM_BARCODE	= PE603526
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 22 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603527

This is an enclosure indicator page.
The enclosure PE603527 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603527 has the following characteristics:

ITEM_BARCODE	= PE603527
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 23 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603528

This is an enclosure indicator page.
The enclosure PE603528 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603528 has the following characteristics:

ITEM_BARCODE	= PE603528
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 24 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603529

This is an enclosure indicator page.
The enclosure PE603529 is enclosed within the container PE902291 at this location in this document.

The enclosure PE603529 has the following characteristics:

ITEM_BARCODE	= PE603529
CONTAINER_BARCODE	= PE902291
NAME	= Kingfish 6 Mud Log
BASIN	= GIPPSLAND
ON_OFF	= OFFSHORE
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= LOG
DESCRIPTION	= Mud Log for Kingfish-6 25 of 25
REMARKS	=
DATE_CREATED	= 31/07/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= KINGFISH-6
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE902292

This is an enclosure indicator page.
The enclosure PE902292 is enclosed within the container PE902291 at this location in this document.

The enclosure PE902292 has the following characteristics:

ITEM_BARCODE	= PE902292
CONTAINER_BARCODE	= PE902291
NAME	= Formation Tester
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= tester
DESCRIPTION	= Formation Tester
REMARKS	=
DATE_CREATED	= 26/01/1975
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902293

This is an enclosure indicator page.
The enclosure PE902293 is enclosed within the container PE902291 at this location in this document.

The enclosure PE902293 has the following characteristics:

ITEM_BARCODE	= PE902293
CONTAINER_BARCODE	= PE902291
NAME	= Formation Interval Test
BASIN	=
PERMIT	= Vic/L7
TYPE	= WELL
SUBTYPE	= tester
DESCRIPTION	= Formation Interval Test
REMARKS	=
DATE_CREATED	= 24+25/1/75
DATE_RECEIVED	=
W_NO	= W683
WELL_NAME	= Kingfish-6
CONTRACTOR	= Agnew Go Western
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)