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	SEACOMBE SOUTH NO. 1	- 11 - 1 - 11 - 11 - 11 - 11 - 11 - 11
	COMPLETION REPORT	
	by	
n Artikarian Artikarian	Woodside Oil N.L.	
	February 1971	



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SEACOMBE SOUTH NO. 1 WELL

COMPLETION REPORT

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SEACOMBE SOUTH NO. 1 WELL

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FIGURE 1

SUMMARY

Seacombe South No. 1 well was spudded on 2nd.November 1970 and reached a total depth of 3,890 feet on 11th.November 1970. 1

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The well encountered the following sequence:-

	<u>Well I</u>)ept	<u>h</u>
Post-Gippsland Limestone Sediments	0'	- 1	.080'
Gippsland Limestone	1080'	- 3	310'
Lakes Entrance Formation	3310'	- 3	545'
Latrobe Valley Coal Measures	3545'	- 3	8901
		(T.D.)

The presence of a sandstone unit as a channel infill within the Gippsland Limestone originally postulated at the Seacombe South location was not present.

A gas show which was encountered in the top sands of the Latrobe Valley Coal Measures was tested over the interval 3535' - 3690'. The test recovered slightly gas cut water, mud and fine sand.

During the drilling, two conventional cores were cut, and sidewall cores were obtained to assist in the lithological interpretation and evaluation of the cuttings and logs.

1. <u>GENERAL DATA</u>

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(A)	Well name and number:	Seacombe South No. 1		
(B)		Lat. 38° 08' 29.30" S Long. 147° 29' 06.70" E Datum: Australian Geodetic Datum Parish: Seacombe		
(C)	Names of Tenement Holders:	Woodside Oil N.L. (Operator) Australian Oil and Gas Corp. Ltd. Continental Oil Co. of Aust. Ltd. B.O.C. of Australia Ltd. Planet Exploration Co. Pty. Ltd.		
(D)	Petroleum Tenement:	Petroleum Exploration Permit 72 issued by the State of Victoria		
(E)	Total Depth:	3890 feet		
(F)	Date drilling began:	2nd.November 1970		
(G)	Date reached T.D.:	11th.November 1970		
(H)	Testing (D.S.T.):	2 days		
(I)	Date well plugged:	14th.November 1970		
(J)	Date rig released:	15th.November 1970		
(К)	Drilling time to T.D.:	9 days		
(L)	Rig up and down:	3 days		
(M)	Elevation:	Ground Level: - 6.07 feet		
		Kelly Bushing: 6.26 feet		
		Rotary Table: 5.78 feet		
		Datum: Williamstown		
(N)	Status:	Plugged and abandoned		

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2. DRILLING DATA

(A) Contractor: Woodside Oil N.L.'s drilling rig and equipment were operated by Richter Bawden Drilling Pty. Ltd.'s drilling crew.

(B) Drilling Plant:

Make:		Brews	ster
· Type:		N4	
Rated	capacity	with	
$3\frac{1}{2}$ "	drill pip	pe:	7500'
	capacity		
42"	drill pip	be:	6000'
Motors	5:	G.M.	6/71

(C) Mast:

Make:	Lee C. Moore
Type:	Cantilever
Capacity:	386,000

(D) Pumps - Two:

Make:	0ilwell
Type:	P214
Size:	$7\frac{1}{4}$ " x 14"
Motors:	G.M. 6/71
Motors:	G.M. 6/71

(E) Blowout preventer equipment:

(i)	Make:	Cameron	(ii)	Make:	Regan 10"
	Size:	12"		Series:	900
	Series:	900			

(F) Hole Sizes and Depths:

26"	to	50'
$17\frac{1}{2}$ "	to	150'
$12\frac{1}{4}$ "	to	1250'
8 <u>3</u> "	to	3890'

(G) Casing and Cementing Details:

Size	20"	13 <u>3</u> "	9 <u>5</u> "
Weight	Conductor	48 1bs	36 1bs
Grade	Pipe	н40	J55
Range		2	2
Setting Depth	50'	140	1236
Type of Collar	-	Nil	Float Collar
Depth Collar		-	1164
Type Shoe		Float Shoe	Guide Shoe
Cement Plug		Bottom only	Top and bottom
			plugs
Depth Shoe		140	1236
Centralizers		Nil	2
Qty. Cement	100	180	310
Method used	Halliburton	Halliburton	Halliburton

- (II) Drilling Fluid:
 - (i) Type:

A Freshwater - Bentonite - Lignosulphonate system of drilling mud was generally used throughout the well.

From O' to 210' a freshwater conventional mud with minor treatment was used. From 210' to F.D. a Milwhite lignosulphonate system was used with regular treatments of unicol, milcon, caustic soda, supercol and cellucol.

(ii) Average Properties:

<u>Week</u>	Depth Ft.	<u>Weight lbs.</u> U.S. Gall.	Visc. Secs/ 946 cc	$\frac{W.L}{c.c}$.	$\frac{FC}{ins}$.	<u>рн</u> .
1	2009	9.7	50	9.0	3/32	9.6
2	3 890	9.8	48	6.8	2/32	9.4



	<u>lbs</u> .		lbs.
Cal. chloride Soda ash Sodium Bi. carb. Ligcon XP 20 Unicol Caustic Soda Synergic	1,330 1,493 1,960 2,100 300 3,350 980 348	Myrtan Supercol Mica Zeogel Salt Gel Q. Broxin Cellucol	900 15,750 168 1,596 1,550 450 484

(I) Water Supply:

Water was pumped from a water hole 1.2 miles from the rig. In addition 30,000 gallons were carried to the rig by a water tanker.

- (J) Perforations and Shooting: Nil
- (K) Plug back and cementation jobs:
 - (a) The well was plugged back from 3890' to 3660', and the cement cleaned out to 3690' before running D.S.T. No. 1.
 - (b) Abandonment Plugs were set in the well after testing:-

3690'		3490'
1336'	-	1136'
50'	-	0'

- (L) Fishing Operation: Nil
- (M) Side-tracking hole: Nil

(N) Deviation:

•					1			
	$1\frac{3}{4}^{0}$	at	150 feet	2 ⁰ at 1550 feet	$1\frac{1}{2}^{0}$	at	2640 i	feet
	$1\frac{1}{2}^{0}$	at	244 feet	$1\frac{1}{4}^{0}$ at 2059 feet	1 <u>0</u>	at	3210 í	Seet
	<u>3</u> 0 4	at	666 feet	$1\frac{1}{4}^{0}$ at 2323 feet	$1\frac{1}{2}^{0}$	at	3860 f	Ceet
	2 ⁰	at	1099 feet	$1\frac{1}{4}^{0}$ at 2473 feet				

3. LOGGING AND TESTING

(A) Ditch cuttings

Representative samples were collected at the shale shaker every 10 feet. These samples were washed, dried and examined. Sample descriptions are given in Appendix 2. ウ

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- (B) <u>Coring</u>
 - (i) Two conventional cores were cut:-
 - (a) Core 1: 2473' 2487'. Recovered 11 feet (78.6%)
 - (b) Core 2: 2670' 2684'. Recovered 2 feet (14.3%)

Details of these are given in Appendix 3.

- (ii) Twenty-three sidewall cores were recovered.
 Details of these cores are included in Appendix
 4, with an explanation of the running of the C.S.T.
 which did not function properly.
- (C) Electrical and other logs

Schlumberger Seaco Inc. ran the following logs:

(i) Induction Electrical log:

Run 1: 1245' - 3889'

(ii) Borehole Compensated Sonic/Gamma Ray Log:

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Run 1: 1245' - 3878' (Gamma Ray 20' - 3878')
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(iii) Compensated Formation Density:

Run 1: 3080' - 3879'

(D) Drilling Time

Drilling time was recorded by a "Geolograph" mounted on the derrick floor. The penetration rate is plotted on the composite log (Enclosure 1).

(E) Gas Log

Gas detecting equipment including gas chromatography was supplied, operated and maintained by Data Analysis Pty. Ltd. at the well site. The equipment was operated from a depth of 130' to total depth. The gas detector readings are plotted on the composite log (Enclosure 1).

(F) <u>Testing</u>

One drill stem test was conducted over the interval 3535' - 3690' and recovered slightly gas cut water with fine sand. A full report is included in Appendix 5.

REGIONAL GEOLOGY

The regional geology of the Gippsland Basin, in which Seacombe South No. 1 well is located, is outlined in the Colliers Hill Well Completion Report, page 7.

STRATIGRAPHY

The sequence found in Seacombe South No. 1 was as follows:-

Age	Formation	Well Depth	Thickness
Upper -Miocene - Recent	Post-Gippsland Limestone Sediments	01	1080'
Lower and Middle Miocene	Gippsland Limestone	1030'	2230'
Oligocene	Lakes Entrance	· 3310'	2351
Eocene	Latrobe Valley Coal Neasures	35451	345' +

T.D. 3890'

The recognition of the rock units given in the stratigraphic Table is based on conventional and sidewall cores, cuttings and wireline log characters. These characters were correlated with Wellington Park Nos. 1 & 2, Bengworden South No. 1 and Spoon Day No. 1. The ages assigned to the rock units are those generally accepted to these units in the Gippsland Basin. (Hocking 1965 & Jenkin 1963).

Post Gippsland Limestone (0' - 1080')

In preparing the reports for earlier wells drilled the wireline log characters were the most useful features for stratigraphic breakdown coupled with well correlation. Because a full suite of logs was not run above 1245' it was thought best not to attempt a full stratigraphic division in the top part of the well.

Based on cuttings and gamma ray log the top of the Jemmy's Point Formation probably occurs at 410' and the top of the Tambo River Formation at 710'. Above 410' the presence of coal indicates that the Boisdale Beds were also encountered.

The details of the rock units drilled are shown on the Composite Log (Chelosure 1).

Gippsland Limestone (1080' - 3310')

The top of the unit is selected on the first appearance of a limestone, as seen in the cuttings. The general lithology consists of interbedded crystalline limestone, coquina, calcarenite marks, and marky limestone, which is often partly very clayey with varying amounts of loose glauconite.

The coquina consists of sponge spicules, coral stems, skeletal remains, bryozoans and pelecypods.

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From 2473' to 2487' and from 2670' to 2684' two cores were cut to verify the lithology. A detailed description of the cores is included in Appendix 3 and 4. 7

Lakes Entrance Formation (3310' - 3545')

The lithology of the Lakes Entrance Formation is very similar to Spoon Bay No. 1 with the same wire-line log characters which were used to select its top. The top of the formation is characterised by marls which are found interbedded with calcareous mudstones. Towards the base of the unit, at least two thin bands of dolomite occur. These are separated by massive calcareous mudstones, contrasting with the occurrence at Spoon Bay where the interbedded material is a glauconitic sandstone.

Latrobe Valley Coal Measures (3545' - 3890' (T.D.))

At the Seacombe South No. 1 well the Latrobe Valley Coal Measures consists of an upper fine-grained sandstone bed and a lower sequence of fine to coarse-grained sandstone with interbedded coal. These two units are separated by a 10' dolomite bed.

Because the cuttings did not indicate a lithological change from the marine sediments of the overlying Lakes Entrance Formation to the none-marine sediments of the LVCM until 3700', the selection of the top of the LVCM was made on the basis of the sidewall cores as being between 3500' and 3560' with the final selection of 3545' being chosen from the wire-line logs.

RESULTS OBTAINED FROM DRILLING

(1) Seacombe South No. 1 well was drilled to examine a feature that had been interpreted on the seismic lines as a channel within the Gippsland Limestone. The predicted interval for this channel was 2500' - 2800' and it was planned to cut at least one core if the channel was encountered. During drilling at a depth of 2430' a small amount of coal was found and so a core was cut. This core did not show any evidence of a channel. In order to confirm that the lithology was similar throughout the interval of the predicted channel a second core was cut at 2670'. These two cores, sidewall cores, and wire-line logs indicate that if a channel was present then it is filled with the same sediments that occur above and below.

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An indication of hydrocarbons was seen on the gas detector equipment when drilling the top sands of the LVCM (3495' - 3740') with the chromatographic analysis showing up to 60 units of methane.

A drill stem test carried out over the interval 3535' - 3690' yielded slightly gas cut water, mud and fine sand. The slight amount of gas present is considered to represent a minor amount of residual dissolved gas which has not been flushed from the Latrobe Valley Coal Measures because of the fine-grained nature of the top sands of the LVCM.



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CADASTRAL DESCRIPTION:

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Crown Allotment 19^a Parish: Booran County: Buln Buln

Surveyed by	A.J. May	Approved	P.F. Gardner
Calculations	A.J. May	Date	20/11/70.
Drawn	A.J. May	Drawing No.	177/1

ENGINEERING SURVEYS (AUSTRALIA) PTY. LTD. 166-168, Albert Road, SOUTH MELBOURNE.

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PE906290

This is an enclosure indicator page. The enclosure PE906290 is enclosed within the container PE902798 at this location in this document.

The enclosure PE906 ITEM BARCODE =	5290 has the following characteristics:
CONTAINER_BARCODE =	
NAME =	Locality Map
BASIN =	GIPPSLAND
PERMIT =	PEP72
TYPE =	GENERAL
SUBTYPE =	SRVY_MAP
DESCRIPTION =	Location of S.P. 43
REMARKS =	
DATE_CREATED =	19/08/70
DATE_RECEIVED =	
W_NO =	W613
WELL_NAME =	SEACOMBE SOUTH-1
CONTRACTOR =	ENGINEERING SURVEYS (AUST) PTY LTD
CLIENT_OP_CO =	WOODSIDE OIL COMPANY

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WOODSIDE OIL N.L.

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SEACOMBE SOUTH I.

SEACOMBE SOUTH NO. 1

DRILL CUTTINGS SAMPLE DESCRIPTIONS

· ·	Depth	• •	Lithologic Description
		· .	
· ·	0 - 35		No samples collected.
· ·	35 - 80	•	Drift sand comprising very coarse to coarse grained quartz, with occasional pebbles. Some
•		•	grey silty clay. Minor shell fragments, mica and chips of coal (black).
•	80 - 160		Coarse gravel, reddish-brown sand and minor grey sandy clay, often lumpy.
• •	160 - 170	•	80% <u>Gravel</u> , brown, granule to pebble size with minor coarse sand. 20% <u>Clay</u> , reddish-brown, kaolinitic, calcareous.
•	170 - 180	ч. П	50% <u>Gravel</u> , as above. 50% <u>Clav</u> , as above.
	180 - 190		70% <u>Clay</u> , reddish-brown, sandy, calcareous. 30% <u>Gravel</u> , as above.
	190 - 200		75% <u>Clay</u> , reddish-brown. 25% <u>Gravel</u> , comprising abundant reddish-brown, clear cloudy coarse to very coarse quartz, well
		•	sorted, no cement, occasionally very fine grained, pale grey sandstone calcareous.
	200 - 210	• • •	75% <u>Clay</u>) 25% <u>Gravel</u>) as above.
	210 - 220	•	60% <u>Clav</u>) as above, with occasional dark pebbles.
	220 - 230		60% <u>Clay</u> 40% <u>Gravel</u>) as above.
•	230 - 240		90% <u>Clay</u> , dark grey, ozzy, washes away easily. 10% <u>Gravel</u> , comprising abundant pebbles and coarse to very coarse reddish brown, clear, cloudy quartz, well sorted, abundant pyrite
		• • •	(fine grained), black coal specks.
			Top of Boisdale Beds - 235 feet.
•	240 - 250		$75\% \frac{\text{Clay}}{\text{Gravel}}$ as above.
	250 - 260	•	$75\% \frac{\text{Clay}}{\text{Gravel}}$ as above.

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260 - 270	100% Loose sand, poorly consolidated, pale grey comprising abundant coarse to very coarse colourless, cloudy, reddish-brown, yellow quartz, well sorted, good porosity. Abundant pyrite aggregates, woody fragments, coal chips, weathered feldspars. Some clay.
270 - 280	75% <u>Sand</u> , as above. 25% <u>Clay</u> , grey, washes away easily.
280 - 290	90% <u>Sand</u> , as above, moderately well sorted. Good porosity. 10% <u>Clay</u> , as grey lumps, washes off easily. Abundant carbonaceous material, i.e. woody fragments and coal chips.
290 - 300	$\begin{array}{ccc} 90\% & \underline{Sand} \\ 10\% & \underline{Clay} \end{array} \end{array} \right) \qquad \text{as above.}$
300 - 310	90% Sand) as above. 10% Clay)
310 - 320	$\begin{array}{ccc} 75\% & \underline{Sand} \\ 25\% & \underline{Clay} \end{array} \end{array} \right) \qquad \text{as above.}$
320 - 330	$\begin{array}{ccc} 75\% & \underline{Sand} \\ 25\% & \underline{Clay} \end{array} \end{array} \right) \qquad \text{as above.}$
330 - 340	$\begin{array}{ccc} 75\% & \underline{Sand} \\ 25\% & \underline{Clay} \end{array} \end{array} \right) \qquad \text{as above.}$
340 - 350	$50\% \frac{\text{Sand}}{\text{Clay}}$ as above.
350 - 360	$60\% \frac{\text{Sand}}{\text{Clay}}$, as above, not lumpy.
360 - 370	60% <u>Sand</u> , as above, with increase in medium to fine grained quartz. 40% <u>Clay</u> , as above.
370 - 380	$\begin{array}{ccc} 75\% & \underline{Sand} \\ 25\% & \underline{Clay} \end{array} \end{array} \qquad \begin{array}{c} \\ \end{array} \qquad as above. \end{array}$
380 - 390	$\begin{array}{ccc} 75\% & \underline{Sand} \\ 25\% & \underline{Clay} \end{array} \end{array} \right) \qquad \text{as above.}$
390 - 400	$90\% \frac{\text{Sand}}{\text{Clay}}$) as above.
400 - 410	75% <u>Sand</u> , pale grey, comprising abundant, loose colourless, cloudy, grey quartz, fine to coarse grained, subangular, subrounded, poorly sorted. 25% <u>Limestone</u> comprising fossil fragments. Abundant pyrite and mica.
	Tentative top of Jemmy's Point Formation 400'.
410 - 420	75% <u>Sand</u> .) as above occasionally 25% <u>Fossiliferous fragments</u>) with silty components
420 - 430	75% <u>Sand</u>) as above, very 25% <u>Fossiliferous fragments</u>) micaceous.

16/65 SEACOMBE SOUTH I.

430 - 440	50% <u>Sand</u> .) 50% <u>Fossil fragments</u> .) as above, lithics.
440 - 445	50% <u>Sand</u> .) as above. Fossil 50% <u>Fossil fragments</u> .) fragments include corals and gastropods.
445 - 450	100% <u>Marl</u> , dark grey, bluish grey, oozy, washes away easily, very silty. Some fossil fragments, sand as cavings.
	Tentative top of Tambo River Formation 445'.
450 - 460	100% <u>Marl</u> , silty.
460 - 470	90% <u>Marl</u> , as above. 10% <u>Fossiliferous fragments</u> .
470 - 480	75% <u>Marl</u> .) as above. 25% <u>Fossiliferous fragments</u> .)
480 - 490	75% <u>Marl</u> 25% <u>Fossiliferous fragments</u> .) as above.
490 - 500	75% <u>Marl</u> .) as above.
500 - 510	$50\% \frac{Marl}{Fossiliferous fragments}$ as above.
510 - 520	75% Fossiliferous fragments, dominantly gastropods, ditrupa worm casts and coral matter. 25% Marl, grey, oozy, not recoverable.
520 - 530	75% <u>Fossil fragments</u> .) 25% <u>Marl</u> .) as above.
530 - 540	50% <u>Marl</u> . 40% <u>Fossil fragments</u> , abundant corals, gastropods. 10% <u>Siltstone</u> , pale grey, speckled lithic inclusions. Sandy in parts.
540 - 550	60% Marl.)as above, abundant30% Fossil fragments.)coal fragments10% Siltstone.)(probably cavings).
550 - 560	40% <u>Marl</u> . 40% <u>Fossil fragments</u> , corals, ditrupa worm casts. 15% <u>Siltstone</u> . 5% <u>Sand</u> , loose quartz, colourless,cloudy, fine grained, speckled.
560 - 570	50% <u>Marl</u> .) 25% <u>Fossil fragments</u> .) 25% <u>Sandstone</u> .)
570 - 580	50% <u>Marl</u> .) 25% <u>Fossil fragments</u> .) as above. 25% <u>Sandstone</u> .)

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SEACOMBE SOUTH I.

580 - 590	50% <u>Marl</u> . 25% <u>Fossil fragments</u> .) as above. 25% <u>Sandstone</u> , dominantly very fine grained.
590 - 600	$75\% \frac{Marl}{Fossil fragments}$ as above.
600 - 610	75% <u>Marl</u> .) as above, occasional 25% <u>Fossil fragments</u> .) skeletal limestone.
610 - 620	75% <u>Marl</u> . 25% <u>Fossil fragments</u> , including gastropods and echinoderms.
620 - 630	90% Marl, as above, occasionally lumpy, silty. 10% Fossil fragments.
630 - 640	75% <u>Marl</u> , grey, dark grey, silty in places. 25% <u>Fossil fragments</u> , including gastropods, echinoderms, corals, also ditrupa worm casts.
640 - 650	75% <u>Marl</u> , as above. 25% <u>Fossil fragments</u> .
650 - 660	75% <u>Marl</u> .) as above. 25% <u>Fossil fragments</u> .)
660 - 670	75% <u>Marl</u> .) 25% <u>Fossil fragments</u> .) as above.
670 - 680	80% <u>Marl</u> . 20% <u>Fossil fragments</u> . as above.
680 - 690	80% <u>Marl</u> , dark grey. 20% <u>Fossil fragments</u> , as above, abundant molluscs.
690 - 700	90% <u>Marl</u> .) as above.
700 - 710	80% <u>Marl</u> , dark grey, bluish grey. 10% <u>Fossil fragments</u> . 10% <u>Calcarenite</u> , pale grey, strongly calcareous, occasional loose quartz, poorly cemented, abundant lithic inclusions. First appearance of calcarenites, although traces of calcarenite were noted in the preceding sample.
	Tentative top of Gippsland Limestone - 700'.
710 - 720	90% <u>Marl</u> .) as above, marl 10% <u>Calcarenite</u> .) assuming a greenish grey tinge. Only traces of fossil fragments.
720 - 730	90% <u>Marl</u> .) as above, trace 10% <u>Calcarenite</u> .) fossil fragments.
730 - 740	90% <u>Mar1</u> .) as above.

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		SEACOMBE SOUTH I.
	740 - 750	100% Marl, greenish grey, silty in part, trace fossil fragments.
	750 - 760	100% <u>Marl</u> , greenish grey, washes away easily. Trace fossil fragments and calcarenite.
	760 - 770	100% Marl, greenish grey, as above.
	770 - 780	100% Marl, as above.
	780 - 790	100% Marl, as above, rare fossil fragments.
	790 - 800	100% Marl, as above.
	800 - 810	100% Marl, as above.
	810 - 820	100% Marl, as above.
	820 - 830	100% Marl, as above.
	830 - 840	100% Marl, as above.
	840 - 850	100% Marl, as above.
	850 - 860	100% <u>Marl</u> , as above, occasional calcarenite with flecks of coal.
	860 - 870	100% Marl, as above.
	870 - 880	100% Marl, as above.
	880 - 890	100% <u>Marl</u> , greenish grey, fossiliferous, glauconitic, calcarenite, trace of coal, shell fragments, corals, echinoid stems.
	890 - 900	100% Marl, as above.
	900 - 910	100% Marl, as above.
	910 - 920	100% Marl, as above.
	920 - 930	100% <u>Marl</u> , as above, angular, clear quartz grains and lithic fragments, pyritic.
	930 - 940	100% Marl, as above.
	940 - 950	100% Marl, as above.
and the property of the second s	950 - 960	100% <u>Marl</u> , greenish grey, very fossiliferous, shell fragments, forams, echinoid stems, corals, trace of glauconite, pyrite and coal, very fine grained quartz and orange lithic fragments 5 - 10%.
	960 - 970	100% Marl, as above, calcarenite increasing.
	970 - 980	100% Marl, as above.
	980 - 990	100% Marl, as above, limestone and detritals about 50% of sample.
	990 - 1000	100% <u>Marl</u> , as above, limestone and detritals about 50%.
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19/65 SEACOMBE SOUTH I.

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1000 - 1010	100% Marl, as above.
1010 - 1020	100% <u>Marl</u> , as above, limestone and detritals 50 - 60%, very fossiliferous.
1020 - 1030	100% Marl, as above, limestone and detritals 50 - 60%.
1030 - 1040	100% Marl, as above, limestone and detritals 50 - 60% .
1040 - 1050	100% Marl, as above.
1050 - 1060	100% Marl, as above.
1060 - 1070	100% Marl, as above.
1070 - 1080	100% Marl, as above.
1080 - 1090	90% <u>Limestone</u> , light grey to white, glauconitic, micritic, very fossiliferous, sandy, soft to firm, corals, bryozoa, stems. 10% <u>Marl</u> , as above.
1090 - 1100	90% <u>Limestone</u> , as above. 10% <u>Marl</u> , as above.
1100 - 1110	90% <u>Limestone</u> , as above. 10% <u>Marl</u> , as above.
1110 - 1120	90% <u>Limestone</u> , as above. 10% <u>Marl</u> , as above.
1120 - 1130	90% <u>Limestone</u> , as above. 10% <u>Marl</u> , light grey.
1130 - 1140	80% Limestone, as above. 20% Marl, as above.
1140 - 1150	80% <u>Limestone</u> , as above. 20% <u>Marl</u> , as above.
1150 - 1160	80% <u>Limestone</u> , as above. 20% <u>Marl</u> , as above.
1160 - 1170	60% <u>Limestone</u> , as above. 40% <u>Marl</u> , light grey.
1170 - 1180	70% <u>Limestone</u> , light grey, micritic, glauconitic, carbonaceous, very fossiliferous, quartz grains, and orange lithic fragments. 30% <u>Marl</u> , as above.
1180 - 1190	60% <u>Limestone</u> , as above. 40% <u>Marl</u> , as above.
1190 - 1200	$\frac{80\%}{Mar1}$, as above, abundant forams. $\frac{20\%}{Mar1}$, as above.
1200 - 1210	70% <u>Limestone</u> , as above. 30% <u>Marl</u> , as above.

SEACOMBE SOUTH I. - 7 -1210 - 1220 70% Limestone, as above. 30% Marl, as above. 1220 - 1230 80% Limestone, as above. 20% Marl, as above. 80% Limestone, as above, micaceous. 20% Marl, light grey to brown carbonaceous, 1230 - 1240 micaceous. 1240 - 1250 90% Limestone, as above. 10% Marl, as above. 1250 - 1260 50% Fossiliferous limestone, comprising lamellibranchs, corals, echinoids. 25% Marl, bluish grey, silty in part. 20% Calcarenite, pale grey, very fine grained, speckled. 5% Sand, loose, colourless, yellow quartz. 1260 - 1270 50% Fossiliferous limestone. 25% <u>Marl</u>. 20% <u>Calcarenite</u>. as above. 5% Sand. 1270 - 1280 40% Fossiliferous limestone. 30% Marl. as above. 20% Calcarenite. 10% Sand. 40% Marl. 30% Fossiliferous limestone. 1280 - 1290 as above. 20% Calcarenite. 10% Sand. 40% Marl. 1290 - 1300 30% Fossiliferous limestone. 20% Calcarenite. as above. 10% Sand. 50% Marl. 40% Fossiliferous limestone. 1300 - 1310 as above, only trace of quartz. 10% Calcarenite. 50% <u>Marl</u>. 40% <u>Fossiliferous limestone</u>. 10% <u>Calcarenite</u>. 1310 - 1320 as above. 50% <u>Marl</u>. 40% <u>Fossiliferous limestone</u>. 1320 - 1330 as above. 10% Calcarenite. 50% Marl. 40% Fossiliferous limestone. 1330 - 1340 as above. 10% Calcarenite. 50% <u>Marl</u>. 40% <u>Fossiliferous limestone</u>. 10% <u>Calcarenite</u>. 1340 - 1350 as above. 1350 - 1360 40% Marl. as above. 40% Fossiliferous limestone. 20% Calcarenite. Samples are contaminated with diesel fuel.

	•	1. The second			
~	•		• •		21/65
	·	•		-8- SEACOMBE	SOUTH I.
	1360	- 1370		50% <u>Fossiliferous limestone</u> .) as 25% <u>Marl</u> .) as 25% <u>Calcarenite</u> , as above with rare green lithics.	above. dark
	1370	- 1380		50%Fossiliferous limestone.)25%Calcarenite.)25%Marl.)	above.
	1380	- 1390	•	50% <u>Fossiliferous limestone</u> . 25% <u>Marl</u> . 25% <u>Calcarenite</u> .	above.
	1390	- 1400		50%Fossiliferous limestone.25%Marl.25%Calcarenite.	above.
	1400	- 1410		60%Fossiliferous limestone.30%Marl.10%Calcarenite.	above.
		- 1420		60% <u>Fossiliferous limestone</u> .) 30% <u>Marl</u> .) as 10% <u>Calcarenite</u> .	above.
	· · ·	- 1430	•	70% Fossiliferous limestone.) 25% Marl.) as 5% Calcarenite.) as	above.
	1430	- 1440		75% Fossiliferous limestone. 35% Marl. as	above.
	1440	- 1450		50% <u>Marl</u> , greyish green, silty in par 50% <u>Fossiliferous limestone</u> , with tracalcite.	rt. aces of
	1450	- 1460	•	75% Fossiliferous limestone, with rat Occasional glauconite embedded within 25% Marl, as above.	re calcite. n matrix.
· · · ·	1460	- 1470	. <u>.</u>	25% <u>Marl</u> .) rei	above with lative n glauconite.
	1470	- 1480	• • •	80% <u>Fossiliferous limestone</u> , with fra gastropods, lamellibranchs, and cora 10% <u>Marl</u> , bluish grey to grey, silty 10% Occasional calcarenite components	Ls.
	1480	- 1490	*	$\begin{array}{c} 10\% \ \underline{Calcarenite} \\ 10\% \ \underline{Marl} \\ \end{array} \begin{array}{c} 0 \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \end{array} $ \end{array}	above with casional hard vstalline mestone,
				traces of green glauconite grains.	
· ·	1490	- 1500		25% Calcarenite.) occ 10% Marl.) cry	above with casional hard vstalline
•				Occasional glauconite grains.	nestone.

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· ·				22/65 SEACOMBE SOUTH I.
				-9- SEACOMBE SOUTH I.
	1500 -	1510		50% Limestone, comprising 75% fossiliferous limestone and the rest, dark grey, grey crystalline limestone, hard, often layered. 40% <u>Calcarenite</u> , pale grey, well cemented, occasionally dark green or black lithics. Rare glauconite grains. 10% <u>Marl</u> , as above.
	1510 -	1520		50% <u>Limestone</u> . 40% <u>Calcarenite</u> . 10% <u>Marl</u> .) as above, abundant fossil fragments.
	1520 -	1530		60%Limestone.)as above, dominantly made30%Calcarenite.)up of fossil fragments and10%Marl.)crystalline limestone.
	1530 -	1540		70%Limestone.as above, with prominent20%Calcarenite.dark green, black lithic10%Marl.inclusions.
ал ^С ан) – ал	1540 -	1550		60% <u>Limestone</u> , comprising of fossiliferous fragments and crystalline limestone. 30% <u>Calcarenite</u> , with occasional inclusions of dark green black lithics and glauconite grains. 10% <u>Marl</u> .
	1550 -	1560		70% <u>Limestone</u> .) 20% <u>Calcarenite</u> .) as above. 10% <u>Marl</u> .)
· ·	1560 -	1570		70% <u>Calcarenite</u> , as above. 30% <u>Limestone</u> , as above. Trace of coal and quartz grains.
	1570 -	1580	•	803 <u>Calcarenite</u> , as above. 20% <u>Limestone</u> , as above.
	1580 -	1590		80% <u>Calcarenite</u> , white to medium grey, very fine grained, glauconite inclusions, speckled appearance, very fossiliferous. 20% <u>Limestone</u> , white to medium grey, crystalline with fossil fragments, trace of coal.
)	1590 -	1600		70% <u>Calcarenite</u> , as above. 30% <u>Limestone</u> , as above.
	1600 -	1610		70% <u>Calcarenite</u> , as above. 30% <u>Limestone</u> , as above.
	1610 -	1620		80% <u>Calcarenite</u> , as above. 20% <u>Limestone</u> , as above.
	1620 -	1630		60% <u>Calcarenite</u> , as above. 40% <u>Limestone</u> , as above.
	1630 -	1640		60% <u>Limestone</u> , as above. 40% <u>Calcarenite</u> , as above.
	1640 -	· 1650 ·		50% <u>Calcarenite</u> , as above. 50% <u>Limestone</u> , as above.
	1650 -	1660		60% <u>Calcarenite</u> , as above. 40% <u>Limestone</u> , as above.
	1660 -	• 1670		70% <u>Calcarenite</u> , as above. 30% <u>Limestone</u> , as above.

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- 10 -1670 - 1680 90% Calcarenite, as above. 10% Limestone, as above. 90% Calcarenite, as above. 1680 - 1690 as above. 10% Limestone, 90% Calcarenite, as above. 1690 - 170010% Limestone, as above. 1700 - 1710 90% Calcarenite, as above. 10% Limestone, as above. 90% Calcarenite, as above. 1710 - 1720 10% Limestone, as above. 90% Calcarenite, as above. 1720 - 1730 10% Limestone, as above. 1730 - 1740 80% Calcarenite, as above. 20% Limestone, as above. 80% <u>Calcarenite</u>, as above. 10% <u>Limestone</u>, as above. 1740 - 1750 10% Marl, light brown. 80% <u>Calcarenite</u>, as above. 10% <u>Limestone</u>, as above. 10% <u>Marl</u>, as above. 1750 - 1760 80% <u>Calcarenite</u>, as above. 10% <u>Limestone</u>, as above. 1760 - 1770 10% Marl, as above. 1770 - 1780 80% <u>Calcarenite</u>, as above. 10% Limestone, as above. 10% Marl, as above. 1780 - 179090% Calcarenite, white to medium grey, speckled, very fine grained, glauconitic, fossiliferous. 10% <u>Limestone</u>, white to medium grey, crystalline, fossiliferous, corals, forams abundant. 1790 - 180080% Calcarenite, as above. 20% Limestone, as above. 1800 - 1810 90% Calcarenite, as above, trace of clay. 10% Limestone, as above. 1810 - 1820 100% Calcarenite, as above. 1820 - 1830 100% Calcarenite, as above. 1830 - 1840 100% Calcarenite, as above. 1840 - 1850 100% Calcarenite, as above, very fossiliferous, abundant forams, corals, trace of clay. 90% Calcarenite, as above. 1850 - 1860 10% Marl, light brown. 90% <u>Calcarenite</u>, as above. 10% <u>Marl</u>, light brown. 1860 - 1870

SEACOMBE SOUTHI

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SEACOMBE SOUTH I.

1870 - 1880	80% <u>Calcarenite</u> , as above. 20% <u>Marl</u> , light greyish brown.
1880 - 1890	80% <u>Calcarenite</u> , as above. 20% <u>Marl</u> , as above.
1890 - 1900	70% <u>Calcarenite</u> , as above. 30% <u>Marl</u> , as above.
1900 - 1910	40% <u>Calcarenite</u> , as above. 30% <u>Marl</u> , as above. 30% <u>Limestone</u> , white to medium grey, crystalline, very fossiliferous.
1910 - 1920	60% <u>Calcarenite</u> , as above, clayey. 40% <u>Limestone</u> , as above.
1920 - 1930	60% <u>Limestone</u> , as above, very fossiliferous. 40% <u>Calcarenite</u> , as above, clayey.
1930 - 1940	70% <u>Limestone</u> , white to light grey, very fossiliferous. 30% <u>Calcarenite</u> , as above.
1940 - 1950	60% <u>Calcarenite</u> , as above. 40% <u>Marl</u> , light grey, brown.
1950 - 1960	70% <u>Calcarenite</u> , white to light grey, speckled, fossiliferous, glauconitic. 30% <u>Marl</u> , light grey, brown, very oozy.
1960 - 1970	70% <u>Calcarenite</u> , as above. 30% <u>Marl</u> , light grey, brown.
1970 - 1980	60% <u>Calcarenite</u> , as above. 40% <u>Marl</u> , as above.
1980 - 1990	60% <u>Calcarenite</u> , as above. 40% <u>Marl</u> , as above.
1990 - 2000	50% <u>Calcarenite</u> , as above. 50% <u>Marl</u> , as above.
2000 - 2010	80% <u>Calcarenite</u> , white to medium grey, speckled, occasional glauconite. 10% <u>Limestone</u> , white, crystalline, fossiliferous. 10% <u>Marl</u> , light grey-brown, very soft, oozy.
2010 - 2020	70% <u>Calcarenite</u> , as above. 20% <u>Marl</u> , as above. 10% <u>Limestone</u> , as above.
2020 - 2030	70% <u>Calcarenite</u> .) as above. 30% <u>Limestone</u> .)
2030 - 2040	70% Calcarenite.) as above. Trace of marl. 30% Limestone.)
2040 - 2050	80% <u>Calcarenite</u> , white to medium grey, massive, fossils, occasional angular quartz grains and glauconite. 20% <u>Marl</u> , reddish brown.

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			- 12 -	Ser	tCOMBE	25/65 SOUTH I	•
	•	• •	- 12 -	• -			
	2050 - 2060		60% <u>Calcarenite</u> , 40% <u>Limestone</u> , wh fossiliferous wit	ite to me			
· · · ·	2060 - 2070		50% Limestone, fo				•
	•••		variety with glau foraminiferal rem	ains.			
		•	25% <u>Calcarenite</u> , and colourless v 25% <u>Marl</u> , bluish	arieties.		wnite,	
	2070 - 2080	• .	50% Limestone:)	· ·		
		•	25% <u>Marl</u> . 25% <u>Calcarenite</u> .) as a	bove.	· .	
	2080 - 2090		50% <u>Limestone</u> . 25% Marl.		bove.		•
			25% Calcarenite.) as a			
	2090 - 2100	•	75% Limestone, at comprising coral lamellibranchs ar	stems, ec d forams.	hinoids, ga Occasiona	astropods, al dark	
			green lithics and crystalline limes	stone, pal			
•		•	Some vuggy porosi 15% <u>Calcarenite</u> ,	as above.			
	• •		10% <u>Marl</u> , grey, c off easily.	occasional	Ly Silty, V	vasnes	•
	2100 - 2110	•	75% <u>Limestone</u> . 15% <u>Calcarenite</u> . 10% <u>Marl</u> .)) as a	bove.		
	2110 - 2120		75% Limestone, at				
•			stems, echinoids dark green, black vuggy porosity.				
			15% <u>Calcarenite</u> , 10% <u>Marl</u> , light k in part.			cy, silty	
	2120 - 2130		90% Limestone.		bove.	· ·	
•	2120 21%0		10% <u>Marl</u> .) .			
	2130 - 2140		90% <u>Limestone</u> . 10% <u>Marl</u> .	s as a	bove.		
· · ·	2140 - 2150		90% <u>Limestonė</u> . 10% <u>Marl</u> .) as a	bove.		
	2150 - 2160		90% <u>Limestone</u> . 10% <u>Marl</u> .)) as a	bove.		
	2160 - 2170		90% <u>Limestone</u> , as 10% <u>Marl</u> , predomi greenish grey var	nantly pa	le grey, ho noticed.	owever	
	2170 - 2180	• •	75% Limestone, do comprising abunda				
:			coal, glauconite. 25% <u>Marl</u> , predomi	nantly bl	uish grey,	more	
	· ·		argillaceous than	r previous	sampie, si	LLUY IN PART.	
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gangan sa sa s			•		•	· . · ·	

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26/5 SEACOMBE SOUTH I.

2180 - 2190	50% <u>Marl</u> , as above. 50% <u>Limestone</u> , dominan	tly fossiliferous.
2190 - 2200	75% <u>Marl</u> , as above. 25% <u>Limestone</u> .	
2200 - 2210	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2210 - 2220	90% <u>Marl</u> .) 10% <u>Limestone</u> .)	as above.
2220 - 2230	90% <u>Marl</u> .) 10% <u>Limestone</u> .)	as above.
2230 - 2240	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2240 - 2250	50% <u>Marl</u> .) 50% <u>Limestone</u> .)	as above with minor lumps of clay.
2250 - 2260	50% <u>Marl</u> .) 50% <u>Limestone</u> .)	as above with occasional soft, oozy clay.
2260 - 2270	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2270 - 2280	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above, with occasional dark brown limonitic fragments.
2280 - 2290	90% <u>Marl</u> .) 10% <u>Limestone</u> .)	as above with rare glauconite as infills of fossil fragments.
2290 - 2300	80% <u>Marl</u> .) 20% <u>Limestone</u> .)	as above with occasional specks of black coal, glauconite.
2300 - 2310	50% <u>Marl</u> .) 50% <u>Limestone</u> .)	as above with black coal specks and dark lithic inclusions.
2310 - 2320	50% Limestone, as abo	nt limonite stained chips
2320 - 2330	75% <u>Limestone</u>) 25% <u>Marl</u> .)	as above with <u>trace</u> of pale brown sandstone, very fine grained, well cemented, slightly calcareous matrix, with various amounts of carbonaceous inclusions. Abundant forams, glauconitic infills abundant.
2330 - 2340	90% <u>Limestone</u> .) 10% <u>Marl</u> .)	as above, with abundant indurated limestone, strongly calcareous cement.

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27/65 SEACOMBE SOUTH I.

2340 -	2350	$90\% \frac{\text{Limestone}}{\text{Marl.}}$) as above.
2350 -	2360	75% <u>Limestone</u> . 25% <u>Marl</u> .
2360 -	2370	$75\% \frac{\text{Limestone.}}{\text{Marl.}}$) as above.
2370 -	2380	50% <u>Marl</u> , grey, soft, silty in part. 50% <u>Limestone</u> , pale grey, white, colourless, dominantly fossiliferous, hard, massive, containing abundant coral stems and echinoids. No porosity. Occasional specks of black coal and green glauconite.
2380 -	2390	50% <u>Marl</u> , grey, soft, as above. 50% <u>Limestone</u> .
2390 -	2400	75% <u>Limestone</u> .) as above, dominantly 25% <u>Marl</u> .) fossiliferous.
2400 -	2410	$50\% \frac{Marl.}{Limestone.}$ as above.
2410 -	2420	75% <u>Limestone</u> , dominantly fossiliferous, brachiopods, coral stems, echinoids, pyritic crystals, glauconite infills of forams. Occasional veinlets of pyrite material. 25% <u>Marl</u> , as above.
2420 -	2430	80% <u>Limestone</u> , as above, 1% coal as inclusions, occasional grains of clear, subrounded quartz. 20% <u>Marl</u> , as above.
2430 -	2440	70% Limestone, as above, 1% coal as inclusions. 30% Marl, as above.
2440 -	2450	95% Limestone, as above, 1% coal as inclusions. 5% Marl, as above.
2450 -	2460	70% <u>Limestone</u> , as above, 1% coal as inclusions. 30% <u>Marl</u> , as above.
2460 -	2470	70% <u>Limestone</u> .) 30% <u>Marl</u> .) as above.
2470 -	2480	$\begin{array}{c} 75\% \\ \underline{\text{Limestone}} \\ 25\% \\ \underline{\text{Marl}} \end{array} \end{array} \right) \qquad \text{as above.}$
2480 -	2490	75% $\underline{\text{Limestone}}$.) as above.
2490 -	2500	$50\% \frac{\text{Limestone}}{\text{Marl}}$ as above.
2510 -	2520	75% <u>Limestone</u> , grey, colourless, predominantly fossiliferous, other variety includes a pale grey microcrystalline, compact, strongly calcareous.

25% Marl, grey, silty in part.

		28/65
	- 15 -	SEACOMBE SOUTH J.
2520 - 2530	75% <u>Limestone</u> . 25% <u>Marl</u> .) Trace brown, dark bro micromicaceous.	abundant pyrite as encrustations and linings of cavities. Occasional lumps of clay. wn siltstone, carbonaceous,
2530 - 2540	90% <u>Limestone</u> .) 10% <u>Marl</u> .)	as above with abundant pyrite, trace of dark brown siltstone, some reddish brown, colourless, subangular quartz. Some coal specks.
2540 - 2550	75% <u>Limestone</u> .) 25% <u>Marl</u> .)	as above, with very little pyrite, quartz and coal pieces.
2550 - 2560	50% <u>Limestone</u> .) 50% <u>Marl</u> .)	as above.
2560 - 2570	75% <u>Marl</u> . 25% <u>Limestone</u> .)	as above, with lumps of clay. Only traces of clear subangular quartz and black coal. Occasional pyritic fragments.
2570 - 2580	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2580 - 2590	90% <u>Marl</u> , bluish grey 10% <u>Limestone</u> , as abo	, oozy. ve.
2590 - 2600	90% <u>Marl</u> .) 10% <u>Limestone</u> .)	as above, no trace of quartz components.
2600 - 2610	90% <u>Marl</u> .) 10% <u>Limestone</u> .)	as above.
2610 - 2620	75% <u>Marl</u>) 25% <u>Limestone.</u>)	as above.
2620 - 2630	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	with occasional colourless cloudy quartz.
2630 - 2640	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2640 - 2650	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2650 - 2660	75% <u>Marl</u> .) 25% <u>Limestone</u> .)	as above.
2660 - 2670	90% <u>Marl</u> . 10% <u>Limestone</u>	as above with occasional carbonaceous flecks, quartz.
2670 - 2684	100% <u>Marl</u> , massive, s carbonaceous, calcare	lightly sandy, argillaceous, ous.

See description for Core No. 2.

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- 16 - SEACOMBE SOUTH I. 2684 - 2690 90% Marl, dark grey to grey, sticky, some clay lumps, occasionally sandy, calcareous, trace of quartz grains. 10% Limestone, some fossiliferous variety. 90% Marl. 2690 - 2700 as above. Occasional 10% Limestone. pyritic fragments. 75% Marl. 2700 - 2710 as above with trace 25% Limestone. carbonaceous streaks. 50% Marl. 50% Limestone. 2710 - 2720 as above, with trace of pyrite and carbonaceous flecks. 2720 - 2730 50% Marl. as above. 50% Limestone. 2730 - 2740 50% Marl. as above. 50% Limestone. 2740 - 2750 50% Limestone, as above, with abundant microcrystalline pyrite, occasional glauconite as inclusions within limestone matrix. 50% Marl, as above. Trace clear, subangular, angular quartz. Occasional forams and fossil fragments. 2750 - 2760 60% <u>Marl</u>. 40% <u>Limestone</u>. as above. 2760 - 2770 60% <u>Marl</u>. as above. 40% Limestone. 2770 - 2780 75% Marl. as above, marl as large 25% Limestone. lumps, occasional fossil fragments embedded in limestone matrix. 2780 - 2790 as above. Sample consists dominantly of clayey lumps. 90% Marl. 10% Limestone Occasional mudstone found as chips. 2790 - 2800 90% Marl, bluish grey to grey, lumpy, silty in part, calcareous. 10% <u>Limestone</u>, dominantly grey crystalline, occasionally fossiliferous (brachiopod remains) embedded in calcareous matrix. Trace of clear subangular quartz, pyrite grains and occasional carbonaceous streaks, glauconite as inclusions. Mudstone chips. 2800 - 2810 60% Marl, as above. 30% Limestone.

2810 - 2820

Silty. Trace pyrite. 50% Marl. 25% Limestone. 25% Mudstone. as above.

grey, strongly argillaceous,

calcareous, soft, slightly friable, grading to

10% Mudstone,

marl.

29/65

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30/65

SEACOMBE SOUTH I.

50% Marl. 25% Limestone. 2820 - 2830 as above, marl found as sticky lumps. 25% Mudstone. 2830 - 2840 50% Marl, as above, lumpy. 40% Mudstone, as chips, strongly argillaceous, calcareous. 10% Limestone, crystalline and fossiliferous. 2840 - 2850 50% Mudstone. as above, sample very 40% Marl. 10% Limestone. clayey. 2850 - 2860 50% Mudstone. 40% Mar1. as above. 10% Limestone. 60% <u>Marl</u>. 2860 - 2870 as above, with dominant 30% <u>Mudstone</u>. 10% <u>Limestone</u>. pyrite as veins and dendritic pattern on depositional interfaces. 75% Marl. 15% Mudstone. as above, sample very clayey with very little solids recovered after 2870 - 2880 10% Limestone. prolonged washing. 75% Marl. 15% Mudstone. 2880 - 2890 sample very clayey, abundant pyrite in the 10% Limestone. sample. 2890 - 2900 75% <u>Marl</u>. as above. Sample very 15% Mudstone. clayey - very little 10% Limestone. solids to be recovered. 2900 - 2910 70% Marl, blue-grey. 20% Mudstone, light green-grey to medium grey, pyritic, occasional fine grain quartz, calcareous, blocky. 10% Limestone, white to light grey, crystalline and fossiliferous, corals, forams. 2910 - 2920 70% Marl. 20% Mudstone. as above. 10% Limestone. 80% <u>Marl</u>. 10% <u>Mudstone</u>. 2920 - 2930 as above. 10% Limestone. 80% <u>Marl</u>. 10% <u>Mudstone</u>. 10% <u>Limestone</u>. 2930 - 2940 as above. 70% Marl. 2940 - 2950 25% Mudstone. as above. 5% Limestone. 70% Marl. 2950 - 2960 20% Mudstone. as above. 10% Limestone. 2960 - 2970 70% Marl. 20% Mudstone. as above. 10% Limestone.

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31/65 SEACOMBE SOUTH T.

•	2970 -	2980	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above, abundant pyrite and forams.
•	2980 -	2990	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
· .	2990 -	3000	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
	3000 -	3010	fine quartz grains. 10% <u>Limestone</u> , crystal.	ossiliferous. own to grey, pyritic, areous, occasional very line, fossiliferous, with rams, white to light grey.
	3010 -	3020	20% Mudstone.)	as above. y as lentils within the
	3020 -	3030	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
	3030 -	3040	Same as for interval 3	020 - 3030.
	3040 -	3050	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
	3050 -	3060	80% <u>Marl</u> .) 20% <u>Mudstone</u> .)	as above.
	3060 -	3070	70% <u>Marl.</u>) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
	3070 -	3080	70% <u>Marl.</u>) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
· · ·	3080 -	3090	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
3*	3090 -	3100	pyritic, glauconitic.	een to brown, calcareous, light grey, tan, crystalline.
•	3100 -	3110	70% <u>Marl.</u>) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.
•	3110 -	3120	70% <u>Marl</u> . 20% <u>Mudstone</u> . 10% <u>Limestone</u> , very fi quartz grains.	as above. ne to fine, subrounded

			- 19 -	SEACOMBE	SOUTH I.
	•				•
•	3120 - 3:	130	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above, t	race of coal.
	3130 - 33	140	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above, tr	race of coal.
· · · · ·	3140 - 3:	150	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
•	3150 - 33	160	70% <u>Marl</u> . 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
· · · · · · · · · · · · · · · · · · ·	3160 - 3:	170	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
	3170 - 3	180	70% <u>Mar1</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
	3180 - 3:	190	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	· · · · · · · · · · · · · · · · · · ·
	3190 - 3:	200	20% <u>Mudstone</u> , lig blocky, calcareou very fine to fine coal grains. 10% <u>Limestone</u> , wh	ey, very fossilife ht green, tan, bro s, pyritic, glauco quartz, trace of ite to tan, crysta undant corals and	own, massive, onitic, trace round, black alline, very
	3200 - 32	210	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
	3210 - 32	220	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
•	3220 - 3:	230	70% <u>Marl</u> . 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
:	3230 - 3:		70% <u>Mar1</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
	3240 - 3:	250	70% <u>Marl</u> .) 20% <u>Mudstone</u> .) 10% <u>Limestone</u> .)	as above.	
	3250 - 3:	260	moderately soft, pyritic, very cal 25% <u>Limestone</u> , pa grained, occasion calcilutite. Trace siltstone,	oft, as lumps. e green, greenish silty in part, str careous, also glau le grey to colour ally fossiliferous dark brown, brown Random quartz, clo	rongly aconitic. Less, fine s, approaching , calcitic,
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•				22.
				3365
			- 20 -	SEACOMBE SOUTH]
	3260 -	3270	50% <u>Marl</u> , as above. 25% <u>Mudstone</u> , often gr 25% <u>Limestone</u> (calcilu Abundant discrete grad glauconite grains, py	utite). ins of dark green
	3270 -	3280	50% <u>Marl</u> .) 25% <u>Mudstone</u> .) 25% <u>Calcilutite</u> .)	as above.
	3280 -	3290	50% <u>Marl</u> .) 25% <u>Mudstone</u> .) 25% <u>Calcilutite</u> .)	as above, with trace of brown siltstone.
	3290 -	3300	$\begin{array}{c} 60\% \ \underline{Marl.} \\ 25\% \ \underline{Mudstone.} \\ 15\% \ \underline{Calcilutite.} \end{array}$	as above, very clayey.
	3300 -	3310	60% <u>Marl</u> .) 25% <u>Mudstone</u> .) 15% <u>Calcilutite</u> .)	as above, abundant glauconite and pyrite grains.
	3310 -	3320	50% <u>Marl</u> .) 30% <u>Mudstone</u> .) 20% <u>Calcilutite</u> .)	as above.
	3320 -	3330	50% <u>Marl</u> .) 40% <u>Mudstone</u> .) 10% <u>Calcilutite</u> ./	as above.
	3330 -	3340	50% <u>Marl</u> .) 40% <u>Mudstone</u> .) 10% <u>Calcilutite</u> .)	as above.
	33 40 -	3350	50% <u>Marl</u>) 40% <u>Mudstone</u> .) 10% <u>Calcilutite</u> .)	as above.
	3350 -	3360	60% <u>Marl</u> .) 30% <u>Mudstone</u> .) 10% <u>Calcilutite</u> .)	as above.
	3360 -	3370	60% <u>Marl</u> . 30% <u>Mudstone</u> , greenish material. 10% <u>Calcilutite</u> .	n grey, pockets of calcareous
	3370 -	3380	75% <u>Marl</u> .) 20% <u>Mudstone</u> .) 5% <u>Calcilutite</u> .)	as above with occasional pyrite.
	3380 -	3390	75% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Calcilutite</u> .)	as above.
	3390 -	3400	75% <u>Marl</u> .) 20% <u>Mudstone</u> .) 5% <u>Calcilutite</u> .)	as above, with traces of clear quartz, subrounded, rounded, discrete grains of glauconite, pyrite.
	3400 -	3410	80% <u>Marl</u> .) 20% <u>Mudstone</u> .)	as above, sample very clayey.

	34/65
	-21- SEACOMBE SOUTH I
3140 - 3420	80% <u>Marl</u> .) as above, trace 20% <u>Mudstone</u> .) calcilutite.
3420 - 3430	80% <u>Marl</u> .) as above, trace 20% <u>Mudstone</u> .) calcilutite and abundant glauconite.
3430 - 3440	90% <u>Marl</u> .) as above, sample very clayej 10% <u>Mudstone</u> .) occasional small mudstone chips, soft, green,
	recovered from wash. Very glauconitic, abundant pyrite granules, often as replacement mineral or as
	infills of fossil remains. Trace of clear quartz, fine to medium grained,
	subrounded, rounded. Trace of calcilutite.
3440 - 3450	100% <u>Marl</u> , green to greenish grey. Soft, sticky, very little solids recovered from wash. Trace mudstone, calcilutite. Abundant glauconitic grains.
3450 - 3460	100% <u>Marl</u> , as above with trace of mudstone and calcilutite. With coarse grains of dark green glauconite.
3460 - 3470	100% Marl, as above, trace of dolomite(?)
3470 - 3480	100% <u>Marl</u> , as above, trace of mudstone, abundant glauconite.
3480 - 3490	100% Marl, as above, trace of dolomite(?)
3490 - 3500	100% <u>Marl</u> , as above. Occasionally fossiliferous, dominantly forams, silty in part, strongly calcareous. Glauconitic.
3500 - 3510	100% <u>Marl</u> , as above, glauconitic, abundant pyrite and rare forams.
3510 - 3520	95% <u>Marl</u> .) as above.
3520 - 3530	95% <u>Marl</u> , as above. 5% <u>Glauconite</u> , dark green, partly weathered. Trace dolomite.
3530 - 3540	95% <u>Marl</u> .) as above, trace dolomite. 5% <u>Glauconite</u> .) Rare small chips mudatone.
3540 - 3550	95% <u>Marl</u> .) as above, trace dolomite. 5% <u>Glauconite</u> .) Dolomite, tan, coloured.
3550 - 3560	90% <u>Marl</u> , as above. 10% <u>Glauconite</u> , as above, weathered.
3560 - 3570	90% <u>Marl</u> .) as above, abundant pyrite 10% <u>Glauconite</u> .) and trace of calcilutite, mudstone.

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SEACOMBE

35/65 SOUTH I

	3570 - 3580	80% <u>Marl</u> . 10% <u>Mudstone</u> . 5% <u>Calcilutite</u> . 5% <u>Glauconite</u> .		as above.
	3580 - 3590	75% <u>Marl</u> . 15% <u>Mudstone</u> . 10% <u>Calcilutite</u>) .)	Abundant glauconite and pyrite grains. Trace quartz grains, dolomite.
	3590 - 3600	75% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Calcilutite</u> .	}	as above. Trace quartz, dolomite, abundant glauconite.
	3600 - 3610	75% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Glauconite</u> .) }	as above.
	3610 - 3620	75% <u>Mar1</u> . 25% <u>Mudstone.</u>	}	abundant glauconite, pyrite, rare quartz, dolomite.
	3620 - 3630	75% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Calcilutite</u> .	}	as above.
	3630 - 3640	70% <u>Marl</u> . 15% <u>Mudstone</u> . 10% <u>Glauconite</u> . 5% <u>Dolomite</u> , mas)) ssive, 1	as above. Gas kicks. No fluorescence. brown, pale brown.
·	3640 - 3650	70% <u>Marl</u> . 15% <u>Mudstone</u> . 10% <u>Glauconite</u> , 5% <u>Dolomite</u> .	weathe:) Gas abundant,) pyrite, occasionally red.) fossiliferous. Gas) kicks. No fluor- escence.
	3650 - 3660	75% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Glauconite</u> .	}	Trace dolomite, pyrite, calcilutite, gas kicks. No fluorescence.
	3660 - 3670	75% <u>Marl</u> . 25% <u>Mudstone</u> .)	Abundant pyrite, glauconite. Gas kicks, no fluorescence.
	3670 - 3680	75% <u>Mar1</u> . 25% <u>Mudstone</u> .	}	Abundant pyrite, weathered glauconite, trace quartz, dolomite, gas kicks, no fluorescence.
	3680 - 3690	90% <u>Marl</u> . 10% <u>Mudstone</u> .))	as above.
	3690 - 3700	75% <u>Marl</u> . 25% <u>Mudstone</u> .)	as above, abundant glauconite, pyrite.
	3700 - 3710	25% <u>Sandstone</u> , to fine grained grades to silts <u>matrix</u> . Tight. colourless, sub	dark br , moder tone in Minor rounded	y, sticky, soft. own, very fine grained ately firm, friable, places. Strongly <u>pyritic</u> loose quartz, pale grey, , rounded, fine grained,
		glauconitic in 25% <u>Mudstone</u> , p		en, greenish grey,

argillaceous, soft, blocky, glauconitic, pyritic. No fluorescence.

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		· •	36/65
		- 23 -	SEACOMBE SOUTH I
	3710 - 3720	50% <u>Sandstone</u> . 25% <u>Marl</u> . 25% <u>Mudstone</u> .) as above with abundant) glauconite embedded in) sandstone matrix. <u>Very</u> <u>pvritic</u> . Abundant loose glauconite. Tight. No fluorescence.
		Trace siltston embedded in ma	e, pale grey, occasional quartz trix.
a	3720 - 3730	50% <u>Sandstone</u> . 25% <u>Marl</u> . 20% <u>Mudstone</u> . 5% <u>Siltstone</u> .) as above.
a da series de series	3730 - 3740	60% <u>Sandstone</u> . 20% <u>Marl</u> . 10% <u>Mudstone</u> . 10% <u>Siltstone</u> .) as above. Sandstone contains pyrite.
and the second se	3740 - 3750	75% <u>Sandstone</u> . 10% <u>Marl</u> . 10% <u>Siltstone</u> . 5% <u>Mudstone</u> .) as above.
	3750 - 3760	75% <u>Sandstone</u> . 10% <u>Marl</u> . 10% <u>Siltstone</u> . 5% <u>Mudstone</u> .)) as above, abundant loose) glauconitic grains.)
	3760 - 3770	75% <u>Sandstone</u> . 10% <u>Marl</u> . 10% <u>Siltstone</u> . 5% <u>Mudstone</u> .)) as before, abundant loose) pyritic grains, glauconite.)
	3770 - 3780	50% <u>Sandstone</u> . 35% <u>Coal</u> . 15% <u>Mudstone</u> . Coal black, dan lignitic.	rk brown, dull lustre, soft,
ą.	3780 - 3790	90% <u>Coal</u> , as al 10% <u>Sandstone</u> ,	as above.
	3790 - 3800	90% <u>Coal</u> , as at 10% <u>Sandstone</u> ,	oove. as above.
	3800 - 3810	90% <u>Sandstone</u> , sorted, subrour and clear quart 5% <u>Coal</u> , as abo 5% <u>Mudstone</u> . Trace siltstone	ove.
	3810 - 3820	95% <u>Sandstone</u> , siltstone. 5% <u>Coal</u> , as abov	as above. Trace mudstone and ve.
•	3820 - 3830	100% <u>Sandstone</u> , Trace coal, sil	as above. tstone and mudstone.
	3830 - 3840	90% <u>Sandstone</u> , 10% <u>Coal</u> .	as above. Trace of clay.

60% <u>Sandston</u>e, as above. 40% <u>Coal</u>, as above. Trace clay. 3850 - 3860 70% Sandstone, as above. $30\% \frac{\text{Coal}}{\text{Coal}}$, as above. Trace clay. 3860 - 3870 90% Sandstone, as above. 10% Coal, as above. Trace clay. 3870 - 3880 90% <u>Sandstone</u>, as above. 10% <u>Coal</u>, as above. Trace clay. 3880 - 3889

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3765 SEACOMBE SOUTHI

m		·				APPENDIX 3
, , ,	į	CORE	DESCRIPTI			Page 1 of 2 3/65 SEACOMBE SOUTH I.
*	Company:	WOODSI	DE OIL N.L.	Well	•	SEACOMBE SOUTH NO. 1
	Core No:	0ne		Formation	:	Gippsland Limestone.
<u>}</u> .	Interval :	2473'	- 2487'	Bit Type	:	Hughes/HF
	Recovery:	10'8"		Bit Size	:	$7\frac{7}{8}$ "
	Date :	8th No	vember, 1970.	Described [By:	A. Marimuthu
Corin	Rate Graphic	Shows 2 Porosity	Litholo	ogic Desca	ription	
				REOUS MU	<u>USTON</u>	grading to MARL.
			Grey to greenis	sh grey, n	assivo	e, blocky fracture,
		-	<u>soft, occasiona</u>	lly friab	le, ra	rely_fissile,
		2'		.,	5 1 5	citic, moderately to
		_				fossiliferous,
					,	lamellibranchs
			no fluorescence		-Sect:	on-generally tight,-
		r <u>-</u> 4'	<u>no ridorespecifice</u>	•	یہ اپنے میں بند کی پر پید کر	
			413" to 510" M	APL*		
			· ·		,bloc	ky, silty in part,
			<u>soft, stickv, s</u>	trongly fo	<u>ossili</u>	ferous comprising
	ш		dominantly of d	lendritic	corals	and minor skeletal
			remains. Occas	ionally r	laucor	<u>lite is found as</u>
		, Jul.			ures.	<u>Slightly</u>
		8'	carbonaceous.			<u> </u>
			510" to 1018"	CALCADEO		TSTONE grading to
		9'	MARL.	<u>0.0000000000</u>		<u>astese</u> graatne to
				o grev. ma	assive	with blocky
						clayev matrix,
			silty in part,	strongly a	<u>calcar</u>	cous, strongly
	This		<u>fossiliferous c</u>	omprising	brach	liopods, bryozoans,
	Section Of the	12				<u>ls have been</u>
	Core Was	ana arprai				<u>ourless crystalline</u>
	Lost	-13		<u>s section</u>	exhib	its no porosity, nil
			fluorescence.			5
			*Approximatoly			lost from this
						ing removed from
			the core barre		1113-1213	
		17 C				
			·			
				· · ·		
		CARGEN AND A				
				· · · · · · · · · · · · · · · · · · ·		
4d.,	the construction of the second	•	*************************************			na kan ana ana ana ana ana ana ana ana a

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i i 		c ade	reconst	CUL Carrent	I SCALOMBE SOUTH I.
· · ·					
~	Company:	WOODSIDE	OIL N.L.	Well :	SEACOMBE SOUTH NO. 1
	Core No:	₽wo	•	Formation :	Gippsland Limestone
	Interval :	2671' -	2685'	Bit Type :	Hughes/HF
	Recovery:	2'4"	• • • •	Bit Size :	78"
1	Date :	9th Nove	mber, 1970.	Described By:	A. Marimuthu
Corin	Rote Graph	and the second s	an a	ogic Descripti	on .
2671		-6	Top 2' MARL.		
					massive, blocky
		- 6	fracture, slig	ntly friable,	very strongly
73			-		, strongly carbonaceous
					ous with thin pyritic-
					onal dendritic type
					· · · · · · · · · · · · · · · · · · ·
25		<u>-</u> 4'.o″			hromatograph.
77		-6'0"			/•
					rare_black_carbonaceous
-				-	tly friable, strongly
				-	<u>No fossil remains.</u> wealed odour of fresh
73		8'o″	tar.	<u>i surrace rev</u>	entou ound of treot
				cescence.	
			No "gas kicks".		
8/		-10'0"			
				•	
	· · ·				
83		12'0"			
		7 (2) 62) - 11 - 1			
-		6111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
		- 14'0"			
85		- 14 0			
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APPENDIX 4

4%s Page 1 of 6. SEACOMBE SOUTH I

SIDEWALL CORES

The sidewall coring programme was designed to obtain 25 cores from the well in one run of the gun (CST).

In the first run it was found that the gun was not functioning properly because after shooting at 25 positions the recovery was 30 cores.

The second and third runs were designed to see if the gun was faulty or if it had been wired incorrectly. This problem was not fully resolved so it was decided to complete the coring programme with a different gun. Thus the fourth run was successful.

The details of the four runs are given below :-

<u>Run No</u> .	Bullots in gun:	Shots fired:	Cores Recovered:	Cores Accented:
1	30	25	30	2(undescribed below)
2	28	5	5	Nil
3	23	3	3	3
4	30	15	15	15

SEACOMBE SOUTH I.

Recovered $1\frac{1}{4}$ "

- 2 -

MARL grading in places to a siltstone.

Grey, soft, slightly friable, compact, sandy in part, strongly argillaceous, very strongly calcareous. This sample is impregnated with less glauconite grains than cores 1 and 2.

Core 4. 2800' Recovered 1"

2850'

Core 3.

MARL

Grey, moderately hard, compact, slightly friable, strongly argillaceous, very strongly calcareous, rarely sandy, slightly pyritic in places.

Recovered $\frac{3}{4}$ " 2744' Core 5.

MARL.

Greenish grey, moderately hard, compact, slightly friable, strongly argillaceous, strongly pyritic, slightly sandy in places, very strongly calcareous with occasional calcite (?) crystals disseminated throughout the sample.

Core 6. 2679'

MARL

Recovered $\frac{3}{4}$ "

Recovered $\frac{1}{2}$ "

Greenish grey, soft, very friable, strongly argillaceous, rarely pyritic, very strongly calcareous with prominent calcitic? bands distributed throughout the sample.

Core 7. 2675'

MARL grading to siltstone.

Dark grey, soft, very friable, strongly argillaceous, rarely sandy, together with prominent bands of pyrite. Very strongly calcareous.

Core 8. 2600' Recovered $1\frac{1}{2}$ "

MARL grading to siltstone

Greenish grey, compact, not easily friable, blocky fracture, strongly argillaceous, very strongly calcareous, rarely carbonaceous.

Core 9. 2518' Recovered 1"

MUDSTONE grading to marl.

Grey, compact, slightly friable, conchoidal fracture, occasional bands of calcareous material and rare lithic inclusions.

SEACOMBE SOUTH T.

- 3 -

Core 10 2450' Recovered $1\frac{1}{4}$ "

MUDSTONE grading to marl

Grey, compact, slightly friable together with prominent calcareous or dolomitic material. Rare lithics as inclusions.

Core 11 2400' Recovered 1"

MUDSTONE grading to marl

Brownish grey, slightly friable, strongly argillaceous, with occasional kaolinitic patches. Some pale grey calcareous aggregates are distributed throughout the sample together with lithics as inclusions.

Core 12 2350' Recovered $\frac{3}{4}$ "

MUDSTONE

Grey to brownish grey, slightly friable, strongly argillaceous with prominent dark green and green glauconite grains disseminated throughout the matrix together with rare pale grey calcareous aggregates.

Core 13 2300' Recovered $1\frac{1}{2}$ "

MUDSTONE, grading to marl.

Grey to brownish grey, slightly friable, strongly argillaceous, occasional calcareous aggregates together with discrete grains of dark green and green glauconite. Rarely pyritic.

Core 14 2250' Recovered $1\frac{1}{4}$ "

CALCARENITE grading to marl.

Bluish grey, moderately to poorly friable, slightly sandy in places, strongly argillaceous. occasionally carbonaceous together with abundant dark green and green coarse grained glauconite disseminated throughout the matrix.

Core 15 1500'

MARL

Recovered 12"

Dark grey, compact, conchoidal fracture, silty in part, occasionally carbonaceous, strongly calcareous together with prominent dark green and green, fine to medium grained glauconite distributed throughout the sample. RUN 2*

- 4 -

Core 🗴 🛕

Recovered $\frac{3}{4}$ "

SANDSTONE

Pale grey, comprising abundant pale grey to colourless, medium to fine grained, rare coarse grained quartz, subrounded to rounded, moderately to poorly sorted, poorly cemented, strongly carbonaceous in places. Good porosity, nil fluorescence.

SEACOMBE SOUTH I.

Core β β Recovered $1\frac{1}{4}$ "

SANDSTOME

Pale grey to pale brown comprising abundant pale grey to colourless, fine to very fine grained quartz, generally subrounded, moderate to well sorted, poorly cemented, strongly carbonaceous matrix. Good to fair porosity, no fluorescence.

Recovered $1\frac{1}{4}$ "

SANDSTONE

Pale grey to pale brown, comprising abundant pale grey to colourless, fine to very fine grained quartz, generally subrounded, moderate to well sorted, poorly consolidated, strongly carbonaceous matrix, often earthy, with prominent dark brown and black lignitic material distributed throughout the sample. Abundant dark green and green glauconite together with flakes of micaceous material are also disseminated throughout the core. Traces of kaolinitic matter are found in isolated pockets. Good porosity, nil fluorescence.

Recovered $1\frac{1}{2}$ "

SANDSTONE

Pale grey to grey, comprising abundant pale grey to colourless, very fine grained quartz, subrounded to rounded, well sorted, very slightly argillaceous with a strongly carbonaceous matrix together with occasional bands of dark brown to black lignitic material and dark green grains of glauconite. The sample is generally very crumbly. Good porosity, nil fluorescence.

Recovered 1"

SANDSTONE

Grey, comprising abundant pale grey to colourless very fine to fine grained subrounded to rounded quartz, well sorted, slightly argillaceous in places, with a strongly carbonaceous matrix. Dark brown and black lithic grains are fairly common. Sample generally is poorly consolidated. Good porosity, no fluorescence.

Core 8 C

Core S J

Core E E

4465 SEACOMBE SOUTH I.

adaren da

* A depth could not be given to these cores as it was not known which bullets and in what sequence they were fired.

- 5 -

SAMPLE RECOVERED FROM D.S.T. OPERATIONS

SANDSTONE

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Grey comprising abundant pale grey to colourless quartz, fine to very fine grained, subrounded to rounded, well sorted with prominent dark brown carbonaceous material and dark green and green lithics as inclusions, rarely micaceous. Good porosity.

APPENDIX 4

4 \$%s

SIDEWALL CORE DESCRIPTIONS SEALOMBE South I.

SEACOMBE SOUTH NO. 1

RUN 3

Core A. 3570' Recovered $1\frac{1}{4}$ ".

SANDSTONE

Dark grey to grey, comprising very fine to fine grained quartz, subrounded to rounded, well sorted. weakly kaolinitic, strongly carbonaceous. occasionally glauconitic. Good porosity, nil fluorescence.

Core B, 3565'

Recovered 14".

SANDSTONE

Dark brown to dark grey, comprising abundant pale brown, grey to colourless quartz, subrounded to rounded, moderately well sorted, weakly kaolinitic, soft, slightly friable, strongly micromicaceous, slightly argillaceous, with a strongly carbonaceous matrix, earthy, poorly consolidated. Good to fair porosity, no fluorescence.

Core C. 3560'

Recovered $1\frac{1}{4}$ "

SANDSTONE

Dark grey to dark brown comprising abundant pale grey to colourless quartz, subrounded to rounded, moderately well sorted, weakly kaolinitic, soft, slightly friable, strongly micromicaceous, slightly argillaceous with a strongly carbonaceous matrix. Prominent dark brown and black vitreous coal aggregates, earthy, poorly consolidated. Good to fair porosity.

Core	1.	3500'	Recovered	1 ."

MARL grading to calcilutite.

Greyish brown, compact, blocky fracture, slightly friable, strongly pyritic, occasionally glauconitic, and very strongly calcareous.

Core 2. 3450'

RUN 4

Recovered $1\frac{1}{2}$ "

MARL grading to calcilutite.

Dark grey, compact, slightly friable, strongly argillaceous, sandy in part, rarely pyritic, strongly glauconitic, very strongly calcareous.

52/65

CHEMICAL ANALYSES OF WATER SAMPLES

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- I. A series of water samples were collected before drilling in order to select a site to pump water for making mud.
 - (A) Samples 1439/70 and 1440/70 were collected in the vicinity of the well site.
 - (B) Sample A (No. 1612/70) was collected from Lake Reeve, approx. 250 yards southwest of the well site.
 - (C) Sample B (No. 1613/70) was collected from Lake Reeve, opposite the well site.
 - (D) Sample C (No. 1614/70) was collected from Lake Reeve, approx. 100 yards northeast of the well site.
 - (E) Sample D was badly contaminated hence an analysis was not attempted.
- II. After T.D. was reached, a drill stem test was conducted over the interval 3535' - 3690'.
 - (A) Sample 1870/70 and 1871/70 were collected from the first and second of three drill collars.
 - (B) Samples were also collected from pipe stands and these are tabulated as follows:-

Stand	No.	6	-	Sample	No.	1873/70
**	11	13	-	11	**	1874/70
**	**	17	-	ft	11	1875/70
11	**	20	-	71	11	1876/70
11	11	23	-	"	11	1877/70
**	**	25	-	11	"	1878/70

APPENDIX 7

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ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 630321

AN. LS. 4/9

JCK/SW

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53/65 MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002 23/9/70

	Report	on Sample No.143	9/70	
		₩ ₩ .		
	Sample	: Lake Wa	ter	
	•	: Parish Seacomb	e South	
	•	Woodside Oil C		
		151 Flinders S		
Particulars:	••••	Melbourne.		
Bore			. .	•
Rlant				ovolvcia
Sample	A sai	npre or water w	as received for	anarysis.
Date	It wa	as labelled "Se	acombe South No	. 1.,
1	Sample ((feet)	collected from	Lake Reeve".	
Aquiter level	•	•		
	(feet)			•
1	(feet)			
Aquifer type	(1001)			
Yield (gph)				
Test type				
Bore cased to	(feet)			
Position				
Owner	:			
1				
Address				·
Remarks Label No.	\			
Results:				
Total solids		Parts per million		•
in solution		22,130		
Chloride	(CI)	11,685		
Carbonate [']	(C0 ₃)	22		
	-	1.67		
Bicarbonate Sulabata	(HCO ₃) (SO .)	2128		
Sulphate	(SO ₄)		4	
Nitrate	(NO ₃)	Nil	1. 10-1	du.
Calcium	(Ca) (Ma)	550	Khn le-	Chemist
Magnesium Sodium	(Mg) (Na)	755	Guit	The in st
Potassium	(Nd) (K)	6450 22 7	week	
Iron-Total	(Fe)	۲ <u>۲</u>		
Iron-Soluble	(Fe)	0.2		
Silicate	(SiO ₃)	3		
Total hardnes		4,481		
		49401		
рН		8.4		× .
	nductivity at 25°C	31,112	micromhos/cm.	
Specific Resis	stance at ²¹ °C	35	ohmcm.	

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AN. LS. 4/9 JCK/SW

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MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002 23/9/70

5

S

	Report	on Sample No.14	40/70
		U .W.R. S.	
	Sample	: Soak W	ater
40 · ·	Locality	: Parish Seacom	be South
	Sender	Woodside Oi	1 Co.
Dantinulan	•••••		s Street
Particulars:		Melbourne	
Bore			
Rlant		A sample of wa	ater was received for
Sample	analys		
Date		It was labell	ed "Seacombe South No. 1,
Depth (fee	t) Collec	ted from Soak	
Aquifer level (fee			
Static level (fee		,	
Drawdown (fee	. .		· · ·
Aquifer\type			
Yield (gph)	_		
Test type	•		
Bore cased to (fee	et)		
Position	· ·		
Owner	1		
Address			
Remarks		x •	
Label No.			
Results:	•	Parts per million	
Total solids			
in solution		2569	
Chloride	(CI)	1346	
Carbonate '	(CO ₃)	6	
Bicarbonate	(HCO ₃)	168	
Sulphate	(SO ₄)	94	
Nitrate	(NO ₃)	Nil	
Calcium	(Ca)	128	form lonendy
Magnesium	(Mg)	71	l'attain t
Sodium	(Na)	700	Chief Chimist
Potassium	(K)	14	
Iron-Total	(Fe)	=-	
Iron-Soluble	(Fe)	0.2	
Silicate	(SiO ₃)	5	
Total hardness (a	s CaCO ₃)	609	
рН		8 • 3	
Electrical Conduc	tivity at 25°C.	4375	micromhos/cm.
Specific Resistand		247	ohmcm.

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 63 0821

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GMG:MS

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An. HIM, RM, 5/10



SS/6S MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE

MELBOURNE, VIC. 3002

7th January, 1970

RECEIVED	Report on		No. 1612, U.W.R.S. 770			
• • • • • • • • • • • • • • • • • • •	Samala		Lake Wate	-		
1 JAN 1971	Sample :	Parish	Seacombe			
ns'd						
D	Jenuer		151 Fline	Oil N.L., lers Street	 9	
Particulars:			•	South No.1		
Bore						
Plant			A			
Sample Date	•	-				
			910			
 Depth (feet) Aquifer level (feet) 						
Static level (feet)						
Drawdown (feet)			••••			
Aquifer type						
Yield (gph)						
Test type			*			
Bore cased to (feet)						
Position			Lake Reev	ves	·	
Owner			8 .54			
Address			***			
Remarks		•	-	1		
Label No.			4 40			
Results:		Parts pe	er million	me/litr	e	
Total solids in solution		24,	480			
Chloride (C	1)	11,	580	326.67		
	.0 ₃)		Nil			
•	CO ₃)	. •	17 0'	2.79		
	0 ₄)	2,0	034	42.35		
	0 ₃)]	Nil	8999 gaar		
	a)	, 1	509	25.40		
	lg)		701	57.66		;
	a)	6,		275.62		
Potassium (k			239	6.11		
	e)					
	[:] e) iO ₃)		0;1 4	1956 6450 2010 1967		
Total hardness (as C		4,	154			
			8.4			
pH	·	.		<i>.</i>	x	• · ·
Electrical Conductiv	1. at 250C	41,	(50 m	nicromhos/cm.		

TELEPHONE: 630321

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GMG:MS An. HM, RM, 5/10

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MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

56/65

7th January,1971

				- d'ampre	No. 161	5/10		
BEACHUED			•		U.W.R.S. 77	708		
RECEIVED		Samp	le :		Lake Wat	ter		
1 1 JAN 1971		Loca	ility :	Parish	Seacombe	e South		
Ans'd		Send	er		151 Flin	e Oil N.L.		
. <u>P</u> /	articulars:		••••••		MELBOURI	•		
	Bore				Seacombe	e South No.1		
x 	Plant							
•	Sample		•		В			
	Date			•				
`	Depth	(feet)			610			
	Aquifer level	(feet)			alanga			
1 1	Static level	(feet)		<u>,</u>				•
•	Drawdown	(feet)						
	Aquifer type				5 744			
	Yield (gph)							
•	Test type	•			e			
	Bore cased to	(feet)						
	Position				Lake Ree	eves		
	Owner	i						
	Address							
	Remarks	•			-			
	Label No.							
R	esults:		•	Parts p	er million	me/litr	е	
	Total solids	~			•			
. .	in solution	Summation	L 	2,23	0			
•	Chloride	(CI)		11,66	D ,	328,93	i	
	Carbonate /	(CO ₃)		Ni	1	~ _		
	Bicarbonate	(HCO ₃)		1 9	0 '	3.11		
	Sulphate	(SO ₄)		2,24	0	46.64		
	Nitrate	(NO ₃)		Ni	1			
	Calcium	(Ca)		50		25.40		· -
	Magnesium	(Mg)		74		61.12		:
	Sodium	(Na)		6,71		291.93		`
	Potassium	(K)		24	4	6.24	•	
	Iron-Total	(Fe)			-	there was		
	Iron-Soluble	(Fe) (S:O_)		• (0.2			
·	Silicate	(SiO ₃)			1		•	
: · · · · · · · · · · · · · · · · · · ·	Total hardnes	ss (as CaCO ₃)	•	4,32'	7			
, .	pН			8	3•4			×
	•	nductivity at 2	5°C.	40,60	C	micromhos/cm. `		10
		stance at ^{20,9}		28	3	ohmcm.	1.5	' Chemisi

TELEPHONE: 630321

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An. HM, RM, 5/10



S765 MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

7th January, 1971

``			Report	on Sample	No.161	4/70		
RECEI	VED				U.W.R.S.7	709		
•			Sample	:	Lake W	ater		
1 1 JAN	1971		Locality	: Parish	Seacom	be South		
Ans'd			Sender		151 Fl	de Oil N.L. inders Street	9	
. <u>F</u>	Particulars:		******		MELBOU			
	Bore				Seacomb	be South No.1		
•	Plant					•		
•	Sample				C .			
	Date			T	-			
~	Depth	(feet)			-			
	Aquifer level	• •			-			
	Static level	(feet)			-			
	Drawdown	(feet)			. 🗕 👘			
	Aquifer type	(,			-	•		
	Yield (gph)				-			
•	Test type							
	Bore cased to	(feet)						
·	Position	(1661)			Lake Re	eves	•	
	Owner	i.			-			
:					_			
	Address							
	Remarks							
•	Label No.							
I	<u>Results:</u>			Parts p	er million	me/litre	9	•
•								
•	Total solids in solution	Summat	ion	23	,800			
• 		Summat (Cl)	tion		,800 ,700	358.27		
• 	in solution					358 . 27 		
• •	in solution Chloride	(CI)	.)		,700	358.27 4.18		
•	in solution Chloride Carbonate , Bicarbonate	(CI) (CO ₃ (HCC))	12	,700 Nil			
• • •	in solution Chloride Carbonate ,	(CI) (CO ₃ (HCC (SO ₄)) ₃)	12	,700 Nil 255	 4•18		
• 	in solution Chloride Carbonate Bicarbonate Sulphate	(CI) (CO ₃ (HCC (SO ₄ (NO ₃)) ₃)	12	,700 Nil 255 ,174	 4•18		
• • •	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca))) ₃)	12	,700 Nil 255 ,174 Nil	 4.18 4.26		-
•	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate	(CI) (CO ₃ (HCC (SO ₄ (NO ₃)) ₃)	12	,700 Nil 255 ,174 Nil 463	 4.18 4.26 23.10	 	
•	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg))) ₃)	12	,700 Nil 255 ,174 Nil 463 813	4.18 4.26 23.10 66.88	:	
•	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na))) ₃)	12	,700 Nil 255 ,174 Nil 463 813 7,105	4.18 4.26 23.10 66.88 309.07	:	· ·
	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium Potassium	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na) (K) (Fe)))3))	12	,700 Nil 255 ,174 Nil 463 813 7,105	4.18 4.26 23.10 66.88 309.07	:	
	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium Potassium Iron-Total	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na) (K) (Fe)))3))	12	700 Nil 255 174 Nil 463 813 7,105 247	4.18 4.26 23.10 66.88 309.07	:	· ·
	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium Potassium Iron-Total Iron-Soluble	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na) (K) (Fe) (Fe) (SiO	3)) ⁽⁾	12	700 Nil 255 174 Nil 463 813 7,105 247	4.18 4.26 23.10 66.88 309.07	:	
	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium Potassium Iron-Total Iron-Soluble Silicate Total hardnes	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na) (K) (Fe) (Fe) (SiO	3)) ⁽⁾	12	,700 Nil 255 ,174 Nil 463 813 7,105 247 - 0.1 1	4.18 4.26 23.10 66.88 309.07	:	
-	in solution Chloride Carbonate Bicarbonate Sulphate Nitrate Calcium Magnesium Sodium Potassium Iron-Total Iron-Soluble Silicate	(CI) (CO ₃ (HCC (SO ₄ (NO ₃ (Ca) (Mg) (Na) (K) (Fe) (Fe) (SiO)) ₃)) 3) O ₃)	12 2 4	,700 Nil 255 ,174 Nil 463 813 7,105 247 - 0.1 1 ,499	4.18 4.26 23.10 66.88 309.07	:	

TELEPHONE: 630321 GMG:MS An. MC, DL, 2/12



MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

15th December, 1970

CEC 1978 Apat.....

Report on Sample No.1870/70Sample: Bore WaterLocality: Seacombe SouthSender: Woodside Oil N.L.,
151 Flinders Street,
MELBOURNE.

Particulars:

Samples	: Water
Oil Bore	: Seacombe South No.1
Drill Stem Test	: No.1
Interval	: 3535'-3690'
Recovered	: 270' mud 2945' of slightly gas, cut,water
Formation	: Sand 284' above tester
Remarks	: 1 of 3 Drill Collar

Results:

Parts per million m

me/litre

.

Total solids in s (Summ	solution ation)	3250	
Chloride	(Cl)	876	24.7
Carbonate	(CO ₃)	56	1.9
Bicarbonate	(HCO ₃)	1204	19.7
Sulphate	(50 ₄)	Nil	Nil
Nitrate	(NO_3)	Nil	Nil
Calcium	(Ca)	22	1.1
Magnesium 🗸	(Mg)	9.0	0.7
Sodium	(Na)	1002	43.6
Potassium	(K)	36	. 0.9
Iron-Total	(Fe)		· ••••
Iron-Soluble	(Fe)	0.8	
Silicate	(SiO ₃)	38	
Total hardness (a	is CaCO ₃)	91	

pН

8.8

Electrical Conductivity at 25°C.4441 micromhos/cm. Specific Resistance at 21.0°C. 244 ohmcm.

ally Chief Chemist

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MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

15th December, 1970

PECEIVED 18 DEC 1970

Anst.....

Report on Sample No.1871/70

Sample	:	Bore Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Sample: WaterOil Bore: Seacombe South No.1Drill Stem Test: No.1Interval: 3535'-3690'Recovered: 270' mud 2945' of slightly
gas, cut, waterFormation: Sand 284' above testerRemarks: 2 of 3 Drill Collar

Results:

Total solids in solution

pН

Electrical Conductivity at 25°C. Specific Resistance at 21.0°C.

Parts per million

2637

8.6

4488 micromhos/cm. 241 ohmcm.

1 Chief Chemist

TELEPHONE: 630321 GMG:MS

An. MC, DL, 2/12

TECEIVED

MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

15th December, 1970

Report on	Sample	No.1873/70
Sample	:	Bore Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Samples	:	Waters
Oil Bore	:	Seacombe South No.1
Drill Stem Test	:	No.1
Interval	:	35351-36901
Recovered	:	270' mud 2945' of slightly gas, cut, water
Formation	:	Sand 284' above tester
Remarks	:	Stand No.6

Results:

Total solids in solution

pН

Electrical Conductivity at 25°C. Specific Resistance at 21.0°C.

Parts per million

4084 9.4 6822 micromhos/cm. 159 ohmcm.

Chief Chemist

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 630321 GMG:MS An. MC, DL, 2/12



MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

15th December, 1970

DECEIVED

Ans'd

Report on Sample No.1874/70

Sample	•	Bore Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Samples: WatersOil Bore: Seacombe South No.1Drill Stem Test: No.1Interval: 3535'-3690'Recovered: 270' mud 2945' of slightly
gas, cut, waterFormation: Sand 284' above testerRemarks: Stand No.13

4341

8.5

7227

150

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Results:

Total solids in solution

pH Electrical Conductivity at 25°C. Specific Resistance at 21.0°C.

Parts per million

ohmcm.

micromhos/cm.

Chemist

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 630321 GMG:MS An. MC,DL, 2/12



MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

14th December, 1970

PROSINED

CC DEC 1970

Report on Sample No.1875/70 Sample : Water

The second se		
Locality	:	Seacombe South
Sender	\$	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Samples	: Waters
Oil Bore	: Seacombe South No.1
Drill Stem Test	: No.1
Interval	: 3535'-3690'
Recovered	: 270' mud 2945' of slightly gas, cut, water
Formation	: Sand 284' above tester
Remarks	: Stand No.17

<u>Results:</u>	Parts per million
Total solids in solution	2821
pH	8.8
Electrical Conductivity at 25°C. Specific Resistance at 21.0°C.	4791 micromhos/cm. 226 ohmcm.

23 Chief Chemist

63/65

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST

TELEPHONE: 630321

GMG:MS

An. MC, DL, 2/12

MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

14th December, 1970

DEVED

16 DEC 1970

Ansid

Report on Sample No.1876/70

Sample	:	Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Samples	: Waters
Oil Bore	: Seacombe South No.1
Drill Stem Test	: No.1
Interval	: 3535'-3690'
Recovered	: 270' mud 2945' of slightly gas, cut, water.
Formation	: Sand 284' above tester
Remarks	: Stand No.20

Results:

Total solids in solution

Parts per million

2681

pH	8.8
Electrical Conductivity at 25°C.	4560 micromhos/cm.
Specific Resistance at 21.0°C.	237 ohmcm.

Chief Chemist

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 630321 GMG:MS An. MC, DL, 2/12



MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

14th December, 1970

DECEIVED

DEC 1970

A190......

Report on	Sample	No.1877/70
Sample	:	Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Samples	: Waters
Oil Bore	: Seacombe South No.1
Drill Stem Test	: No.1
Interval	: 3535'-3690'
Recovered	: 270' mud 2945' of slightly gas, cut, water.
Formation	: Sand 284' above tester
Remarks	: Stand No.23

Parts per million
2637
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8.6
4488 micromhos/cm.
241 ohmcm.
-

in a har and Chief Chemist

64/5

ADDRESS ALL COMMUNICATIONS CHIEF CHEMIST TELEPHONE: 630321 GMG :MS

An. MC, DL, 2/12



MINES DEPARTMENT CHEMICAL BRANCH 5 PARLIAMENT PLACE MELBOURNE, VIC. 3002

15th December, 1970

DECEIVED

10 DEC 1970

Report on Sample No.1878/70

Sample	:	Water
Locality	:	Seacombe South
Sender	:	Woodside Oil N.L., 151 Flinders Street, MELBOURNE.

Particulars:

Sample	:	Waters
Oil Bore	:	Seacombe South No.1
Drill Stem Test	:	No.1
Interval	:	3535'-3690'
Recovered	:	270' mud, 2945' of slightly gas, cut, water.
Formation	:	Sand 284' above tester
Remarks	:	Stand No.25

Results:

Parts per million me/litre

Total solids in	solution	3365	
Chloride	(Cl)	944	26.6
Carbonate	(CO ₃)	103	3.4
Bicarbonate	(HCO ₃)	1180	19.3
Sulphate	(s0 ₄)	Nil	-
Nitrate	(NO_3^{\dagger})	Nil	-
Calcium	(Ca)	18.0	0.9
Magnesium	(Mg)	8.0	0.6
Sodium	(Na)	1071	46.6
Potassium	(K)	39	1.0
Iron-Total	(Fe)		· _
Iron-Soluble	(Fe)	1.7	0.1
Silicate	(SiO ₃)	43	-
Total hardness ((as CaCO ₃)	78	
pH	بر نینداز کاری این این از این	8.8	land period period period period period and period

Electrical Conductivity at 25°C. Specific Resistance at 21.6°C. 4685 micromhos/cm. 231 ohmcm.

Chief Chemist

FLUI	DSAMP	LE DAT	A	Date 11-1	L3-70	Ticket Number	456084		egal	1
ampler Pressure		P.S.I.0	G. at Surface	Kind OFF	N HOLE	Hallibur	ton SALE AU	Ις ΦΑΤΤΑ	Legal Location Sec Twp Rng.	
ecovery: Cu. Ft.	Gas			of Job UHI	N HOLE	District	SALE AU	JOINALIA	Rng	
cc. Oil		•		Tester MR.	BURGESS	Witness	MR. MAN	JN	Ē	
cc. Wat					5010100	vv tiness				Ose
cc. Mud			1	Drilling Contractor RICH	TER BAWD	EN		DR		Lease Name
lot. Liq ravity	uid cc					T & HOLE	DATA			ne
as/Oil Ratio				Formation Teste	d Lat	robe valle		neasureme	ht	
				Elevation	5'			Ft.		
7	RESIST		HLORIDE ONTENT	Not Productive I	nterval110			Ft.		
			1	All Depths Meas	sured FromKe	lly Bushing				
ecovery Water	@	₽ °F	1500 ppm	Total Depth		<u> 10° Plug Da</u>	ck T.D.	<u>3690'</u> Ft.		
ecovery Mud	@	₽ °F.		Main Hole/Casi		3/4''	01.11			
ecovery Mud Filti	rate@	◎ °F		Drill Collar Leng		/ 'I.D.	22"			1
ud Pit Sample	-	₽ °F.	1	Drill Pipe Lengt	250	51' I.D.	3.826"			Well No.
lud Pit Sample Fi		₽ °F		Packer Depth(s)_	0.51	29'-3535'		Ft.		
ud Weight	9.	.7vis	<u>66 _{cp} </u>	Depth Tester Va	lve35.	15'		Ft.		
TYPE	AMOUNT		Depth Back		Surface Choke 1.(Bot	tom oke7511			
ushion		Ft	. Pres. Valve		Choke 1.0		oke/J			Test No.
	_	. could							Field Area	Z
covered 280	Fee	et of mud						Mea.	8 0	ſ
ecovered 2945	F ee	+ Austor-c	lightly e	andy and ga	e cut			r. Fr		
ecovered 2945	Fee	torwaler-s	Singhtiy S	anuy anu ga				From		
ecovered	Fee	t of						Tes	PEP	
								er	Η	
ecovered	Fee	t of						Valv	-72	
ecovered	Fee	t of						Tester Valve		
ecovered ecovered		t of						Valve		1
ecovered	Fee	t of								lestec
ecovered	Fee	t of	ite flow w	ith a good	blow deci	ceasing ove	r a peri			l ested int
ecovered emarks Open	Fee ed tool fo	rtof or 42 minu						Lod		i ested intervo
ecovered emarks Open	Fee	rtof or 42 minu		ith a good ol for 30 π				Lod		i ested interval
ecovered emarks Open of 15 min	Fee ed tool fo utes to no	tof or 42 minu othing.	Closed to					Lod		i ested interval
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ecovered emarks Open of 15 min	Fee ed tool fo utes to no	tof or 42 minu othing.	Closed to					Lod	2	i ested interval
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S:

	456084		. <u></u>	20
	0. D.	I. D.	LENGTH	DEPTH
-	5.75"	2.75"	12.00'	
	45"	3.826"	3251'	
	• 2	21/2	267'	
•••••••••••••••••••••••••••••••••••••••				
Assembly				
	5.00"	.09	0.00	
	5.00"	.75"	60.21"	351
	·····			
	5,00"	3.00"	48.37"	3516
	5.00"	1.00"	39,46"	
	5 001	1 00"	28 35"	
	<u>J.UU</u>	<u> </u>		
	7 3/4"	1.75"	75.00"	3529
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	8.00"	<u> 1.75" </u>	75.00"	353
	5.00"	2.37"	32'	
ing Case				
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ing Case	5.00"	2.37"	48.71'	3680
	be	$ \begin{array}{c} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$0.0.$ 1.0. LENCTH 5.75^{11} 2.75^{11} 12.00^{11} $4\frac{1}{2}$ 3.826^{11} 3251^{11} $4\frac{1}{2}$ $2\frac{1}{2}$ 267^{11} Assembly 4.87^{11} 2.58^{11} 23.80^{1} 5.00^{11} $.69^{11}$ 56.08^{11} 5.00^{11} $.75^{11}$ 60.21^{11} 5.00^{11} 3.00^{11} 48.37^{11} 5.00^{11} 1.00^{11} 39.46^{11} 5.00^{11} 1.00^{11} 28.35^{11} 5.00^{11} 1.00^{11} 28.35^{11} 5.00^{11} 1.00^{11} 28.35^{11} 5.00^{11} 1.75^{11} 75.00^{11} 8.00^{11} 1.75^{11} 75.00^{11} 8.00^{11} 1.75^{11} 75.00^{11} $6\frac{1}{2}$ $2\frac{1}{2}$ 119^{1} 10^{11} 1.75^{11} 119^{1} 10^{11} 1.22^{11} 119^{1} 10^{11} 1.75^{11} 10^{11} 10^{11} 1.75^{11} 10^{11} 10^{11}

······

NOMENCLATURE

b	= Approximate Radius of Investigation	ŕ
\mathbf{b}_1	= Approximate Radius of Investigation (Net Pay Zone h)Feet	ł
D.R	— Damage Ratio	•
El	= Elevation	ł
GD	= B.T. Gauge Depth (From Surface Reference)	ł
h	= Interval Tested	ł
h,	= Net Pay Thickness	ł
К	= Permeabilitymd	
Κı	= Permeability (From Net Pay Zone h)md	
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)psi/	cycle
OF,	— Maximum Indicated Flow RateMCF	F/D
OF ₂	= Minimum Indicated Flow RateMCF	F/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max MCI	F/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min MCF	F/D
Ps	= Extrapolated Static PressurePsig	ļ.
P _F	= Final Flow PressurePsig	j .
P .,	= Potentiometric Surface (Fresh Water *)	ł
Q	= Average Adjusted Production Rate During Testbbls	s/day
Qı	= Theoretical Production w/Damage Removedbbls	s/day
Q ,	— Measured Gas Production Rate	F/D
R	= Corrected Recoverybbls	5
r "	= Radius of Well Bore	ł
t	= Flow Time	utes
t.	= Total Flow Time	utes
Т	= Temperature Rankine°R	
Z	= Compressibility Factor	-
μ	= Viscosity Gas or LiquidCP	
Log	— Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

PE906291

This is an enclosure indicator page. The enclosure PE906291 is enclosed within the container PE902798 at this location in this document.

The enclosure PE	906	5291 has the following characteristics:		
ITEM_BARCODE	=	PE906291		
CONTAINER_BARCODE = PE902798				
NAME	=	FIT Photograph Graphs		
BASIN	=	GIPPSLAND		
PERMIT	=	PEP72		
TYPE	=	WELL		
SUBTYPE	=	DIAGRAM		
DESCRIPTION	=	Photograph Graphs of Formation Interval		
		Tests for Seacombe South-1		
REMARKS	=	Black and white (negative) photograph		
DATE_CREATED	=	13/11/70		
DATE_RECEIVED	=			
W_NO	=	W613		
WELL_NAME	=	SEACOMBE SOUTH-1		
CONTRACTOR	=	HALLIBURTON SERVICES		
CLIENT_OP_CO	=	WOODSIDE OIL COMPANY		

(Inserted by DNRE - Vic Govt Mines Dept)

PE601459

This is an enclosure indicator page. The enclosure PE601459 is enclosed within the container PE902798 at this location in this document.

The enclosure PE601459 has the following characteristics: ITEM_BARCODE = PE601459 CONTAINER_BARCODE = PE902798 ; NAME = Composite Well Log BASIN = GIPPSLAND PERMIT = PEP/72TYPE = WELL SUBTYPE = COMPOSITE_LOG DESCRIPTION = Composite Well Log (enclosure from WCR) for Seacombe South-1 REMARKS = $DATE_CREATED = 15/11/70$ DATE_RECEIVED = $W_NO = W613$ WELL_NAME = Seacombe South-1 CONTRACTOR = Woodside Oil NL CLIENT_OP_CO = Woodside Oil NL (Inserted by DNRE - Vic Govt Mines Dept)

PE601460

This is an enclosure indicator page. The enclosure PE601460 is enclosed within the container PE902798 at this location in this document.

The enclosure PE601460 has the following characteristics: ITEM_BARCODE = PE601460 CONTAINER_BARCODE = PE902798 NAME = Synthetic Seismogram BASIN = GIPPSLAND PERMIT = PEP/72TYPE = WELL SUBTYPE = SYNTH_SEISMOGRAM DESCRIPTION = Synthetic Seismogram (enclosure from WCR) for Seacombe South-1 REMARKS = $DATE_CREATED = 31/12/70$ DATE_RECEIVED = $W_NO = W613$ WELL_NAME = Seacombe South-1 CONTRACTOR = Woodside Oil NL CLIENT_OP_CO = Woodside Oil NL

(Inserted by DNRE - Vic Govt Mines Dept)