WELL COMPLETION REPORT

KINGFISH - 5

ESSO AUSTRALIA LTD.

June, 1974

WELL COMPLETION REPORT

KINGFISH-5

C.H. FORD,
JULY, 1974.

WELL COMPLETION REPORT

KINGFISH-5

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COMPLETION REPORT

I WELL DATA RECORD

Date JUNE 17, 1974.

LOCATION

WELL NAME	STATE	PERMIT or LICENCE	GEOLOGICAL BASIN	FIELD
KINGFISH-5	VIC. OFFSHORE	VIC L/7	GIPPSLAND	KINGFISH

CO-ORDINATES	Lat.	Long.	X	Y	MAP PROJECTION	GEOGRAPHICAL DESCRIPTION
Surface	38°34'45.210"S	148°14'29.616"E	608,145	5,729,170	AMG ZONE 55	2.2 MILES NE KINGFISH-1 2.5 MILES SW BONITA-1A
~~Bottom Hole~~						

ELEVATIONS & DEPTHS

ELEVATIONS	WATER DEPTH	TOTAL DEPTH	Avg.Angle
Ground KB 32' RT Braden Head Top Deck Platform	259'	M.D. 8240' T.V.D.	STRAIGHT HOLE
	PLUG BACK DEPTH 350'	REASONS FOR P.B. ABANDONMENT	

DATES

MOVE IN	RIG UP	SPUDDED
MAY 15, 1974	MAY 16, 1974	MAY 16, 1974.
RIG DOWN COMPLETE JUNE 4, 1974	RIG RELEASED JUNE 5, 1974	PROD.UNIT - Start Rigging Up
PROD.UNIT - Rig Down Complete	I.P. ESTABLISHED	

MISCELLANEOUS

OPERATOR	PERMITTEE or LICENCEE	ESSO INTEREST	OTHER INTEREST
ESSO AUSTRALIA LTD.,	HEMATITE	50%	50% HEMATITE

CONTRACTOR	RIG NAME	EQUIPMENT TYPE
GLOBAL MARINE A/ASIA PTY.LTD	GLOMAR CONCEPTION	FLOATING DRILLING VESSEL

TOTAL RIG DAYS	DRILLING AFE NO.	COMPLETION NO.	TYPE COMPLETION
20.42	234-103		

LAHEE WELL CLASSIFICATION		
	Before Drilling	FIELD OUTPOST
	After Drilling	UNSUCCESSFUL OUTPOST

Geologist

WELL KINGFISH-5

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

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

_____
Engineer

WELL KINGFISH- 5

IV	CASING - LINER - TUBING RECORD						
Type	Size	Weight	Grade	Thread	No. Joints	Amount	Depth
KB ELEVATION ABOVE CASING HEAD						282.00	282.00
	24" PILE JOINT					36.72	318.72
	20"	91.5#	X-52LP	CC X JV	1 joint	22.60	341.32
	20"	91.5#	X-52LP	JV	9 joints plus casing shoe	345.70	687.02
KB ELEVATION ABOVE HANGER							
	10-3/4"	40.5#	J-55	Butt	61 joints	2476.58	2764.58
	10-3/4"	40.5#	J-55	Butt	1 joint + float shoe & collar	46.00	2810.58

V	CEMENT RECORD		
String	20"	10-3/4"	
Type of Cement	750 sx Aust N + 350 sx Aust N + 2% $CaCl_2$	550 sx Aust N + 1% $CaCl_2$	
Number of FT^3	1298	649	
Average weight of slurry	15.6 ppg	15.6 ppg	
Cement Top	sea floor	1399 (calc)	
Casing Tested with	—	1500 psi	
Number of Centralizers	7	10	
Number of Scratchers	—	—	
Stage Collar etc.	—	—	
Remarks	—	Formation tested to 14.0 ppg equipment	

WALTERS
Engineer

VI

SUBSURFACE COMPLETION EQUIPMENT

DATE COMPLETED ____________

Schematic	Equipment Description	Length	Depth

NOT APPLICABLE

____
Engineer

WELL KINGFISH-5

VII SAMPLES, CONVENTIONAL CORES, SW CORES

INTERVAL	TYPE	RECOVERED	INTERVAL	TYPE	RECOVERED
750-4650, 4710-5040	5 sets washed & dried samples & 1 sack unwashed cuttings	Every 30 feet	8193-4500	30 SWC's	26
			NO CONVENTIONAL	CORES CUT	
4650-4710, 5040-6000, 6420-6440, 6640-6660, 7150-7170, 7660-8240	do	Every 20 feet			
6000-6420, 6440-6640, 6660-7100, 7170-7660	do	Every 10 feet			
4230-4389, 7100-7140		No cuttings recovered			
750-8240	Canned cuttings	Every 100 ft.			

VIII WIRELINE LOGS AND SURVEYS (Incl. FIT)

Type & Scale	From	To	Type & Scale	From	To
BHCS/GR 2" & 5"	2890-689 2890-291	BHCS GR			
ISF/Sonic 2" & 5"	8244-2746				
CNT/FDC/GR/Cal 2"&5"	8244-2746				
HDT 10" = 100'	8244-7400				
Velocity Survey, 11 levels	8119-3210				
F.I.T. 1	7845				

Geologist

WELL KINGFISH-5

IX FORMATION TOPS/Zones

NAME	Tops M.D.	Tops Sub-sea	Gross: Interval (ft)	Net Pay (Ft). Gas	Net Pay (Ft). Oil	REMARKS
GIPPSLAND FM. (Recent to Miocene)	291	-259	5735			
LAKES ENTRANCE FMN	6026	-5994	1607			
GURNARD FM	7633	-7601	7			
LATROBE "COARSE CLASTICS"	7640	-7608	600+			
Mid M. diversus unconformity	7788	-7756				

X GEOLOGIC ANALYSIS (Pre Drilling prognosis Vs actual results)

PRE-DRILL

Kingfish-5 was drilled on the basis of interpretation of the G73A seismic survey. A high velocity trend associated with the Miocene channels was extended over the Kingfish Field area rather than to the north of the structure. Thus, a north-east extension of the Kingfish Field was proposed. The area above the present oil-water contact (-7566') was increased, with the nose terminating at a major NW-SE trending fault, downthrown to the northeast.

It was anticipated that Kingfish-5 would intersect the high quality reservoir sands above the mid-M. diversus unconformity (as found in Mackerel-4, Bonita-1A and Kingfish-1) with some 190'± gross oil column.

POST DRILL

Kingfish-5 penetrated the top of the Latrobe Group at -7601', 221' low to prediction and 35' below the oil-water contact of the Kingfish Field. Lithological predictions were correct, with 141' of good reservoir sand being encountered between the top of the Latrobe and the Mid-M.diversus unconformity. While the high velocity trend associated with the Miocene channel was recognised, the inferred interval velocity for this section used in the pre-drill interpretation was too low. This variation in velocity resulted in an apparent Latrobe top surface that was too high. Despite the failure of Kingfish-5 to intersect oil-bearing sands, it did establish that the top of Latrobe is 200' higher than previously mapped. These results, combined with revised velocities, have been used to produce the new structure map for the top of the Latrobe for East Kingfish (Plate I). This map shows a significant extension of the Kingfish Field to the northeast.

C.H. FORD

Geologist

WELL COMPLETION REPORT

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APPENDIX 1

SAMPLE DESCRIPTIONS

SAMPLE DESCRIPTION

KINGFISH-5

D.Maughan/L. Elliott
19/5/74

DEPTH	%	DESCRIPTION
		20" casing to 686' 26" hole to 750'
750-780	90 10	Cement cavings Fossil fragments - forams, bryocoa, gastropods etc.
780-8100	70 30	Cement Fossil fragments,medium to coarse grained.
810-840	60 40	Cement Fossil fragments
840-870	50 50	Cement Fossils - forams - Elphedium, mostly bryozoa
870-900	40 60	Cement Fossils
900-930	30 70	Cement Fossils
[illegible]-960	30 70	Cement Fossils, as above with platy translucent aragonite (?) fossil remnants.
960-990	30 70	Cement Fossils, as above.
990-1020	20 80	Cement Fossils, as above, Elphedium, type forams, some well preserved bivalves.
1020-1050	10 90	Cement Fossils, mainly bryozoa, a few gastropod bivalves, and Elphidium forams, mainly white, some medium grey, some platy aragonite.
1050-1080	10 90	Cement Fossils - as above.
1080-1110	10 90	Cement Fossils, as above some textularid types.
[illegible]0-1140	10 90	Cement Fossils, as above, an occasional miliolines
1140-1170	20 80	Cement Fossils. Trace quartz, medium grained to well rounded.
1170-1200	20 80	Cement Fossils, fragments bryozoa etc and grey slightly calcareous altered fossil fragments.
1200-1230	10 90	Cement Fossils - as above.
1230-1260		As above
1260-1290	20 80	Cement Fossils, as above with abundant fine grained, subrounded to rounded quartz grains.
1290-1320	10 90	Cement cavings Fossil Fragments, forams, gastropods, brachiopods, etc and grey limestone replacing fragments.
1320-1350	40 60	Fossil fragments, as above,trace cement cavings. Very fine grained, light grey, non calcareous grains with some quartz

KINGFISH-5

D.Maughan
L. Elliott

DEPTH	%	SAMPLE DESCRIPTION
1350-1380	50	Fossil fragments as above
	50	Calcilutite - Calcarenite, white coloured with some d rk inclusions. Trace cement.
1380-1410	50	Fossils, as above.
	50	Calcilutite - calcarenite, as above. Trace quartz, well rounded clean, medium grained.
1410-1440	50	Fossils, as above.
	50	Calcilutite - calcarenite, as above
1440-1470	50	Fossils as above, rare ostracod .
	50	Calcilutite - calcarenite, as above
1470-1500		Fossils as above, with abundant cement cavings.
1500-1530		Fossils as above.
1530-1560		Fossils as above
1560-1590		Fossil fragments as above - cement caving still abundant
1590-1620	40	Fossils as above
	40	Calcilutite - calcarenite, as above
	20	Cement
1620-1650	30	Cement
	35	Fossils as above
	35	Calcilutite - calcarenite, as above.
1650-1680	35	Fossils, as above
	35	Calcilutite-calcarenite
	30	Cement
1680-1710	20	Cement
	40	Fossils, bryozoa dominant
	40	Calcilutite - calcarenite, white to grey.
1710-1740	20	Cement
	40	Fossils - as above
	40	Calcilutite - Calcarenite, as above
1740-1770	10	Cement
	60	Fossils, as above, mainly bryozoa
	30	Calcilutite - Calcarenite, as above
1770-1800	90	Fossils - as above, with abundant cement
	10	Calcarenite, as above, white to light grey, dark inclusions.
1800-1830	80	Fossil fragments - as above, trace cement.
	20	Calcarenite - as above
1830-1860		As above, abundant bryozoa.
1860-1890	60	Fossil, as above, trace cement.
	40	Calcarenite, white to light grey, with dark and black inclusions, moderate reaction to acid?
1890-1920	90	Fossil fragments.
	10	Calcarenite.
1920-1950	30	Fossil fragments.
	70	Calcarenite
1950-1980	50	Fossil Fragments as above
	50	Calcarenite, as above.
1980-2010	70	Fossil fragments, bryozoa dominant.
	30	Calcarenite

SAMPLE DESCRIPTIONS

KINGFISH-5

D. Maughan/L. Elliot
19/5/74

DEPTH	%	SAMPLE DESCRIPTION
1980-2010 continued		Trace quartz, well rounded, clear, medium grained.
2010-2040	50	Fossil fragments, as above.
	50	Calcarenite, as above.
2040-2070	40	Calcarenite, as above
	60	Fossil fragments, as above.
2070-2100	80	Fossil fragments, trace cement.
	20	Calcarenite.
2100-2130	80	Fossil fragments, trace cement
	20	Calcarenite.
2130-2160	60	Fossil fragments, bryozoa, gastropods etc. trace cement
	40	Calcarenite
2160-2190	50	Fossil fragments, as above with trace cement
	50	Calcarenite, light grey, moderate reaction to acid, dark inclusions, silty.
		Trace marl, light grey, very soft
2190-2220	60	Fossil
	40	Calcarenite
2220-2250	50	Fossil
	50	Calcarenite.
		Trace marl.
2250-2280	70	Fossil
	30	Calcarenite
2280-2310		As above
2310-2340		As above
2340-2370	60	Fossil, as above with large number of platy cleavage fragments.
	40	Calcarenite, light grey, few dark inclusions.Trace cement cavings.
2370-2400		As above
2400-2430	40	Fossil
	60	Calcarenite, as above, very silty.
2430-2460	A	As above.
2460-2490		As above, abundant bryozoa.
2490-2520		As above
2520-2550		Fossil fragments and cement cavings - connection.
2550-2580	10	Fossil fragments, bryozoa, gastropods.
	90	Calcarenite, light grey, few inclusions, silty.
		Trace cement.
2580-2610		As above
2610-2640	20	Fossils, as above, with cement cavings
	80	Calcarenite, as above, very silty.
2640-2670		As above with trace glauconitic calcareous grains.
2670-2700		As above, calcarenite has large non calcareous part (light grey, silty).
2700-2730	10	Fossils as above with some subrounded to rounded clear and frosted

SAMPLE DESCRIPTIONS
KINGFISH-5

D. Maughan/L. Elliott
20/5/74

DEPTH	%	SAMPLE DESCRIPTION
2700-2730		fine to medium grained, quartz grains.
continued	90	Calcilutite, calcarenite, light grey to grey, silty, some dark inclusions. Some glauconitic grains.
2730-2760	10	Fossils, as above.
	90	Calcilutite/Calcarenite, as above, with quarz grains as above and trace very soft brown mud.
2760-2790		As above.
2790-2820	10	Fossil fragments, bivalve, bryozoa, gastropod etc.
	90	Calcilutite/Calcarenite - as above, with subangular quartz grains.
		POH to run logs and set casing. 10-3/4" casing set at 2811'.
2820-2850	40	Fossils - bryozoa, bivalves.
	60	Cement
2850-2880	40	Fossil fragments, bryozoa, foraminifera, dolomitic in part.
	60	Cement
2880-2910	20	Fossil fragments, bryozoa, forams, bivalves, dolomitic in part.
	80	Cement.
2910-2940	10	Fossil fragments, as above
	90	Cement
2940-2970	20	Fossil fragments, as above
	80	Cement
2970-3000	10	Fossil fragments, as above
	90	Cement
3000-3030	10	Fossil fragments, as above.
	20	Marl, light grey, very soft, calcareous and some brown very soft mud.
	70	Cement cavings.
3030-3060	10	Fossil
	10	Marl
	80	Cement
3060-3090	10	Fossil
	20	Marl
	70	Cement
3090-3120		As above
3120-3150		As above
3150-3180		As above, marl, glauconitic in places
3180-3210	10	Fossil fragments.
	30	Marl, light grey, very soft, glauconitic in places and trace brown mud.
	60	Cement
3210-2340	10	Fossil Fragments
	30	Marl, light grey, silty, very soft, glauconitic, carbonaceous.
	10	Light grey, moderately firm, glauconitic micrite.
	50	Cement
3240-3270	10	Fossils
	20	Marl,
	20	Micrite
	50	Cement

SAMPLE DESCRIPTION
KINGFISH-5

D. Maughan/L. Elliott
21/5/74

DEPTH	%	SAMPLE DESCRIPTION
3270-3300	20	Fossil fragments, bryozoa etc.
	40	Micrite, moderately soft to moderately firm, glauconitic, light grey. Some soft marl, few subrounded, fine to medium grained clear quartz.
	40	Cement
3300-3330	10	Fossil Fragments, bryozoa, foraminifera, different type? Anphistegina.
	30	Micrite as above
	10	Marl, as above
	50	Cement
3330-3360	10	Fossil Fragments, as above
	40	Micrite, as above.
	10	Marl, as above
	40	Cement
3360-3390	60	Micrite, moderately form, light grey, glauconitic in part.
	40	Cement
		Trace Marl, very soft, light grey
		Trace fossil fragments, bryozoa, forams.
		Trace chert, light grey, hard, has white inclusions? a flint nodule in part.
[illegible]0-3420	10	Fossil and marl
	90	Cement, connection just before.
3420-3450		As above
3450-3480		As above
3480-3510	20	Marl as above
	20	Sandstone, subangular, fine to medium grained quartz, trace feldspar (microcline).
	60	Cement
3510-3540	10	Marl, light grey, soft.
	40	Micrite, light grey, fine grained, calcareous, moderately hard, glauconitic
	50	Cement, trace quartz, trace fossil fragments
3540-3570	10	Marl as above
	40	Micrite
	50	Cement. Trace fossil fragments
3570-3600	10	Marl, as above
	60	Micrite as above
	30	Cement, as above
		Trace quartz
		Trace fossil fragments
3600-3630	10	Marl as above
	70	Micrite, as above
	20	Cement
3630-3660	10	Marl, as above
	80	Micrite, as above, silty in part
	10	Cement
3660-3690	10	Marl, as above
	90	Micrite, as above, becoming very silty in part
		Trace cement
3690-3720	10	Marl, as above
	90	Micrite as above, very silty
		POH at 3727' - WASHOUT
3720-3750	10	Marl, as above
	60	Siltstone, light grey, moderately hard, calcareous, glauconitic, fine grained
	30	Micrite, light grey, soft to moderately hard, very calcareous, glauconitic, fine grained.
		Trace fossil fragments

D.Maughan/L.Elliott
21/5/74

DEPTH	%	SAMPLE DESCRIPTION
3750-3780	Trace	Marl as above
	10	Sandstone, very fine grained, glauconitic, light grey to white, hard, calcareous.
	70	Siltstone, as above
	20	Micrite
3780-3810	10	Cement, trace fossil fragments, bryozoa forams.
	30	Sandstone, very fine grained, glauconitic, calcareous , quartzose, light grey to white.
	50	Siltstone, fine grained, glauconitic, medium grey, calcareous, hard.
	10	Micrite, soft to hard, very calcareous, gluaconitic, medium grey.
3810-3840	10	Marl, very soft, light grey, calcareous , glauconitic
	20	Sandstone, as above
	60	Siltstone, as above
	10	Micrite, as above, trace fossil fragments, bryozoa, forams.
3840-3870	30	Marl, as above
	10	Sandstone, as above
	60	Siltstone, as above
		Trace Micrite, as above
3870-3900	40	Marl, as above
	60	Siltstone, as above
3900-3930		As above with trace fossils and hard, grey limestone
3930-3960	20	Marl, light grey, very soft.
	80	Siltstone, grey, moderately hard
3960-3990	20	Marl, probably more marl but washed away
	80	Siltstone
3990-4020		As above with trace fossils
4020-4050		As above
4050-4080	10	Marl, light grey, very soft, silty
	90	Siltstone, as above, becoming fissile
		Trace fossils
4080-4110	40	Fossil fragments, bryozoa, echinoid? forams.
	60	Siltstone
		Traces fine to medium grained, subrounded quartz and marl
4110-4140	10	Sandstone, subangular to subrounded quartz, medium grained
	10	Marl, as above
	30	Fossil fragments
	50	Siltstone
		Trace dark grey hard limestone
4140-4170	20	Marl, light grey, very soft.
	80	Siltstone, grey, calcareous, moderately hard, carbonaceous.
		Trace quartz, fossils
4170-4200		Trace fossils
	80	Siltstone, as above, glauconitic, becoming fissile at times, some soft soft light grey marl
	20	Cement
4200 -4230	100	Siltstone, calcareous, soft, medium grey, some light grey marl, very friable
		NO SAMPLES TO 4389'.
		Representative sample of interval: Siltstone, some glauconite, carbonaceous occasional hint of layering, calcareous, medium grey, moderately hard, some fossils, and hard, buff coloured limestone.
		POH @ 4389' to check string and new bit.

SAMPLE DESCRIPTION
KINGFISH-5

D. Maughan/L.Elliott
22/5/74

DEPTH	%	DESCRIPTION
-4390	100	Siltstone, calcareous, glauconitic, medium grey, moderately hard Trace fossil fragments Trace cement
4390-4410	100	Siltstone, as above, fissile in places, some medium grained quartz. Trace quartz, angular to coarse Trace fossil fragments
4410-4440	10 90	Marl, light grey, glauconitic, very soft Siltstone, as above, medium grey Trace fossil fragments
4440 -4470	10 90	Marl as above Siltstone, light grey to medium grey, fissile, some layering? due to glauconite.
4470-4500	100	Siltstone, as above Trace Marl, very glauconitic, as above Trace quartz, medium to coarse, clear, angular, friable in part.
		TWIST OFF AT 4516' -- POH

DEPTH	%	SAMPLE DESCRIPTION
4500-4530	100	Limestone, micritic, light brown, very fine to sandy, trace angular, clear, coarse grained quartz, fossil fragments
4530-4560	100	Limestone, micritic, light brown to light grey, trace interlaminated sandstone, very fine, subrounded to rounded, quartzose
4560-4590	100	Limestone, micritic, light brown to light grey, interlaminated sandstone very fine as above.
4590-4620	100	Micritic Limestone, silty, as above
4620-4650	100	Micritic Siltstone, light brown to light grey, fairly soft. Trace foram, coarse quartz.
4650-4670	100	Micritic siltstone, light brown to light grey, fairly soft, trace fossil, coarse quartz.
		WOW for 32 hrs.
4670-4690	100	Micrite - calcareous Siltstone, light brown to light grey, as above Trace siltstone, brown, Coal.
4690-4710	100	Micrite - calcareous siltstone, as above, carbonaceous. Trace light grey-green, very soft sandstone lithic, angular, very calcareous
4710-4740	70	Calcareous siltstone - micrite, as above, medium hard to soft,
	30	Silty mudstone, light grey, calcareous, very soft, similar composition as siltstone above only increased amount of kaolin matrix.
4740-4770	90	Siltstone, light brown to light grey, very calcareous, moderately hard, trace interlaminated sandstone, very fine, subrounded to rounded, quartzose.
	10	Mudstone, light grey, very calcareous, very soft.
4770-4800	90	Siltstone, light brown - light grey, very calcareous, as above
	10	Mudstone, light grey, very calcareous, soft, as above
4800-4830	80	Siltstone, light brown - light grey, calcareous, moderately hard, as above
	20	Mudstone, light grey, very calcareous, soft, as above
4830-4860	80	Siltstone, light brown to light grey, calcareous, moderately hard, as above.
	20	Mudstone, light grey, very calcareous, soft, as above.
4860-4890	80	Siltstone, light brown to light grey, calcareous, moderately hard, as above
	20	Mudstone, light grey, very calcareous, very soft, as above.
4890-4920	80	Siltstone, calcareous, as above.
	20	Mudstone, calcareous, as above.
4920-4950	80	Siltstone, calcareous, as above.
	20	Mudstone, calcareous, as above.
4950-4980	90	Siltstone, calcareous, as above
	10	Mudstone, calcareous, as above.
4980-5010	100	Siltstone, calcareous, light brown to mid grey, hard, as above
5010-5040	100	Siltstone, calcareous, light grown to mid grey, hard, as above
5040-5060	90	Siltstone, calcareous, light borwn to mid grey, hard as above, fossiliferous
	10	Mudstone, calcareous, light grey, as above
5060-5080	90	Siltstone, calcareous, light brown to mid grey, as above.
	10	Mudstone, calcareous, light grey, as above
5080-5100	90	Siltstone, calcareous, light brown to medium grey, hard, as above
	10	Mudstone, calcareous, light grey, as above

DEPTH	%	SAMPLE DESCRIPTION
		5115' POH N.B.
		HTC XDG
5115	90	Siltstone, calcareous, light brown to medium grey. moderately hard as above
	10	Mudstone, calcareous, light grey, as above.
5115-5120	90	Siltstone, calcareous, light brown-medium grey, moderately hard, carbonaceous, as above
	10	Mudstone, calcareous, light grey, carbonaceous as above
5120-5140	90	Siltstone, calcareous, light brown to medium grained, moderately hard as above.
	10	Mudstone, silty, calcareous, light grey as above.
5140-5160	95	Siltstone, calcareous, light brown-medium grey as above
	5	Mudstone, calcareous light grey, as above.
5160-5180	90	Siltstone, calcareous light brwon to medium grey, moderately hard carbonaceous, as above.
	10	Mudstone, silty, calcareous, light grey as above
[illegible]30-5200	90	Siltstone, calcareous, as above
	10	Mudstone, silty, as above
[illegible]0-5220	90	Siltstone, calcareous, light brown as above.
	10	Mudstone, shale, silty, calcareous, light grey, laminated, as above
5220-5240	90	Siltstone, light brown to medium grey, as above
	10	Mudstone, shale, silty, calcareous, light grey, laminated, as above
5240-5260	90	Siltstone, calcareous, light brown to medium grey, moderately hard, carbonaceous, as above
	10	Mudstone-Shale, silty, calcareous, very soft, laminated, as above
5260-5280	95	Siltstone, calcareous, light brown to medium grey, moderately hard, carbonaceous. Trace Coal
	5	Mudstone-Shale silty, calcareous, very soft, laminated, as above
5280-5300	90	Siltstone, calcareous, light brown to medium grey, moderately hard, carbonaceous
	10	Mudstone to Siltstone, calcareous, very soft, as above
5300-5320	90	Siltstone, calcareous, light brown to medium grey, moderately hard, carbonaceous
	10	Mudstone to Siltstone, calcareous, soft, as above
5320-5340	90	Siltstone, light brown to medium grey, calcareous, moderately hard, slightly carbonaceous, as above
	10	Mudstone, light grey, calcareous, soft, as above
5356		WOW 60hrs. 30 mins. on bottom 14.05. 28-5-74
5340-5360	100	Siltstone, light brown to medium grey, calcareous, moderately hard, as abov
5360-5380	80	Siltstone, light brown to medium grey, calcareous, moderately hard, carbonaceous, as above
	20	Mudstone, light grey, silty, calcareous, soft
5380-5400	90	Siltstone, light brown to medium grey, calcareous, moderately hard, carbonaceous, as above
	10	Mudstone, light grey, silty, soft, calcareous
5400-5420	90	Siltstone, light brown to medium grey, calcareous, soft-moderately hard, carbonaceous, as above
	10	Mudstone to Siltstone, light grey, calcareous, soft

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
5420-5440	80	Siltstone, light brown to grey, calcareous, moderately hard, small bit of carbon & no cut.
	20	Mudstone, light grey, calcareous, very soft, no cut, small foraminitera (Traces) unichambered, calcareous
5440-5460	100	Siltstone, light brown to medium grey, calcareous, moderately hard to moderately soft, slightly carbonaceous
5460-5480	100	Siltstone, as above
5480-5500	100	Siltstone, as above
5500-5520	100	Siltstone, as above, slightly increasingly carbonaceous content
5520-5540	100	Siltstone, brown to medium grey, calcareous, moderately hard, slightly carbonaceo
5540-5560	100	Siltstone, as above
5560-5580	90	Siltstone, as above
	10	Mudstone, light grey, calcareous, soft, as above
5580-5600	80	Siltstone, as above
	20	Mudstone, light grey, as above
5600-5620	80	Siltstone, as above
	20	Mudstone, as above
5620-5640	70	Siltstone, as above
	30	Mudstone, as above
5640-5660	80	Siltstone, moderately hard, as above
	20	Mudstone, grey to calcareous, soft, as above
5660-5680	90	Siltstone, grey to brown, as above
	10	Mudstone, as above
5680-5700	100	Siltstone, light brown to light grey, calcareous. Trace carbonaceous moderately soft to moderately hard, lithic Trace Mudstone, light grey, very soft, calcareous, kaolinitic
5700-5720	100	Siltstone, light brown to light grey, as above with carbonaceous fragments Trace Mudstone, light grey, very soft, calcareous
5720-5740	100	Siltstone, light brown to light grey, as above Trace Mudstone, as above
5740-5760	100	Siltstone, light brown to light grey increasingly light grey, calcareous, light brown, moderately hard, light grey moderately soft. Trace carbonaceous, lithic
5760-5780	100	Siltstone, light brown to light grey (10%), calcareous, moderately hard. Trace carbon, lithic
5780-5800	100	Siltstone, light brown to light grey (40%) calcareous moderately hard. Trace carbon, lithic, chlorite
5800-5820	100	Siltstone, light brown to light grey (40% slightly softer) calcareous. Trace carbon, lithic, chlorite, apple green, semi-translucent, very fine grained, angular to rounded
5820-5840	100	Siltstone, light brown to light grey (90%), calcareous. Trace carbon (as above) grey softer than brown, note green particles in siltstone as above

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
5840-5860	100	Siltstone, light brown (60%) light grey (40%), calcareous. Trace carbon, lithi moderately hard
5860-5880	100	Siltstone, light brown (50%), light grey (50% softer), calcareous. Trace lithic light grey, trace very fine glauconite, micromicaceous
5880-5900	100	Siltstone, light brown to light grey, calcareous, lithic, moderately hard. Trac glauconite, micromica
5900-5920	100	Siltstone, light brown to light grey (80%) calcareous, moderately hard. Trace glauconite, dark green, very fine
5920-5940	100	Siltstone, light brown (70%), light grey (30%) calcareous, lithic. Trace glaucor ite
5940-5960	100	Siltstone, light brown (60%) light grey (40%) calcareous, lithic. Trace glaucon
5960-5980	100	Siltstone, light brown (70%) light grey (30%) calcareous, lithic, glauconitic moderately hard. Strong trace mudstone, light grey, very soft, with kaolin matrix, silty
5980-6000	100	Siltstone, light brown to light grey, calcareous, silty, moderately hard to harc glauconite, quartzose (very finely sorted, subrounded, up to 20%)
6000-6010	100	Siltstone, glauconitic, calcareous, quartzose, as above. Trace mudstone, light grey, calcareous (? rock flow)
6010-6020	100	Siltstone, as above, trace mudstone, as above
6020-6030	50	Siltstone, light brown (10%), light grey (40%), calcareous, moderately hard (lig brown) to soft (light grey), slightly glauconitic, grading to
	50	Mudstone, light grey, calcareous, very soft, marl
		Trace Coal-lignite to carbonaceous shale - probably formation, may be CC16
6030-6040	70	Siltstone, light brown (40%) - light grey (30%), calcareous, slightly glauconiti soft to moderately hard, as above, grading to
	30	Mudstone, light grey, calcareous, as above
		Trace Coal - carbonaceous shale, as above
6040-6050	80	Mudstone-Marl, as above
	20	Siltstone, as above
		Trace Siltstone, as above
6050-6060	90	Mudstone-Marl, as above
	10	Siltstone, soft to medium, as above
6060-6070	90	Mudstone-Marl, as above
	10	Siltstone, soft to medium, as above
6070-6080	70	Mudstone-Marl, as above
	30	Siltstone, soft to moderately hard, as above
6080-6090	90	Siltstone, soft to moderately hard, as above
	10	Mudstone-Marl, as above. Trace fossils, pyritic
6090-6100	90	Siltstone, soft to moderately hard, as above
	10	Mudstone-Marl, as above. Trace fossils, pyritic
6110-6120	50	Siltstone, soft to moderately hard, as above
	50	Mudstone-Marl, as above. Trace fossils, pyritic
6120-6130	90	Siltstone, soft to moderately hard, as above
	10	Mudstone-Marl, as above

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
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DEPTH	%	SAMPLE DESCRIPTION
6130-6140	100	Siltstone, mid grey, slightly calcareous, sub-fissile, but soft, as above Trace Mudstone-Marl, as above
6140-6150	50	Siltstone, as above
	50	Mudstone-Marl, as above
6150-6160	70	Siltstone, as above
	30	Mudstone-Marl, as above
6160-6170	80	Siltstone, as above
	20	Mudstone-Marl, as above
6170-6180	70	Siltstone, as above
	30	Mudstone-Marl, as above. Fossils
6180-6190	50	Siltstone, as above
	50	Mudstone-Marl, as above
6190-6200	90	Siltstone, medium grey, slight to moderately calcareous, soft (70%) to hard (5%
	10	Mudstone-Marl, light grey, calcareous, very soft Trace Siltstone, light brown, hard, slightly glauconitic, slightly carbonaceous calcareous. Trace Siltstone, tan, calcareous, quartzose, (sandy, subrounded, 10% glauconitic, siliceous, very hard
6200-6210	70	Siltstone, medium grey, soft, as above
	30	Mudstone-Marl, as above Trace fossils
6210-6220	70	Siltstone, as above
	30	Mudstone-Marl, as above Trace fossils (forams, bryozoa - forams 75% plank.) some pyritic
6220-6230	30	Siltstone, as above
	65	Marl-Mudstone, as above
	5	Siltstone, medium grey, non-fissile, moderately hard, pyritic, fossils, moderat hard, pyritic, fossils (forams, etc., as above)
6230-6240	40	Siltstone, as above
	55	Marl-Mudstone, as above
	5	Siltstone, pyritic, as above
6240-6250	70	Siltstone, light grey to medium grey, calcareous, fossils
	30	Marl-Mudstone, very calcareous, very soft, sandy, with well rounded quartz grai and small lines of pyritic nodules. Trace Coal, small rounded fragments
6250-6260	90	Marl-Mudstone, light grey, very calcareous, very soft, sandy well rounded quart grains white and smokey, pyritic nodules, coal grains
	10	Siltstone, grey, calcareous Trace glauconite
6260-6270	70	Marl-Mudstone, light grey, very calcareous, very soft, sandy, well rounded quart grains, pyrite nodules, coal grains
	30	Siltstone, grey, calcareous, soft, grading to mudstone
6270-6280	80	Marl-Mudstone, very calcareous, light grey, very soft, sandy, well rounded, quar grains, pyrite nodules, rounded fragments of coal
	20	Siltstone-Mudstone, light to medium grey, fossil in places

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
6280-6290	70	Marl-Mudstone, very calcareous, light grey, very soft, sandy, rounded quartz grains, pyrite nodules, carbonaceous, round coal fragments
	30	Siltstone, grey, sandy, rounded quartz grains, pyrite nodules
6290-6300	70	Siltstone-Mudstone, grey sandy, with rounded quartz grains
	30	Marl-Mudstone, light grey, very calcareous, very soft, sandy, well rounded quartz grains, rounded coal fragments
6300-6310	80	Marl-Mudstone, very calcareous, light grey, very soft, sandy, rounded quartz
	20	Siltstone-Mudstone, very calcareous, sandy, soft
6310-6320	90	Marl-Mudstone, very calcareous, light grey, very soft, sandy rounded quartz, round coal fragments
	10	Siltstone-Mudstone, grey, calcareous, soft
6320-6330	90	Marl-Mudstone, light grey, very soft, very calcareous, sandy rounded quartz, pyrite nodules
	10	Mudstone-Siltstone, grey, soft, calcareous
6330-6340	90	Marl-Mudstone, light grey, very calcareous, sandy rounded quartz, rounded coal fragments
	10	Siltstone-Mudstone, grey, calcareous, soft, sandy. Trace pyrite
6340-6350	90	Marl-Mudstone, light grey, very calcareous, very soft, sandy
	10	Siltstone-Mudstone, grey calcareous. Trace pyrite
6350-6360	70	Marl-Mudstone, light grey, calcareous, very soft, rare coal fragments
	30	Siltstone-Mudstone, grey, calcareous. Trace pyrite
6360-6370	80	Marl-Mudstone, light grey, calcareous, very soft, fossiliferous (echinoid spines
	20	Siltstone-Mudstone, grey, calcareous. Trace pyrite. Quartz fine sand
6370-6380	70	Marl-Mudstone, light grey, calcareous, fossiliferous, coal fragments, angular, very soft
	30	Siltstone-Mudstone, grey, calcareous, trace pyrite, moderately soft, quartz fine sand
380-6390	90	Marl-Mudstone, light grey, calcareous, fossiliferous, angular coal fragments, very soft
	10	Siltstone-Mudstone, grey, calcareous, moderately soft, quartz sand fine
6390-6400	60	Marl-Mudstone, light grey, calcareous, fossilifer ous, coal fragments, very soft
	40	Siltstone-Mudstone, grey, calcareous, moderately soft, trace pyrite, quartz sand
6400-6410	60	Marl-Mudstone, light grey, calcareous, fossilifer ous, coal fragments angular, ver soft
	40	Siltstone-Mudstone, grey, calcareous, moderately soft, as above. Quartz sand rare
6410-6420	70	Marl-Mudstone, light grey, calcareous, fossilifer ous, coal fragments, very soft
	30	Siltstone-Mudstone, grey, calcareous, moderately soft, fine silt sized Quartz weathered pyrite?
6420-6440	90	Marl-Mudstone, light grey, calcareous, fossiliferous, very soft, coal fragments angular
	10	Siltstone-Mudstone, grey, calcareous, moderately soft, weathered pyrite specks. Qua
6440-6450	70	Marl-Mudstone, light grey, calcareous, very soft, fossiliferous, angular coal fragments
	30	Siltstone-Mudstone, grey, calcareous, moderately soft, rounded Quartz sand

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
6450-6460	60	Marl-Mudstone, light grey, calcareous, very soft, fossiliferous, angular coal fragments
	40	Siltstone-Mudstone, grey, calcareous, moderately soft, Rounded quartz sand
6460-6470	60	Marl-Mudstone, light grey, calcareous, very soft, fossiliferous angular coal fragments and pyrite
	40	Siltstone-Mudstone, grey, calcareous, soft, rounded quartz sand
6470-6480	80	Marl-Mudstone, light grey, very calcareous, very soft, fossiliferous, quartz sa rounded occassionally, pyrite, angular coal fragments
	20	Siltstone-Mudstone, grey, calcareous, moderately soft, quartz sand rounded occa. ionally
6480-6490	90	Marl-Mudstone, light grey, very calcareous, very soft, sandy, rounded quartz, disseminated, very fine, crystalline pyrite as well as nodules. Forams
	10	Siltstone-Mudstone, grey, calcareous, soft
6490-6500	70	Mudstone-Marl, light grey, very calcareous, very soft
	30	Siltstone, medium grey, slightly calcareous, moderately soft, sub-fissile. Trace forams and minor other fossil fragments Trace pyrite (Trace Coal)
6500-6510	80	Siltstone, as above
	20	Mudstone, as above Trace (heavy) fossil, mainly planktonic forams Trace pyrite
6510-6520	80	Siltstone, as above, but occasional grading to olive green
	20	Mudstone, as above Trace Fossil, as above Trace (heavy) pyrite, large aggregates and chips
6520-6530	90	Siltstone, as above, green becoming more elongate 50% of sample, and green chips
	10	Mudstone, as above Strong trace fossil, strong trace pyrite
6530-6540	60	Siltstone, as above
	40	Mudstone, as above Trace fossil, trace pyrite, trace dolomite, tan, very hard
6540-6550	60	Siltstone, medium grey to dark green, slightly calcareous, moderately soft, rarely slightly micaceous, rarely sandy (very fine, subrounded), fossil, sub-fis
	40	Mudstone, light grey, very calcareous, very soft Strong trace fossils, mostly planktonic forams, partly pyritic. Trace pyrite
6550-6560	60	Siltstone, as above
	40	Mudstone, as above Trace fossils
6560-6570	50	Siltstone, as above
	50	Mudstone, as above Trace fossils
6570-6580	60	Siltstone, as above
	40	Mudstone-Marl, as above Trace fossils
6580-6590	70	Siltstone, as above
	30	Mudstone-Marl, as above Trace fossils (benth forams, ostracodes, but mostly planktonics)

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
6590-6600	80	Siltstone, medium grey to olive green, slightly calcareous, moderately soft, sub-fissile, fossils, rarely slightly micaceous
	20	Mudstone-Marl, light grey, very calcareous, very soft
		Trace dolomite, tan, saccharoidal, very hard
		Strong trace fossils, mainly planktonic forams
		Slight trace quartz, moderately sorted, angular to subangular, clear
6600-6610	60	Siltstone, as above
	40	Mudstone-Marl, as above
		Slight trace fossil, trace pyrite
6610-6620	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Slight trace fossil, as above, trace pyrite
6620-6630	60	Siltstone, as above
	40	Mudstone-Marl, as above
		Trace pyrite, slight trace fossil
6630-6640	80	Siltstone, as above
	20	Mudstone-Marl, as above
		Strong trace pyrite, trace fossils, slight trace dolomite, as above
6640-6660	80	Siltstone, medium grey to olive green, slightly calcareous, moderately soft, sub-fissile, fossils
	20	Mudstone-Marl, light grey, very calcareous
		Slight trace dolomite, tan, very hard; slight trace fossils, planktonic forams
6660-6670	90	Siltstone, as above, mainly medium grey
	10	Mudstone-Marl, as above
		Strong trace fossils, trace pyrite, slight trace dolomite
6670-6680	90	Siltstone, as above, medium grey
	10	Mudstone-Marl, as above
		Strong trace fossils, slight trace pyrite
6680-6690	90	Siltstone, as above
	10	Mudstone-Marl, as above
6690-6700	70	Siltstone, medium grey (rarely olive green), moderately calcareous, moderately soft, sub-fissile, fossils (planktonic forams)
	30	Mudstone-Marl, light grey, very calcareous, very soft
		Strong trace planktonic forams and other minor fossils
		Trace dolomite, tan, very hard; trace pyrite
6700-6710	80	Siltstone, as above, pyritic
	20	Mudstone-Marl, as above
		Trace fossils, trace pyrite, trace dolomite
6710-6720	70	Siltstone, as above
	30	Mudstone-Marl, as above
		Strong trace fossils, trace pyrite, slight trace dolomite
6720-6730	80	Siltstone, as above
	15	Mudstone-Marl
	5	Fossils, mainly planktonic forams (95%)
		Trace pyrite
6730-6740	95	Siltstone, as above
	5	Mudstone-Marl, as above
		Trace dolomite, trace pyrite, trace fossils

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
6740-6750	90	Siltstone, medium grey to olive green, moderately calcareous, moderately soft, subfissile, slightly fossiliferous, slightly pyritic
	10	Mudstone-Marl, light grey, very calcareous, very soft
		Strong trace fossils (planktonic forams); trace pyrite
6750-6760	90	Siltstone, medium to dark grey, as above
	10	Mudstone-Marl, as above
		Trace fossils, as above
6760-6770	90	Siltstone, medium to dark grey, as above
	10	Mudstone-Marl, as above
		Slight trace fossil; slight trace pyrite
6770-6780	80	Siltstone, as above
	20	Mudstone-Marl, as above
		Strong trace fossils
6780-6790	70	Siltstone, as above, quite fossiliferous
	30	Mudstone-Marl, as above
		Strong trace fossils; trace pyrite
6790-6800	80	Siltstone, medium to dark grey (to olive green), slightly calcareous, moderately soft, subfissile, fossiliferous, pyritic, very rare lithic grains
	20	Mudstone-Marl, light grey, very calcareous, very soft
		Trace planktonic forams; trace pyrite
6800-6810	80	Siltstone, as above
	20	Mudstone-Marl, as above
		Trace fossils
6810-6820	70	Siltstone, as above
	20	Mudstone-Marl, as above
	10	Fossils (planktonic forams = 95%)
6820-6830	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Strong trace fossil
6830-6840	80	Siltstone, as above
	20	Mudstone-Marl, as above
		Trace fossil
6840-6850	90	Siltstone, medium grey, moderately calcareous, fossiliferous, moderately soft, subfissile, very very slightly carbonaceous
	10	Marl-Mudstone, light grey, very calcareous, very soft
		Trace fossils, planktonic forams
6850-6860	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Very slight trace glauconite in siltstone, as above, (faecal pellets), trace foss
6860-6870	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace pyrite
6870-6880	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Very slight trace fossil (planktonic forams); trace pyrite
6880-6890	95	Siltstone, as above
	5	Mudstone-Marl, as above
		Trace fossil; trace pyrite

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
6890-6900	95	Siltstone, as above, slightly darker grey
	5	Mudstone-Marl, as above
		Trace pyrite
6900-6910	90	Siltstone, medium grey to olive grey, slightly to moderately calcareous, moderately soft, sub-fissile, platy to splintery fracture, fossiliferous
	10	Mudstone-Marl, light grey, very calcareous, very soft
		Trace pyrite; trace fossils (planktonic forams)
6910-6920	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace fossil
6920-6930	70	Siltstone, as above
	30	Mudstone-Marl, as above
		Trace fossil; trace pyrite
6930-6940	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace fossil; trace pyrite, trace dolomite, tan, very hard, as before
6940-6950	80	Siltstone, as above
	20	Mudstone-Marl, as above
		Trace fossil; trace pyrite
6950-6960	90	Siltstone, medium grey to olive green, moderately soft, moderately calcareous, sub-fissile, fossiliferous, rarely slightly micaceous
	10	Mudstone-Marl, light grey, very soft, very calcareous
		Trace fossil (planktonic forams)
6960-6970	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace fossil
6970-6980	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace Sandstone, very silty (Siltstone, very sandy) buff, moderately soft, sand grains very fine to fine, subrounded, calcareous
		Trace pyrite, very slight trace fossil
6980-6990	90	Siltstone, as above
	10	Mudstone-Marl, as above
		Trace Sandstone, silty, buff, as above
6990-7000	85	Siltstone, as above
	10	Mudstone-Marl, as above
	5	Sandstone, silty, buff, as above
		Trace pyrite
7000-7010	90	Siltstone, medium grey to dark green, moderately calcareous, moderately soft, sub-fissile, platy, fossils, occassional pyrite
	10	Mudstone-Marl, light grey, very soft, very calcareous
		Trace Sandstone, silty, buff-grey, sand very fine to fine, subrounded grains, just floating, calcareous, moderately soft. Trace pyrite, trace fossil (planktoni forams)
7010-7020	90	Siltstone, as above
	5	Mudstone-Marl, as above
	5	Sandstone, as above
		Slight trace fossils
7020-7030	95	Siltstone, as above, becoming slightly sandy and slightly carbonaceous
	5	Mudstone-Marl
		trace fossils

SAMPLE DESCRIPTIONS

KINGFISH-5

S. Benedek/S. Giles
25/5/74

DEPTH	%	SAMPLE DESCRIPTION
7030-7040	95	Siltstone, as above
	5	Mudstone-Marl, as above
		Trace Sandstone, silty, as above; trace fossils; trace pyrite
7040-7050	95	Siltstone, medium grey to dark green, moderately calcareous, moderately soft, platy, fossiliferous, slightly pyritic, occassionally sandy (very fine, sub-rounded)
	5	Mudstone-Marl, (light grey, very soft, very calcareous)
7050-7060	100	Siltstone, medium grey, sandy, calcareous, soft, forams
		Trace Siltstone, very fine sandstone, light grey, soft, very argillaceous
7060-7070	100	Siltstone, medium grey to olive green, moderately calcareous, moderately soft, platy, fossils (planktonic forams), slightly pyritic, occassionally sandy (very fine, subrounded)
		Trace pyrite; trace fossils (planktonic forams)
7070-7080	100	Siltstone, as above
7080-7090	100	Siltstone, as above
		Trace fossils
7090-7100	100	Siltstone, as above
		POH 7149' N.B.
		NO SAMPLES 7100-7140 FORMATION FRACTURED DUE TO TIGHT HOLE. ABUNDANT CAVINGS PRODUCED BETWEEN 5900' and 7150'
7150'	100	Siltstone, medium grey, moderately soft to moderately hard, moderately calcareou fossils (planktonic forams), rarely micaceous, rarely sandy (very fine, subround Occas ionally sub-fissile - platy fracture
		Trace pyrite (aggregates)
7150-7170	100	Siltstone, as above, slight increase in sandy aggregates. Trace pyrite
7170-7180	100	Siltstone, as above
		Trace pyrite; trace Sandstone, buff, very fine, very argillaceous-silty, calcar-eous, moderately soft, 1 aggregate shows probable burrow (sandstone) within siltstone
7180-7190	100	Siltstone, as above
		Trace siltstone, glauconitic - otherwise as above, glauconite as pellets and generally more fossilifereous
7190-7200	100	Siltstone, medium grey, moderately soft, slightly calcareous, pyritic, fossils (planktonic forams), rarely sandy (very fine, subrounded), subfissile, platy fracture, as above. Trace pyrite, trace glauconite
7200-7210	100	Siltstone, as above
		Trace Sandstone, buff, argillaceous, as above. Very slight trace sand, medium to coarse, angular, unconsolidated grains
7210-7220	100	Siltstone, as above
		Strong trace sandstone, buff, argilleceous, very fine to fine, subrounded, calcare moderately soft to moderately hard.
		Trace pyrite, trace fossils; very slight trace quartz sand, medium, angular gra
7220-7230	100	Siltstone, grey grading to mudstone, micro micaceous, moderately soft, common foraminifera. Trace pyrite, trace sandstone, cream very fine, very argillaceous

DEPTH	%	SAMPLE DESCRIPTION
7230-7240	90	Siltstone, as above
	10	Mudstone, light grey, very soft, moderately calcareous, abundant pyrite aggregates.
		Strong trace Sandstone, buff, argillaceous, as above
7240-7250	80	Siltstone, as above
	20	Mudstone, as above
		Trace Sandstone, buff, as above
		C.O. @ 7252' - drilling break from mudstone, no shows
7250-7260	100	Siltstone, as above
		Trace mudstone, as above; trace sandstone, buff, as above; trace pyrite, trace fossils
7260-7270	100	Siltstone, grey, fossilifer ous,
		Trace pyrite; trace siltstone, buff
7270-7280	100	Siltstone, grey, fossiliferous, trace pyrite
		Trace sand, rounded, fine to medium grains
7280-7290	100	Siltstone, as above
		Trace fossils, slight trace quartz grains, medium to finely sorted, trace pyri
7290-7300	100	Siltstone, medium grey, moderately calcareous, moderately soft, slightly fossiliferous, occassionally pyritic, rarely micaceous, platy fracture, occas ionally sandy (grains very fine-fine, subrounded, floating)
		Trace mudstone, light grey, very soft, calcareous; trace pyrite, trace fossiliferous, mainly benth forams, especially arenaceous and miliolids
7300-7310	100	Siltstone, as above
		trace siltstone, buff, soft, calcareous, featureless
7310-7320	100	Siltstone, as above
		Trace Siltstone, buff, as above
7320-7330	100	Siltstone, as above
		Trace siltstone, buff, as above, trace fossils; trace pyrite
7330-7340	100	Siltstone, as above, occas ionally becoming sandy. Strong trace pyrite; trace fossils
7340-7350	90	Siltstone , medium grey, calcareous, fossils, moderately soft, platy fracture pyritic, trace as above but green (and mottled medium grey to green)
	10	Mudstone, light grey, very soft, very calcareous
		Trace fossils, trace pyrite
7350-7360	100	Siltstone, medium grey, as above
		Trace pyrite
7360-7370	100	Siltstone, as above
		Trace fossils
7370-7380	100	Siltstone, as above
		Strong trace mudstone, as above, trace fossils
7380-7390	100	Siltstone, as above
		Trace mudstone, trace fossils, trace pyrite
7390-7400	100	Siltstone, medium grey, moderately calcareous, moderately soft, rarely micaceo
		trace pyrite, trace fossils
7400-7410	100	Siltstone, medium grey, moderately soft, pyritic, trace glauconite
		Trace sandstone, buff, very fine, argillaceous

DEPTH	%	SAMPLE DESCRIPTION
7410-7420	100	Siltstone, grey moderately soft, fossiliferous, pyritic, large proportion is probably caving
7420-7430	100	Siltstone, grey, moderately soft, fossiliferous, calcareous, pyrite Trace Sandstone, buff, very fine, argillaceous
7430-7440	100	Siltstone, grey, moderately soft, fossiliferous, calcareous, pyrite Trace one grain Sandstone, light brown, calcareous, glauconitic
7440-7450	100	Siltstone, grey, moderately soft, fossiliferous, calcareous Trace Sandstone, light brown, very fine grained, calcareous, slightly pyritic
7450-7460	100	Siltstone, grey, moderately soft, calcareous Trace Sandstone, light brown, very fine, friable, calcareous. Trace glauconite
7460-7470	100	Siltstone, grey, moderately soft, calcareous, pyritic
7470-7480	100	Siltstone, grey, moderately soft, calcareous, fossiliferous
7480-7490	100	Siltstone-Mudstone, grey, moderately soft, calcareous Trace Sandstone, light brown to buff, very fine grained, friable, calcareous
7490-7500	100	Siltstone-Mudstone, grey, moderately soft, calcareous Trace Sandstone, light brown to buff, soft, calcareous, very fine grained, tig
7500-7510	100	Siltstone, grey, moderately soft, calcareous, pyritic Trace Sandstone, light brown to buff, friable, calcareous
7510-7520	100	Siltstone-Mudstone, grey soft, calcareous Trace Sandstone, light brown-buff, friable, very fine
7520-7530	100	Siltstone-Mudstone, grey, soft, calcareous
7530-7540	100	Siltstone, trace dolomite, grey, soft, calcareous, long slivers indicating lar amount of caving is still in the sample
7540-7550	100	Siltstone-Mudstone, grey, soft, calcareous Trace sandstone, light brown to buff, friable, very fine, tight, calcareous
7550-7560	100	Siltstone-Mudstone, grey, moderately soft, calcareous, fossiliferous
7560-7570	100	Siltstone-Mudstone, grey, moderately soft, calcareous, fossiliferous
7570-7580	100	Siltstone-Mudstone, as above
7580-7590	100	Siltstone-Mudstone, as above
		CIRCULATE SAMPLE 7655' APPROXIMATELY 15' INTO DRILLING BREAK 18-10, 1-6-74
7590-7600	100	Siltstone-Mudstone, as above, pyrite - the samples contain large proportion of long slivers of siltstone indicating cavings
7600-7610	100	Siltstone-Mudstone, grey, calcareous, fossilifereous
7610-7620	100	Siltstone-Mudstone, as above Trace sand, fine loose
7620-7630	100	Siltstone-Mudstone, grey calcareous, fossiliferous
7630-7640	80 20	Sand, quartz, white, loose, rounded, trace glauconite, pyrite, no shows Siltstone-Mudstone, as above
7640-7650	70 30	Quartz, medium to fine to coarse grained, angular to rounded, glauconitic Siltstone-Mudstone, as above

DEPTH	%	SAMPLE DESCRIPTION
7650-7660	80	Quartz sand, coarse, frosted white, rounded, well sorted, trace glauconite ar angular sandsize black coal
	20	Siltstone-Mudstone, grey calcareous, fossiliferous - cavings
7660-7680	100	Quartz sand, coarse-medium sized, frosted white, rounded, well sorted, trace glauconite and angular sandsize black coal
7680-7700	100	Quartz sand, as above
7700-7720	100	Quartz sand, as above
7720-7740	10	Quartz sand, coarse sized, frosted white, rounded, well sorted, trace angular black coal
7740-7760	100	Quartz sand, as above
7760-7780	100	Quartz sand, medium sand size to coarse, frosted white, rounded, well sorted Trace angular black coal
7780-7800	100	Quartz sand, medium to coarse, unconsolidated, subangular-rounded well sortec Trace angular black coal
7800-7820	100	Quartz sand, as above
7820-7840	100	Quartz sand, as above
7840-7860	90	Quartz sand, medium to coarse, unconsolidated, subangular to rounded, well sor
	10	Siltstone-Mudstone, grey, calcareous, fossiliferous
7860-7880	90	Quartz sand, unconsolidated, medium to coarse sand, subangular to rounded, well sorted
	10	Siltstone-Mudstone, grey, calcareous, fossiliferous
7880-7900	90	Quartz sand, medium to coarse grained, unconsolidated, frosted white, well sorted Trace angular black coal
	10	Siltstone-Mudstone, grey, calcareous, fossiliferous
		POH 7898' NB 10 XDV
7900-7920	100	Sandstone, white, coarse to very coarse, quartzose, medium to granule (sub-angular to angular) to rounded, fairly sorted, grey grains frosted and chippe
7920-7940	100	Sandstone, white, as above
7940-7960	100	Sandstone, white, coarse to very coarse, as above. Trace pyrite incorporated with sandstone, very slight trace glauconite (with sandstone)
7960-7980	100	Sandstone, white, coarse to very coarse, as above Trace Siltstone, medium brown, carbonaceous, moderately hard, non-calcareous (first Latrobe Group shale)
7980-8000	100	Sand, unconsolidated, quartz, clear to white, coarse, fairly sorted, rounded to minor sub-angular, rare lithic grains are commonly pyrite coated, some others are pyrite frosted as well.
8000-8020	100	Sandstone, white, coarse to very coarse, quartzose, grains medium to granular subangular to angular to rounded, fairly sorted, rare lithics, rare pyrite frosting, rare pyrite. Frosting and chipping and some larger grains
8020-8040	100	Sandstone, as above Trace Siltstone, off white, fine argilleous, slightly glauconitic, soft, tight non-calcareous
8040-8060	100	Sandstone, as above Trace pyrite, increasing cavings

DEPTH	%	SAMPLE DESCRIPTION
8060-8080	100	Sandstone, as above Trace Siltstone, light brown, moderately soft, very sandy (very fine, sub-rounded
8080-8100	100	Sandstone, white, coarse to very coarse, quartzose, medium to granule grains, moderately sorted, subangular to subrounded Trace Siltstone, light brown, carbonaceous, micaceous (Latrobe Group) 30% cavin
8100-8120	100	Sandstone, as above, generally coarse Trace pyrite 10% cavings
8120-8140	100	Sandstone, as above, coarse Trace Siltstone, medium brown, carbonaceous, moderately soft, non-calcareous 10% cavings
8140-8160	100	Sandstone, as above Trace Siltstone, as above 20% cavings
8160-8180	100	Sandstone, as above 20% cavings
8180-8200	100	Sandstone, coarse to very coarse, white quartzose, medium to granular grains, subrounded to rounded, fair to good sorting-common pyrite 30% cavings
8200-8220	100	Sandstone, coarse to very coarse, as above 40% cavings
8220-8240	100	Sandstone, coarse to very coarse, as above 40% cavings
		T.D.

WELL COMPLETION REPORT

KINGFISH-5

APPENDIX 2

SIDEWALL CORE DESCRIPTIONS

PAGE 1 OF 2

ATT REC

DATE 3rd June, 1974.

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO SWC RUN NO

GEOLOGIST MAUGHAN & FORD

SERVICE CO SCHLUMBERGER

WELL ...

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS 23
1	8193	½"	SLST	SDY,MICA,CARB	-	GR	SFT	VF	P												NS		
				PYR																			
2	8075	3/4"	SS	SLTY,GLAUC,	-	GR	VSFT	F	P	SR	20%												Trace C_1 in chromat-
				MICA,GRANULAR,																			ograph
				PYR																			
3	7780	1"	SS	ARG,S.GLAUC,	-	WH	V.FRI	M-CSE	P	SA/SR	20%										NS		
				PYR																			
4	7635	1"	SS	V.PYR,GLAUC,																			
				ARG	-	WH/GOLD	SFT	F-CSE	P	SA													TRACE C_1
5	7625	PO																					300 UNITS C_1
6	7450	1"	MDST		V	GR	FIRM																
7	7300	PO																					
8	7165	1½"	MDST		V	GR	FIRM																4500 C_1, 100C_2, TR
9	7137	1½"	MDST		V	GR	FIRM																C_5, TR C_4
10	7110	1½"	MDST	SLTY	V	GR	SOFT																
11	6856	1"	MDST	SLTY,SL.MIC	V	F.GR	FIRM																
12	6780	1"	MDST	SLTY	V	F.GR	SOFT																
13	6695	1¼"	MDST	SLTY,SL.MIC	V	F.GR	SOFT																
14	6550	1¼"	MDST	SLTY,SL.MIC	V	F.GR	SOFT																
15	6370	3/4"	MDST	SLTY,SL.MIC	V	F.GR	SOFT																
16	6330	3/4"	MDST	SLTY,SL.MIC	V	F.GR	SOFT																
17	6250	3/4"	MDST	SLTY,SL.MIC	V	F.GR	SOFT																
18	6165	½"	MDST	SLTY	V	BRN	SOFT																
19	6050	3/4"	MDST	SLTY,MIC	V	GR	FIRM																
20	6000	3/4"	MDST	SLTY	V	GR	SOFT																
21	5850	1"	MDST	SL.SLTY	V	GR	SOFT																
22	5700	3/4"	MDST	SL.SLTY	V	GR	SOFT																
23	5550	3/4"	MDST	SLTY	V	GR	SOFT																

FORM R 257 3/72

WELL KINGFISH-5

GEOLOGIST MAUGHAN & FORD

SERVICE CO. SCHLUMBERGER

ESSO AUSTRALIA LTD.
SIDEWALL CORE DESCRIPTIONS

IES RUN NO ..... SWC RUN NO 1

ATT ..... REG .....

DATE 3rd June, 1974.

FORM R 257 3/72

NO. 1a	DEPTH 1	REC 2	ROCK TYPE 3	MODIFIERS 4	CAL 5	COLOR 6	INDUR DEG 7	GRAIN SIZE 8	SRTG 9	RND 10	DISS CLAY 11	STAIN 12	FLOURESCENCE % RK	FLOURESCENCE DISTR 14	FLOURESCENCE INTEN 15	FLOURESCENCE COLOR 16	CUT FLUOR. INTEN 17	CUT FLUOR. COLOR 18	CUT RESIDUE QUAN 19	CUT RESIDUE COLOR 20	SHOW 21	PROB PROD 22	REMARKS - GAS 23
24	5400	½"	MDST	SLTY	V	GR	SOFT																
25	5250	½"	SLST	ARG.	V	GR	SOFT				30												
26	5100	NR																					
27	4950	3/4"	SLST	ARG	V	GR	SOFT				30												
28	4800	3/4"	SLST	ARG,SL.MIC	V	LT.GR	SOFT				30												
29	4650	3/4"	SLST	ARG,SL.MIC	V	LT.GR	SOFT				30												
30		NR																					

SIDEWALL CORE DESCRIPTION KINGFISH-5

CORE NO.	DEPTH	RECOVERY	DESCRIPTION
1	8193	½" (25%)	Sandstone, medium grey, very fine to fine grained, silty argillaceous, moderately sorted, angular to subangular, slightly micaceous. No show.
2	8075	3/4" (37%)	Sandstone, medium grey, medium grained, glauconitic, slightly micaceous, slightly pyritic, slightly calcareou moderately sorted, subangular to subrounded. No shows. Chromatog: Trace of C_1
3	7780	3/4" (37%)	Sandstone, white, fine to coarse grained, predominantly medium grained, slightly argillaceous, slightly glauconi very friable, poorly sorted, subangular to rounded. No shows. Chromatog: Trace C_1
4	7635	1" (50%)	Sandstone, white, fine to coarse grained, few granules c quartz and lithic fragments, clumps of pyrite and glauconite, slightly argillaceous. Sand poorly sorted, subangular to rounded. No show. Chromatog: Trace C_1
5	7625	N.R.	Pulled off
6	7450	1" (50%)	Marl, medium grey, slightly silty, slightly micaceous, firm, homogeneous. Chromatog: 300 units C_1
7	7300	N.R.	Pulled off
8	7165	1½" (75%)	Marl, dark grey, slightly silty, slightly micaceous, ver firm, homogeneous. Chromatog: 4500 C_1, 100 C_2, trace C_3 trace C_4.
9	7137	1½" (75%)	Marl, dark grey, slightly silty, very slightly micaceous fossiliferous (?forams), very firm, homogeneous
10	7010	1½" (75%)	Marl, dark grey, slightly micaceous, fossiliferous (?forams), very firm, interbedded laminae of light brown siltstone.
11	6856	1" (50%)	Marl, medium grey, silty, very slightly micaceous, fossiliferous (?forams), firm, homogeneous
12	6780	1" (50%)	Marl, light grey, silty, very slightly sandy, very slightly glauconitic, firm, homogeneous
13	6695	1¼" (62%)	Marl, light grey, silty, slightly micaceous, soft, fossiliferous (?forams), homogeneous
14	6550	1¼" (62%)	Marl, light grey, silty, slightly micaceous, soft, homogeneous
15	6370	3/4" (37%)	Marl, light grey, silty, slightly micaceous, slightly pyritic, firm, homogeneous
16	6330	3/4" (37%)	Marl, light grey, silty, slightly micaceous, soft, gradi into light grey calcareous siltstone
17	6250	1" (50%)	Marl, light grey, silty, slightly micaceous, fossiliferc (?forams), soft, homogeneous
18	6165	½" (25%)	Marl, brownish-grey, silty, very slightly sandy, soft, heavily coated with mud
19	6050	3/4" (37%)	Marl, medium grey, slightly silty, slightly micaceous, pyritic, firm, homogeneous

SIDEWALL CORE DESCRIPTION KINGFISH-5

CORE NO.	DEPTH	RECOVERY	DESCRIPTION
20	6000	1" (50%)	Marly Siltstone, very light grey, slightly sandy, slightly glauconitic, very soft, heavily coated with muc
21	5850	1" (50%)	Marly Siltstone, very light grey, very sandy, slightly glauconitic, slightly pyritic, poorly sorted, subrounded quartzose and lithic grains, very soft
22	5700	3/4" (37%)	Marly Siltstone, very light grey, sandy, glauconitic, quartzose, moderately sorted, subangular to subrounded grains, very soft.
23	5550	3/4" (37%)	Marly Siltstone, light grey, slightly sandy, slightly ? carbonaceous, very slightly glauconitic, very soft, heavily coated with mud
24	5400	½" (25%)	Marly Siltstone, light grey, slightly sandy, slightly carbonaceous (flecks), soft, heavily coated with mud
25	5250	½" (25%)	Marly Siltstone, light grey, slightly sandy, soft, heavily coated with mud
26	5100	N.R.	
27	4950	3/4" (37%)	Marly Siltstone, light grey, slightly sandy, carbonaceou flecks, soft, heavily coated with mud
28	4800	3/4" (37%)	Marly Siltstone, light grey, slightly sandy, few ? carbonaceous flecks, very soft, heavily coated with mud
29	4650	1" (50%)	Marly Siltstone, light grey, very slightly sandy, very soft, heavily coated with mud
30	4500	N.R.	

WELL COMPLETION REPORT

KINGFISH-5

APPENDIX 3

PALAEONTOLOGICAL REPORT

FORAMINIFERAL BIOSTRATIGRAPHY AND ENVIRONMENTAL ANALYSIS IN KINGFISH-5

by: David Taylor

20-7-74

Twenty three side wall cores were examined between the interval 7635' and 4650'. No fauna was found in the side wall core at 7635' and side wall cores at 4650' and 6370' contained sparse, indeterminate faunas.

OLIGOCENE to EARLY MIOCENE - 7450' to 6695'.

The oldest fauna represented typically Zone J-1 at 7450'. This was succeeded by faunas of Zone I-1 without the presence of I-2; the absence of I-2 is consistant with other sequence on the Kingfish structure. The Oligo-Miocene boundary fauna of Zone H-2 is a cool temperate "Novozealandic" one without any tropical elements, yet quite diagnostic of this biostratigraphic interval. Therefore the Oligocene was deposited between 7450' and 7137' and the Oligo-Miocene transition (= H-2) between 7010 and 6780'. The sample at 6695' contained a very immature multi-apertured globigerinid that could either be designated Globigerina woodi connecta or Globigerinoides trilobus. As the latter classification is favoured the side wall core is placed within Zone G but at the boundary with Zone H-1. Although benthonic foraminifera are sparse in this Oligocene to early Miocene globigerinid ooze (Planktonic % above 98% in all samples), it will be seen from the benthonic distribution sheet that it contains a fauna distinct from the benthos higher stratigraphically; in fact there are only 5 species in common. The total assemblage, both specifically and statistically suggests a continental rise deposit.

POSSIBLE MISSING SECTION in vicinity of 6695'to 6550'.

On the planktonic distribution chart there is discordance in specific ranges between 6695' and 6550', with only 3 species extending across and beyond this interval; the initial appearance of Globigerinoides trilobus is at 6550' and is noted above as a very early form taxonomically distinct from those above. Normally one would expect a number of morphotypic transitions between the fauna of 6695' and 6550! It is assumed that much of Zone G and all of Zones F & E are absent. Abrieviation of the biostratigraphic interval cannot be dismissed, but a failure to recognise Zones F & G were recorded by Taylor for Kingfish-1 and Kinfish-2, whilst Zones F & G occupied 750' in Kingfish-3, 500' in Kingfish B-1 and at least 300' in Kingfish A-1. In Kingfish-5 most of G and all of F and G would have to have been abrieviated into 145'. The discordance of benthonic faunas between 6695' and 6550' has often been recorded only at a generic level and this has considerable environmental significance. A similar benthonic taxonomic discordance has been recored in Kingfish-1 and Kingfish-2 where the absence of a biostratigraphic interval was suspected. Scouring or slumping may have removed Zone G to E sediment.

LATE MIOCENE (= mid Miocene) - 6550' to 4800' to ?4650' to ?.

The barliest appearance of Orbulina universa was at 6550' which marks the base of Zone D-2. This is deeper than in Kingfish-1 where the species appeared at 5600. But in Kingfish -1 the pentultimate forms appeared at 5820' marking the base of Zone E and the base of the late Miocene. Zone D-2 extends up to 6050' and the planktonic fauna is most diverse at 6165'. The faunas are dominantly planktonic and it is suggested that pelagic sediment was beginning to fill the scour which is suspected on evidence cited above. Faunas at and above 6000' represent Zone

numerical
D-1 with both ~~numerix~~ and specific sparsity. Both the planktonic and benthonic elements are shape and size sorted. The average diameter is .25mm. and the shape tends towards the spherical or lenticular. The benthonic species are a mixture of shelf and slope inhabitants. It is assumed that deposition was the result of high energy outer shelf and down slope currents. These sediments rapidly filled in the scour. Diagensis of specimens between 6000' and 4650' is obviously, to the extent that specimens at 4650' could not be distinguished, even at a generic level.

Form R 193 3/71

BASIN GIPPSLAND BY David Taylor

WELL NAME KINGFISH-5 DATE 3-7-74 ELEV. _____

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
MIOCENE	A						
	Alternate						
	B						
	Alternate						
	C						
	Alternate						
	D_1	4650	2		6000	1	
	Alternate	4950	0				
	D_2	6050	0		6550	1	
	Alternate						
	E						
	Alternate						
	F						
	Alternate						
	G	6695**	1		6695**		
	Alternate						
	H_1						
	Alternate						
	H_2	6780	1		7010	0	
	Alternate						
OLIGOCENE	I_1	7137	1		7165	1	
	Alternate						
	I_2						
	Alternate						
	J_1	7450	0		7450	0	
	Alternate						
	J_2						
	Alternate						
EOC.	K						
	Alternate						
	Pre K						

S.W.C. 7635' + no fauna found. S.W.C.'s at 4650' & 6370' contained indeterminate faunas.

** S.W.C. at 6780 is at base of G and hard to distinguish from H-1

COMMENTS: There is a possible missing section between 6550' and 6695' with Zones E & F absent due to scouring.

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 _____

WELL COMPLETION REPORT

KINGFISH-5

APPENDIX 4

PALYNOLOGICAL REPORT

PALYNOLOGICAL DETERMINATIONS FOR KINGFISH-5, GIPPSLAND BASIN, AUSTRALIA

Lewis E. Stover

SUMMARY

Of the three samples submitted from Kingfish, those from 8075 and 8193 feet contain palynomorphs indicative of the L.balmei spore-pollen zone. Recycled Early Cretaceous spores are present at 8193 feet. The palynological preparation from 7780 feet is barren.

ANALYSES

SWC 1 at 8193 feet
Age: Paleocene
Zone: L.balmei, confidence rating 0
Environment: Marginal marine
Kerogen Rating: 1+, immature

The residue from sidewall core 1 contains abundant cuticular and other organic debris together with relatively sparse spore-pollen and rare dinoflagellates. Recycled Early Cretaceous spores are present also.

SWC 2 at 8075 feet
Age: Paleocene
Zone: L.bâlmei, confidence rating 0
Environment: Marginal Marine
Kerogen rating: 1+, immature

The residue from sidewall core 2 is relatively free of cuticular material with most of the organic debris consisting of fragmented, dark, angular pieces of probably woody material. Spore-pollen are abundant, fairly diverse, fair to well preserved. Dinoflagellates are not only rare but are generally less well preserved than the spore-pollen. No recycled forms were observed.

SWC 3 at 7780 feet
Palynological preparation barren; kerogen preparation with insufficient organic material to permit analyses.

BASIN GIPPSLAND DATE 2nd copy

WELL NAME KINGFISH - 5 ELEVATION +32 feet

AGE	PALYNOLOGIC ZONES	HIGHEST DATA					LOWEST DATA				
		Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
MIO.	P. tuberculatus										
EOCENE	U. N. asperus										
	M. N. asperus										
	L. N. asperus										
	P. asperopolus										
	U. M. diversus										
	M. M. diversus										
	L. M. diversus										
PALEOCENE	U. L. balmei	8075	1				8193	1			
	L. L. balmei										
	T. longus										
CRETACEOUS	T. lilliei										
	N. senectus										
	C. trip./T.pach.										
	C. distocarin.										
	T. pannosus										
EARLY CRETACEOUS											
[redacted]-CRETACEOUS											

COMMENTS: The Wetz. homomorpha Dinoflagellate Zone occurs at 8075'.
Only 3 samples were examined. The other sample at 7780' is barren

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: L.E.S. DATE July 1974.

DATA REVISED BY: A.D.P. DATE Jan. 1975.

FORM No R 315 12/72

WELL COMPLETION REPORT

KINGFISH-5

APPENDIX 5

F.I.T. RESULTS

F.I.T. 1 @ 7845'

Initial Hydrostatic Pressure	4096.7	p.s.i.
Sampling Pressure	3371.3	p.s.i.
Shut-in Pressure	3371.3	p.s.i.
Final Hydrostatic Pressure	4086.3	p.s.i.
Sampling Time	16	mins.

Recovered :

9,500 cc Water; 18,700 ppm Cl^-; 50 ppm NO_3^-; Rrf 0.26 @ 70°F.

No Segregator
Temperatures : 188°/190°F

WELL COMPLETION REPORT

KINGFISH-5

APPENDIX 6

WELL LOG ANALYSIS REPORT

WELL LOG ANALYSIS REPORT

TO WELL FILE
cc. W.W. FRASER (2), C.N. CURNOW

OPERATOR ESSO AUSTRALIA LTD., WELL KINGFISH #5 DATE July 4, 1974.

STATE VICTORIA ELEV. 32'KB

DEPTH INTERVAL		POROSITY ESTIMATE	WATER SAT. ESTIMATE	REMARKS
7640-44	(4	18 -19.2	100	
7644-48	(4	19.7-20.6	100	
7648-57	(9	13.7-14.9	100	
7657-60	(3	17.7-19	100	
7660-65	(5	14.9-16	100	
7665-73	(8	19.4-20.8	100	
7673-76	(3	22.2-23.6	100	
7676-81	(5	20 -21.5	100	
7681-84	(3	13.7-14.9	100	
7684-7712	(28	18.6-19.8	100	
7712-16	(4	15.5-16.6	100	
7716-34	(18	17.1-18.3	100	
7[illegible]1-46	(12	19.4-20.8	100	
7[illegible]-51	(5	13.7-14.9	100	
7751-56	(5	16.6-17.7	100	
7756-63	(7	17.1-18.3	100	
7763-69	(6	10.2-11.4	100	
7769-75	(6	13.1-14.3	100	
7790-95	(5	21.5-22.9	100	
7795-97	(2	18.3-19.5	100	
7797-7804	(7	22.9-24.3	100	
7804-09	(5	25.6-26.8	100	
7809-17	(8	21.8-23.2	100	
7817-31	(14	25.6-26.8	100	
7831-34	(3	22.2-23.6	100	
7834-41	(7	25.6-26.8	100	
7841-48	(7	27.5-28.7	100	
7848-52	(4	24.3-25.6	100	
7852-65	(13	22.9-24.3	100	
7865-94	(29	25.6-26.8	100	
7[illegible]94-99	(5	24.3-25.6	100	
[illegible]9-7909	(10	25 -26.2	100	

ISF DEPTHS

TESTS:

--

FORMATION:

LATROBE

LOGS:

ISF-SCT, CNL-FDC-GR

COMMENTS:

--

R.B. KING

BY

PE902303

This is an enclosure indicator page.
The enclosure PE902303 is enclosed within the container PE902302 at this location in this document.

The enclosure PE902303 has the following characteristics:

ITEM_BARCODE	= PE902303
CONTAINER_BARCODE	= PE902302
NAME	= Geological Cross Section A-A'
BASIN	= GIPPSLAND
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= CROSS_SECTION
DESCRIPTION	= Geological Cross Section A-A' (plate 2 of WCR) for Kingfish-5
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W681
WELL_NAME	= Kingfish-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902304

This is an enclosure indicator page.
The enclosure PE902304 is enclosed within the container PE902302 at this location in this document.

The enclosure PE902304 has the following characteristics:

ITEM_BARCODE	= PE902304
CONTAINER_BARCODE	= PE902302
NAME	= Structure Map Top of Latrobe Group
BASIN	= GIPPSLAND
PERMIT	= VIC/L7
TYPE	= SEISMIC
SUBTYPE	= HRZN_CONTR_MAP
DESCRIPTION	= Structure Map Top of Latrobe Group (plate 1 of WCR) for Kingfish-5
REMARKS	=
DATE_CREATED	= 31/08/1974
DATE_RECEIVED	=
W_NO	= W681
WELL_NAME	= Kingfish-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601433

This is an enclosure indicator page.
The enclosure PE601433 is enclosed within the container PE902302 at this location in this document.

The enclosure PE601433 has the following characteristics:

ITEM_BARCODE	= PE601433
CONTAINER_BARCODE	= PE902302
NAME	= Well Completion Log
BASIN	= GIPPSLAND
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= COMPLETION_LOG
DESCRIPTION	= Well Completion Log (plate 3 of WCR) for Kingfish-5
REMARKS	=
DATE_CREATED	= 05/06/1974
DATE_RECEIVED	=
W_NO	= W681
WELL_NAME	= Kingfish-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902305

This is an enclosure indicator page.
The enclosure PE902305 is enclosed within the container PE902302 at this location in this document.

The enclosure PE902305 has the following characteristics:

ITEM_BARCODE	= PE902305
CONTAINER_BARCODE	= PE902302
NAME	= Time Depth Curve
BASIN	= GIPPSLAND
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Time Depth Curve (plate 4 of WCR) for Kingfish-5
REMARKS	=
DATE_CREATED	= 03/06/1974
DATE_RECEIVED	=
W_NO	= W681
WELL_NAME	= Kingfish-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601966

This is an enclosure indicator page.
The enclosure PE601966 is enclosed within the container PE903333 at this location in this document.

The enclosure PE601966 has the following characteristics:

ITEM_BARCODE	= PE601966
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 6 bariod Well log
BASIN	= GIPPSLAND
PERMIT	= VIC/L7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Kingfish 6 Bariod well log, page 1 of 25 (enclosure from WCR) for Kingfish-5
REMARKS	=
DATE_CREATED	= 2/06/74
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)

PE603482

This is an enclosure indicator page.
The enclosure PE603482 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603482 has the following characteristics:

ITEM_BARCODE	= PE603482
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 2 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603483

This is an enclosure indicator page.
The enclosure PE603483 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603483 has the following characteristics:

ITEM_BARCODE	= PE603483
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 3 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603484

This is an enclosure indicator page.
The enclosure PE603484 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603484 has the following characteristics:

ITEM_BARCODE	= PE603484
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 4 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603485

This is an enclosure indicator page.
The enclosure PE603485 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603485 has the following characteristics:

ITEM_BARCODE	= PE603485
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 5 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603486

This is an enclosure indicator page.
The enclosure PE603486 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603486 has the following characteristics:

ITEM_BARCODE	= PE603486
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 6 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603487

This is an enclosure indicator page.
The enclosure PE603487 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603487 has the following characteristics:

ITEM_BARCODE	= PE603487
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 7 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603488

This is an enclosure indicator page.
The enclosure PE603488 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603488 has the following characteristics:

ITEM_BARCODE	= PE603488
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 8 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603489

This is an enclosure indicator page.
The enclosure PE603489 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603489 has the following characteristics:

ITEM_BARCODE	= PE603489
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 9 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603490

This is an enclosure indicator page.
The enclosure PE603490 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603490 has the following characteristics:

ITEM_BARCODE	= PE603490
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 10 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603491

This is an enclosure indicator page.
The enclosure PE603491 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603491 has the following characteristics:

ITEM_BARCODE	= PE603491
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 11 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603492

This is an enclosure indicator page.
The enclosure PE603492 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603492 has the following characteristics:

ITEM_BARCODE	= PE603492
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 12 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603493

This is an enclosure indicator page.
The enclosure PE603493 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603493 has the following characteristics:

ITEM_BARCODE	= PE603493
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 13 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603494

This is an enclosure indicator page.
The enclosure PE603494 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603494 has the following characteristics:

ITEM_BARCODE	= PE603494
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 14 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603495

This is an enclosure indicator page.
The enclosure PE603495 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603495 has the following characteristics:

ITEM_BARCODE	= PE603495
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 15 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603496

This is an enclosure indicator page.
The enclosure PE603496 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603496 has the following characteristics:

ITEM_BARCODE	= PE603496
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 16 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603497

This is an enclosure indicator page.
The enclosure PE603497 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603497 has the following characteristics:

ITEM_BARCODE	= PE603497
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 17 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603498

This is an enclosure indicator page.
The enclosure PE603498 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603498 has the following characteristics:

ITEM_BARCODE	= PE603498
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 18 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603499

This is an enclosure indicator page.
The enclosure PE603499 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603499 has the following characteristics:

ITEM_BARCODE	= PE603499
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 19 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603500

This is an enclosure indicator page.
The enclosure PE603500 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603500 has the following characteristics:

ITEM_BARCODE	= PE603500
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 20 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603501

This is an enclosure indicator page.
The enclosure PE603501 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603501 has the following characteristics:

ITEM_BARCODE	= PE603501
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 21 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603502

This is an enclosure indicator page.
The enclosure PE603502 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603502 has the following characteristics:

ITEM_BARCODE	= PE603502
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 22 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603503

This is an enclosure indicator page.
The enclosure PE603503 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603503 has the following characteristics:

ITEM_BARCODE	= PE603503
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 23 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603504

This is an enclosure indicator page.
The enclosure PE603504 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603504 has the following characteristics:

ITEM_BARCODE	= PE603504
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 24 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603505

This is an enclosure indicator page.
The enclosure PE603505 is enclosed within the container PE902302 at this location in this document.

The enclosure PE603505 has the following characteristics:

ITEM_BARCODE	= PE603505
CONTAINER_BARCODE	= PE902302
NAME	= Kingfish 5 Mud Log
BASIN	= GIPPSLAND
PERMIT	= VIC L/7
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log for Kingfish-5 25 of 25
REMARKS	=
DATE_CREATED	= 31/07/1974
DATE_RECEIVED	=
W_NO	= W702
WELL_NAME	= KINGFISH-5
CONTRACTOR	= BAROID
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)