WELLINGTON PARK NO. 2 WELL

COMPLETION REPORT

by

Woodside Oil N.L.

June 1970

2nd Copy.

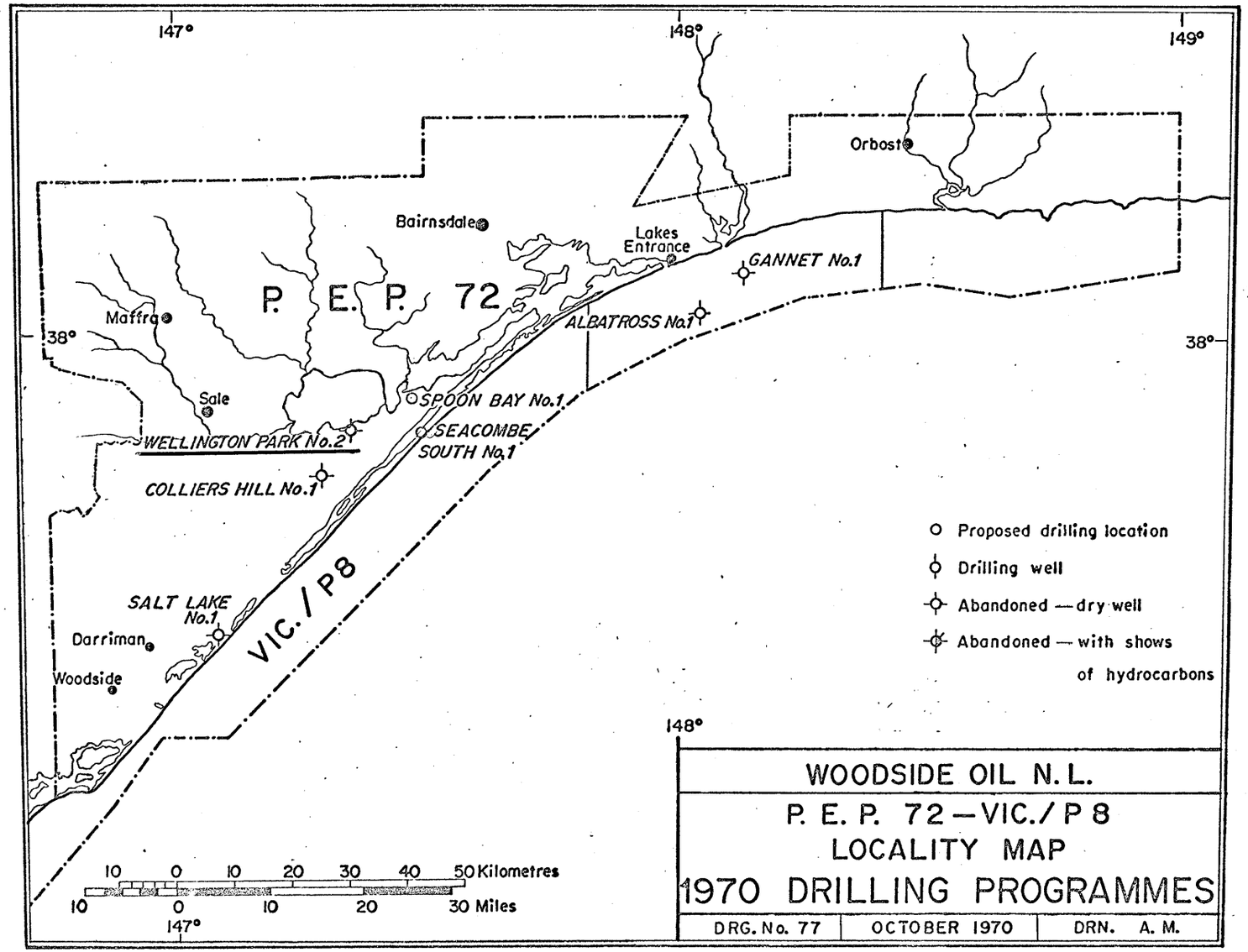
WELLINGTON PARK NO. 2 WELL

COMPLETION REPORT

by

Woodside Oil N.L.

June 1970


147°
148°
149°
38°
Orbost
Bairnsdale
Lakes Entrance
GANNET No.1
P. E. P. 72
Maffra
ALBATROSS No.1
Sale
SPOON BAY No.1
SEACOMBE SOUTH No.1
WELLINGTON PARK No.2
COLLIERS HILL No.1
SALT LAKE No.1
Darriman
Woodside
VIC./P8
Proposed drilling location
Drilling well
Abandoned — dry well
Abandoned — with shows of hydrocarbons
10 0 10 20 30 40 50 Kilometres
10 0 10 20 30 Miles
WOODSIDE OIL N.L.
P. E. P. 72 — VIC./P 8
LOCALITY MAP
1970 DRILLING PROGRAMMES
DRG. No. 77
OCTOBER 1970
DRN. A. M.

WELLINGTON PARK NO. 2 WELL

Contents

Figures

Enclosures

Appendices

WELLINGTON PARK NO. 2

SUMMARY

Wellington Park No. 2 well was spudded on 16th March, 1970, and reached a total depth of 4127 feet on 1st April, 1970. The well encountered the following sequence:

	Well Depth	
Post Gippsland Limestone sediments	0 - 635'	
Gippsland Limestone	635 - 2014'	
Lakes Entrance Formation	2014 - 2356'	
Latrobe Valley Coal Measures	2356 - 3585'	
Strzelecki Group	3585 - 4127'	(TD)

No oil or gas was encountered during drilling except for very minor dull staining and fluorescence in dolomitic sandstone at the base of the Lakes Entrance Formation. The well was plugged and abandoned.

During drilling one drill-stem was attempted over the interval 2335 to 2374 feet. The test was unsuccessful as the packed failed to seat.

A series of sidewall cores were taken to assist in the lithological interpretation of the well section and for possible palynological examination.

1. GENERAL DATA

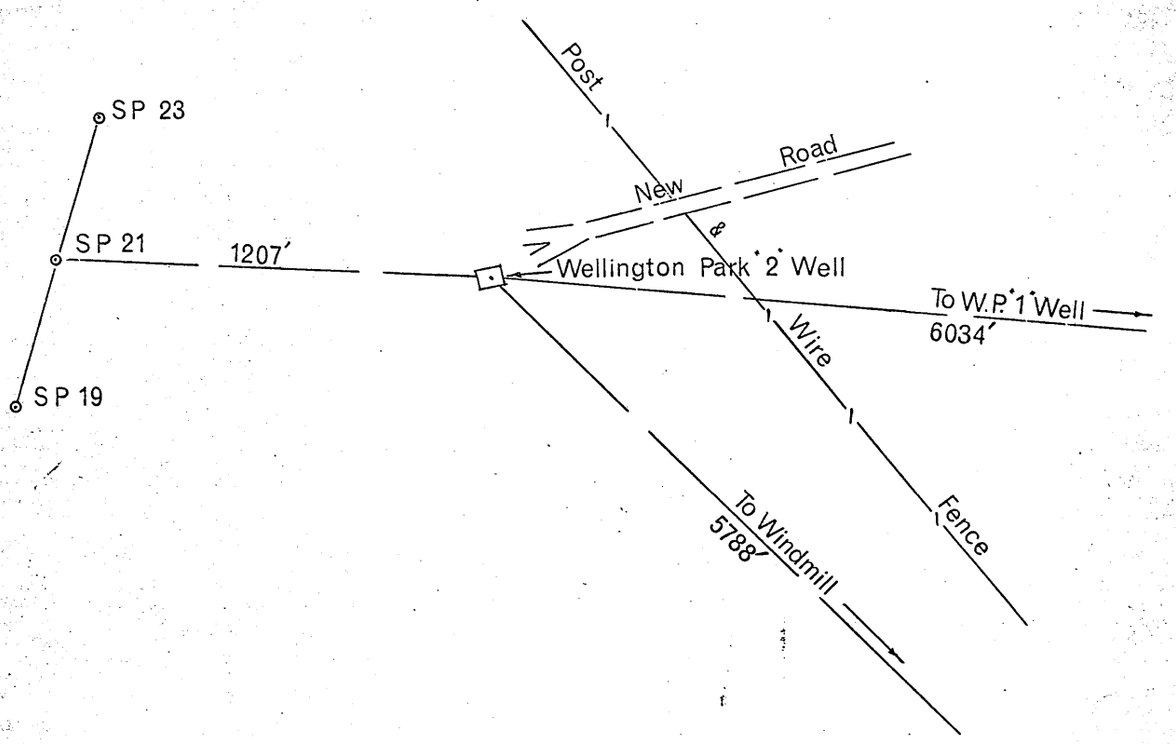
(A)	Well name and number:	Wellington Park No.2
(B)	Location: (Figures 1 & 2)	Latitude: 38° 08' 08" S Longitude: 147° 20' 55" E Datum: Australian Geodetic Datum Parish: Dulungalong See Appendix 1.
(C)	Names of Tenement Holders:	Woodside Oil N.L. (Operator) Australian Oil & Gas Corp.Ltd., Continental Oil Co. of Aust.Ltd., B.O.C. of Australia Ltd., Planet Exploration Co. Pty..Ltd.,
(D)	Petroleum Tenement:	Petroleum Exploration Permit No. 72 issued by the State of Victoria.
(E)	Total Depth:	4127 feet.
(F)	Date drilling began:	16th March, 1970.
(G)	Date drilling ended:	1st April, 1970.
(H)	Date well completed:	3rd April, 1970.
(I)	Date rig released:	7th April, 1970.
(J)	Drilling time to T.D.:	17 days.
(K)	Elevation:	Ground level: 4.95 feet a.s.l. Rotary Table: 16.68 feet a.s.l. Kelly Bushing: 18.01 feet a.s.l. Datum: Williamstown Datum
(L)	Status:	Plugged and abandoned.

Figure 1.

WOODSIDE OIL N.L.

GIPPSLAND OIL RIG LOCATION SKETCH.

LOCATION:- WELLINGTON PARK '2' WELL



GEOGRAPHICALS:- LATITUDE 38°08'08" LONGITUDE 147°20'55"

AMG Coordinates (Metres) A Zone 55 N 5,779,064.40 E 530,542.59

REDUCED LEVELS:- Ground Level 4.95
Rotor Table 16.68
Kelly Bushing 18.01

LEVEL DATUM:- Williamstown

CADASTRAL DESCRIPTION:- Crown Allotment 23 Sec. B
Parish of Dulungalong
County of Buln Buln

Surveyed By	J.A.S.	Approved	
Calculations	J.A.S.	Date	2/4/70
Drawn	J.A.S.	Drawing No.	112/1

ENGINEERING SURVEYS (AUSTRALIA) PTY. LIMITED
166 - 168 Albert Road, South Melbourne.

PE906605

This is an enclosure indicator page.
The enclosure PE906605 is enclosed within the container PE905915 at this location in this document.

The enclosure PE906605 has the following characteristics:

ITEM_BARCODE	= PE906605
CONTAINER_BARCODE	= PE905915
NAME	= Feature Survey Map
BASIN	= GIPPSLAND BASIN
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MAP
DESCRIPTION	= Feature Survey Map (figure 2 from WCR) for Wellington Park-2
REMARKS	=
DATE_CREATED	= 2/04/70
DATE_RECEIVED	= 17/03/86
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	= WOODSIDE OIL NL
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

2. DRILLING DATA

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

(b) Drilling Plant:

Make: Brewster

Type: N4

Rated capacity with $3\frac{1}{2}$" drill pipe: 7500'
Rated capacity with $4\frac{1}{2}$" drill pipe: 6000'

Motors: G.M. 6/71

(c) Mast:

Make: Lic. C. Moore

Type: Cantilever

Capacity: 386,000

(d) Pumps - Two:

Make: Oilwell

Type: P214

Size: $7\frac{1}{4}$ x 14

Motors: G.M. 6/71

(e) Blowout preventer equipment:

(i) Make: Cameron

Size: 12"

Series: Series 900

(ii) Make: Regan 10"

Series: Series 900

(f) Hole sizes and depths:

KB	- 30'	26"
30'	- 240'	$17\frac{1}{2}$"
240'	- 1805'	$12\frac{1}{4}$"
1805'	- 4127'	$8\frac{3}{4}$"

(g) Casing and Cementing Details:

Size	20"	$13\frac{3}{8}$"	$9\frac{5}{8}$"
Weight	Conductor	48 lbs.	36 lbs.
Grade		H40	J55
Range	-	R2	R2
Setting Depth	KB-30'	230'	1804'
Type Collar	Welded	S.T.C.	S.T.C.
Depth Collar	-	Nil	1774'
Type Shoe	-	Float Shoe	Float Shoe
Cement Plug	-	Top Plug	Bottom & Top Plug
Depth Shoe		230	1804
Centralizers		Nil	Nil
Quantity Cement Premix	20 bags	227	350 40 bbls. Mix water $2\frac{1}{2}$% Zeogel. 150 Bags Neat Cement around shoe
Cemented to:		Surface	Cement cut mud return 300'
Method used	Poured from Surface	Halliburton Cement Truck	Halliburton Cement Truck

(i) Drilling fluid:

(i) Type - Salt water - Zeogel and Saltgel, Lignosulphnate system of drilling fluid used throughout the well.

(ii) Treatment: Unical, Milcon, caustic soda, and zeogel were used to treat the mud.

(iii) Mud material and chemical consumption:

Zeogel	558 x 50 lbs.	Saxs.
Supercol	310 x 50 lbs.	Saxs.
Unical	205 x 50 lbs.	Saxs.
Caustic	3640 lbs.	
Cellucol	1661 lbs.	
Soda Ash	280 lbs.	
Barytes	100 x 112	Saxs
Distillate	2811 gals.	

(iv) Average Weight Analysis:

Week	Depth Ft.	Weight lbs./U.S. gal.	Visc. Secs/ 946 cc.	W.L. c.c.	F.C. ins.	pH.
1	1805	9.7	45	20+	3/32+	9.5
2	2780	9.5	54	12	3/3	9.9
3	3864	9.9	60	6.7	2/32	9.6

(j) Water Supply:

LOCAL SWAMP WATER - with 24,000 p.p.m. chloride. (Appendix 2) Water was pumped from the large swamp located between this well and the previously drilled Wellington Park No.1 Well.

(k) Perforations and Shooting: Nil

(l) Plug back and cementation jobs:

Abandonment plugs were set in the well:-
13' - 63'
1750' - 1850'
2250' - 2350'
3650' - 3750'

(m) Side-tracking hole: Nil.

(n) Deviation:

96	$\frac{1}{2}^{o}$	1362	$\frac{1}{2}^{o}$
185	$\frac{1}{2}^{o}$	1460	$\frac{1}{4}^{o}$
240	$\frac{3}{4}^{o}$	1580	$\frac{3}{4}^{o}$
345	1^{o}	1670	1^{o}
466	1^{o}	2163	$1\frac{1}{4}^{o}$
576	$1\frac{1}{8}^{o}$	2300	$1\frac{1}{4}^{o}$
669	1^{o}	2840	$1\frac{1}{2}^{o}$
788	1^{o}	3090	$1\frac{1}{2}^{o}$
880	1^{o}	3570	$1\frac{3}{4}^{o}$
1131	$\frac{3}{4}^{o}$	3870	$\frac{3}{4}^{o}$
1252	$\frac{3}{4}^{o}$	4127	$1\frac{1}{2}^{o}$

(O) Fishing Operations

One fishing operation was necessary during the drilling of this well.

The 12¼" hole was drilled to a depth of 1805 feet where it was intended to circulate the hole, run a wiper trip, log the hole, and run 9⅝" casing.

After circulating the hole for 2 hours the wiper trip began and it was during this wiper trip, at a depth of 1625 feet, that the hole appeared to have bridged. Circulation of the mud was started and the bit was washed and worked through tight spots up the hole to a depth of 1128 feet where it stuck. An attempt to free the bit was made by spotting distillate and working the drill pipe, but without success.

The next stage of this fishing operation was an attempt to jar the bit free. For this operation the drill pipe was backed off, with the help of Schlumberger string shot service, at the top of the first single of drill pipe about the drill collars. This left a fish in the hole made up of one joint of 4½" drill pipe, six 8" drill collars, one 12¼" stabilizer and the 12¼" bit.

After backing off the hole was cleaned and the mud conditioned before engaging the fish with Tristate's special drill collar spear assembly and Bowen jars. Five and a half hours of jarring did not free the fish. The fish was disengaged so as to use a washover string.

This washover string consisted of nine joints of 9" R-2 alloy steel washover pipe and Tristate's special drill collar spear attachment. The fish was washed over for 214 feet to the top of the stabilizer. While milling the stabilizer the fish became loose and dropped to the bottom of the hole.

The hole was then cleaned and the top of the fish located at 1556 feet before Tristate's special drill collar spear assembly and jars were run. This equipment successfully engaged and removed the fish.

3. LOGGING AND TESTING

(A) Ditch cuttings

Representative samples were collected at the shale shaker every 30 feet from 240' to 990'. From 990' to 4127' samples were taken every 10 feet. These samples were washed, dried and examined. Sample descriptions are given in Appendix 3.

(B) Coring

No conventional cores were cut, but 17 sidewall cores were attempted and 16 recovered.

Details of these cores are given in Appendix 4.

(C) Electrical and other logs

Schlumberger Seaco Inco. ran the following logs:-

(1) Induction Electrical log.

Run 1: 232' - 1802'
Run 2: 1802' - 4124'

(2) Borehole Compensated Sonic/Gamma Ray Log

Run 1: 232' - 1792'
Run 2: 1802' - 4124'

(3) Continuous Dipmeter Survey

Run 1: 1802' - 4126'

(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 232 feet to total depth.

(F) Testing

One drill stem test was attempted over the interval 2335 feet to 2374 feet. This test was a misrun because the packer seat failed immediately the tool was opened. Details are given in Appendix 5.

(G) Velocity Survey

A velocity survey was not conducted.

REGIONAL GEOLOGY

An outline of the regional geology of that part of the Gippsland Basin in which the Wellington Park No. 2 well was drilled is given in the Colliers Hill Well Completion Report on page 8.

STRATIGRAPHY

The sequence found in the Wellington Park No. 2 well was as follows:-

Age	Formation	Depth Top
U. Pliocene - Recent	Post Jemmy's Point	0'
L. Pliocene - U. Miocene	Jemmy's Point & Tambo River	325'
M. Miocene - L. Miocene	Gippsland Limestone	635'
Oligocene	Lakes Entrance	2014'
Eocene	Latrobe Valley Coal Measures	2356'
L. Cretaceous	Strzelecki Group	3585'
	Total Depth	4127'

The recognition of the rock units given in the Stratigraphic Table is based on sidewall cores, cuttings and wire-line log characters. These characters were correlated with the Wellington Park No. 1 well and other wells drilled in the area. The ages assigned to the rock units are those generally accepted for these units in the Gippsland Basin. (Hocking 1965 and Jenkin 1968).

Post Jemmy's Point Formation (0' - 325')

Samples and logs are available for the bottom 100 feet of this interval. The samples collected consisted of loose, coarse to very coarse quartz sand with some coal. This coal suggests that at least some of the Boisdale Beds were encountered.

Jemmy's Point and Tambo River Formation (325' - 635')

These units consist of marine sediments of Lower Pliocene to Upper Miocene age in the Gippsland Basin. The top of this unit was selected at the first appearance of marine fossils in the well. No attempt was made to divide this unit into its 2 components.

The cuttings and wire-line log characters have been used to divide this section into the following lithological units:-

325' - 440'	Fossiliferous sandstone made up of coarse quartz and lithic grains.
440' - 474'	Siltstone, speckled, medium and light grey, soft and friable, sandy and fossiliferous.
474' - 570'	Sandstone, pale grey, very fine to fine grained, quartzose with kaolinized feldspars and lithic grains, fossiliferous and tight.
570' - 635'	Marly limestone, grey, sandy, silty, fossiliferous

Gippsland Limestone (635' - 2014')

The top of the Gippsland limestone has been selected at the first appearance of calcarenite in the cutttings together with detailed correlation of the sonic logs between this well and the previously drilled Wellington Park No. 1 well.

The lithology of this unit consists of calcarenite, marls, and limestones. These lithologies grade into each other in places as well as being interbedded. The unit has been divided into four units:-

635' - 742'	Calcarenite, grey, marly, sandy, silty, lithic and fossiliferous.
742' - 1522'	Marl, grey, light grey, blue and brown grey, moderately soft to firm, silty, sandy and fossiliferous. Minor interbedded limestone and marl occur.
1522' - 1885'	Calcarenite, medium to light grey, massive, moderately soft to firm, silty, sandy and fossiliferous. Grades to limestone and marl. Occasionally a quartz pebble is present.
1885' - 2014'	Clayey marl, light to medium grey, moderately soft, silty.

Lakes Entrance Formation (2014' - 2356')

The marl of the Lakes Entrance Formation differs from the marl of the overlying Gippsland Limestone by being more clayey. This lithological difference is not seen in the cuttings, except rarely; but is sufficient to give a small change in electrical log profile and this change has been used to select the top of this formation. This change is not so pronounced as the prominent "break" which occurs within the Lakes Entrance Formation at a depth of 2177'

The Lakes Entrance Formation has been subdivided into an upper marly unit and a lower sandy unit (Hocking and Taylor, 1964).

The marly unit contains two lithologies, an upper marl and a lower calcareous mudstone:-

2014' - 2177'	Marl, medium grey and light grey to green grey, soft, silty, clayey and glauconitic.
2177' - 2340'	Calcareous Mudstone, light medium grey and green grey, soft, silty, glauconitic and sandy towards the base, grades into glauconitic sandstone.

A thin dolomite bed is taken to mark the top of the 'sandy unit' (Hocking 1965). The dolomite is seen in cuttings and as a sharp peak on the resistivity curves. In the Wellington Park No. 2 well it is five feet thick:-

2340' - 2345' Dolomite, fine grained, arenaceous.

Below the dolomite bed is 10 feet of glauconitic sandstone

2345' - 2355' Glauconitic Sandstone, very fine grained.

LATROBE VALLEY COAL MEASURES (2356' - 3585')

This unit, consisting of sand, silt, clay and coal represents the first non-marine sediments encountered in the well below 325 feet. The contact of this unit with the overlying Lakes Entrance Formation is not a sand-on-sand contact as in the previously drilled Wellington Park No. 1 well, but it is a sand-on-coal contact; the sand being the basal glauconitic sand of the Lakes Entrance Formation (as seen in sidewall core from 2355 feet) and the coal being a coal from the top coal seam of the Latrobe Valley Coal Measures in this area (as seen in sidewall core from 2383 feet.)

2356' - 3585' Coal, Sandstone, Siltstone, Clay and Shale.

Coal, brown, lignitic, soft, occasionally silty and shaly.
Sandstone, unconsolidated, medium to granule size grains, with minor grey to brown cherty lithics, subangular to subrounded, no matrix except for fine pyritic dusting, rare calcite, dolomite.
Siltstone, Clay, and Shale, all dark brown, soft, lignitic and tending to grade to brown coal.

Strzelecki Group (3585' - 4127' T.D.)

The top of the Strzelecki Group has been selected from the Induction Electrical log, Gamma Ray log and cuttings. The generally reduced resistivity values and increased gamma ray values indicate a change of lithology and a study of the cuttings show a change of lithology to feldspathic sandstones, mudstones and siltstone which are characteristic of the Strzelecki Group which is regarded as economic basement in this part of the Gippsland Basin. Correlation to Wellington Park No. 1 well confirms this interpretation.

RESULTS OBTAINED FROM DRILLING

The study of the results obtained from drilling are considered under three headings.

1. "H" to "K" interval.
2. Correlation to Wellington Park No. 1.
3. Hydrocarbons.

1. "H" to "K" Interval

Before the drilling of Wellington Park No. 2 well the seismic survey results indicated two horizons. The upper horizon ("H") was considered to represent the top of the Latrobe Valley Coal Measures and the lower horizon ("K) was regarded as the top of the first coal seam. Between these two horizons sand was thought to be present, as occurred in Wellington Park No. 1 well.

The section encountered at Wellington Park No. 2 well was almost identical to that of Wellington Park No. 1 well with one important exception. Wellington Park No. 2 did not have a sand above the first coal.

A velocity survey was not run in Wellington Park No. 2 well; thus it is difficult to identify accurately the seismic horizons on the well. However, by analogy with Colliers Hill No. 1 well and inspection of the sonic log it would appear possible for the "H" horizon to represent a depth of 2177 feet and the "K" horizon to represent a depth of 2356 feet.

2. Correlation to Wellington Park No. 1 well

The correlation between the two wells drilled on the Wellington Park structure is illustrated as Enclosure 2. This demonstrates that Wellington Park No. 2 well was drilled higher on the structure than Wellington Park No. 1 well and so adequately tested the structure for any hydrocarbon accumulation.

3. Hydrocarbons

No hydrocarbons were encountered in the well apart from a slight amount of fluorescence in the basal tight sands of the Lakes Entrance Formation. This represents a trace of residual hydrocarbon which is occasionally encountered in Gippsland.

BIBLIOGRAPHY

Esso Exploration Australia Inc. 1966. Esso Gippsland Shelf No. 1 well.

Petrol Search Subs. Act Pub. 76:74 pp.

Hocking J.B. 1965. Characteristics of the Tertiary Formation of Southern and South-Eastern Gippsland.

Geol. Surv. Vict. (unpub. Report).

Hocking J.B. & Taylor D.J. 1964. Initial Marine Transgression in the Gippsland Basin, Victoria.

A.P.E.A. Journal for 1964: 125-132

Jenkin J.J. 1968. The Geomorphology and Upper Cainozoic Geology of South-East Gippsland, Victoria.

Geol. Surv. Vict. Memoir 27:147 pp.

Richards K.A. & Hopkins B.M. 1969. Exploration in the Gippsland, Bass and Otway Basins Australia. (unpub.)

Wallis W.E., 1967, Offshore Petroleum Exploration Gippsland and Bass Basin - South East Asia.

Proc. 7th Wld. Petrol. Congr. 2:783-791

Weeks L.G., & Hopkins B.M. 1967. Geology and Exploration of Bass Strait Basins, Australia.

Amer. Assoc. Petrol. Geol. Bull. 51(5):742-760

Woodside (Lakes Entrance) Oil Company N.L. 1966 Wellington Park No. 1 Well.

Petrol. Search Subs. Act Pub. 71: 9 pp.

WELL LOCATION

The well location was surveyed by Engineering Surveys (Australia) Pty. Ltd. of South Melbourne. At the same time the Wellington Park No. 2 location was tied in to Wellington Park No. 1 well and seismic surveys in the area as well as other features. The results of this work is seen on figures 1 and 2.

The co-ordinates for the well are based on the Australian Geodetic Datum and not the Sydney Observatory Datum.

On the Schlumberger logs are the preliminary co-ordinates based on the Sydney Observatory Datum.

Appendix 2

RECEIVED
21 MAY 1970
Ans'd .....

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630321

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

GMG:MS
An. PM, 25/2

19th May, 1970

Report on Sample No. 281/70
U.W.R.S.

Sample : Mud make up water
Locality : ~~Parish~~ Gippsland
Sender ..... Woodside Oil N.L.
151 Flinders Street,
MELBOURNE.
Att. Mr. A.Marimuthu

Particulars:

~~Bore~~	
Plant	Mud make up water
Sample	–
Date	24.2.70
Depth (feet)	–
Aquifer level (feet)	–
Static level (feet)	–
Drawdown (feet)	–
Aquifer type	–
Yield (gph)	–
Test type	–
Bore cased to (feet)	–
Position	Wellington Park No.2, Gippsland
Owner	–
Address	–
Remarks	–
Label No.	–

Results:

		Parts per million
Total solids in solution		49,708
Chloride	(Cl)	24,510
Carbonate	(CO_3)	Nil
Bicarbonate	(HCO_3)	Nil
Sulphate	(SO_4)	4,680
Nitrate	(NO_3)	Nil
Calcium	(Ca)	764
Magnesium	(Mg)	1,870
Sodium	(Na)	13,680
Potassium	(K)	432
Iron-Total	(Fe)	4.9
Iron-Soluble	(Fe)	1.2
Silicate	(SiO_3)	Nil
Total hardness (as $CaCO_3$)		9,605

pH		4.1
Electrical Conductivity at 25°C.	60,871	micromhos/cm.
Specific Resistance at 21 °C.	17	ohmcm.

Chief Chemist
Mines Department

WOODSIDE OIL N.L.

WELLINGTON PARK No.2

Depth Interval	%	Lithologic Description	Porosity	Remarks
240-270'	100	SAND - loose, coarse to very coarse-grained and pebbly, sub-rounded, clear, milky quartz, grey, green-grey and brown quartzitic grains, trace biotite. Trace pyrite cement. No shows.	Excellent.	Water wet.
270-300	95	SAND - loose, coarse to very coarse-grained quartz, sub-angular to subrounded and poorly sorted, as above. Abundant biotite (some chloritized).	Excellent.	
	5	COAL - soft, lignitic, dull, shaly.		
300-330	75	SAND - loose, coarse quartz, as above.		
	20	LIMESTONE - fossil fragments, light brown, moderately hard.	Excellent.	
	5	COAL - as above, pyritic.		
330-360	70	SAND - as above, pebbly, with abundant cherty quartzite grains.	Excellent.	
	30	LIMESTONE - calcarenite, as above.		
		Trace COAL, as above.		
360-390	85	SAND - medium to coarse to very coarse-grained, but not as pebbly as above, and with abundant yellow quartz. Otherwise as above.		Less pebbly, more yellow.
	15	LIMESTONE - calcarenite, as above.		
390-420	70	SAND - as above, yellowish, but also pebbly and poorly sorted. Pyritic.		
	15	Fossil fragments - as above, light brown.		
	15	CLAY - grey, silty, washes out of samples.		
420-450	20	SAND - as above, loose, coarse quartz and chert, quartzite, some phyllite and schist fragments.	Excellent.	
	20	SILTSTONE - medium and light grey speckled, soft, friable, sandy and grading to very fine-grained sandstone. Apparently forms matrix for much of the fossil material.		Section change at about 440 feet to very fine-grained sandstone.
	60	Fossil fragments - light brown, as above.		

Depth Interval	%	Lithologic Description	Porosity	Remarks
450-480'	80	SANDSTONE - light to medium grey, very fine to fine-grained and silty, moderately firm, friable, consists of quartz, white kaolinized feldspars, green and grey cherty lithics, and black mafic minerals and fragments (volcanic?) with a grey clay cement. Tight. No shows.	Tight.	
	20	LIMESTONE - as above.		
480-510	85	SANDSTONE - fine-grained, tight, speckled, as above, strongly calcareous.	Tight.	
	10	- quartz and chert fragments, medium to coarse grains, partly ferruginised.		
	5	Fossil fragments.		
510-540	80	SANDSTONE - pale grey, generally unconsolidated, medium to coarse-grained aggregates. Abundant cloudy to milky white quartz grains, sub-rounded to rounded, poorly sorted, fair to poor porosity. Strongly calcareous. Abundant dark green to black lithic inclusions.		
	20	Fossil fragments - very fragmentary, corals and gastropods mainly.		
540-570	60	SANDSTONE - pale grey, colourless, rare cloudy to slightly yellow, rounded to subrounded quartz grains, poorly sorted, kaolinized in part, variably ferruginous, strongly calcareous, lithic inclusions, clay admixtures, poor porosity.		
	40	Fossil content - comprised of coral remains, DITRUPA worm casts, gastropods, molluscs and Echinoderms.		
570-600	50	CALCARENITE - white, tight, occasional mafic grains, often containing coral materail.		
	10	LIMESTONE - white, massive.		
	40	Fossil fragments - mainly corralline.		
600-630	5	SANDSTONE - very fine-grained, speckled with lithic, fragments, tight.		
	60	LIMESTONE - sandy, white to pale grey, medium-grained, high percentage of fossil content, tight.		
	35	Fossil fragments - DITRUPA and coral fragments.		
630-660	70	LIMESTONE - coralline, to some extent, skeletal limestone, abundant fossil fragments (Lamellibranches and Echinoderms)		
	30	CALCARENITE - clayey in part, also marly.		

Depth Interval	%	Lithologic Description
682 feet		TRACE OF CRYSTALLINE LIMESTONE - RARE LARGE CHIPS EVIDENT. PROBABLE TOP OF GIPPSLAND LIMESTONE.
660-690	10	Crystalline LIMESTONE - massive, white, colourless to pale grey, hard.
	70	Skeletal and coralline LIMESTONE - intergranular porosity.
	20	CALCARENITE - marly in part, with clay admixtures.
690-720	80	CALCARENITE - pale grey, colourless, often massive, hard, vuggy porosity--good to fair.
	20	CLAY-MARL - bluish-grey, strongly argillaceous, soft, plastic, silty in part. Fossil fragments - random spicules.
720-750	80	CALCARENITE - as above, but grey to bluish-grey. Abundant fossil fragments.
	20	CLAY-MARL - as above.
750-780	80	MARL - bluish-grey, soft, silty in part, clayey in part, fossiliferous, forams.
	20	CALCARENITE - as above.
780-810	90	MARL - as above, as bluish-grey ooze.
	10	CALCARENITE - as above, but could be cavings.
810-840	50	MARL - grey, unconsolidated, clayey, with fine calcareous fragments--often as shell material.
	30	CALCARENITE - white, tight, high percentage of coral-like material, fine-grained.
	20	LIMESTONE - white, massive.
840-870	90	MARL - medium grey, weak, fine-grained, with silty, clayey matrix, occasional glauconite grains.
	5	CALCARENITE - white, tight, as above.
	5	Fossil fragments - mainly coral.
870-900	80	MARL - pale grey, moderately firm, occasional glauconitic grains.
	20	Fossil fragments - corals and forams.
	Tr.	COAL.
900-930	90	MARL - pale grey, firm, fine-grained, with frequent small coal fragments and occasional glauconite. Reacts moderately strong with acid.
	10	Fossil fragments - mainly coralline.
930-960	90	MARL - as above, pale grey, moderately firm, without coal flecks, clayey, occasional glauconite.
	5	LIMESTONE - mostly from narrow veins withic the marl.
	5	Fossil fragments - mainly coralline.
960-990	90	MARL - pale grey, firm with occasional glauconite, rare coal, with some limestone veinlets.
	10	LIMESTONE - (from veins) and fossil fragments (mainly coral).

Depth Interval	%	Lithologic Description
990-1000	80	MARL - as above, varies from weak to firm.
	10	LIMESTONE - as above.
	10	Fossil fragments - as above.
1000-010	70	MARL - medium and pale grey, firm, silty, glauconitic, slightly carbonaceous, calcareous.
	15	LIMESTONE - white, finely crystalline, hard, brittle, apparently in lenses in MARL.
	15	Fossil fragments - shells, bryzoa, corals.
1010-020	80	MARL - as above, pale grey, firm, silty.
	10	LIMESTONE - as above, white, fine-grained.
	10	Fossil fragments - as above.
1020-030	90	MARL - glauconitic, sandy and silty, carbonaceous, as above.
	5	LIMESTONE - as above.
	5	Fossil fragments - as above, forams, corals, bryzoa.
1030-040	70	MARL - light to medium grey, firm, blocky, friable, silty and sandy, and grading to calcareous siltstone. Glauconitic, carbonaceous, as above.
	30	LIMESTONE - light brown, light grey, white, fine crystalline, sandy, silty, fossiliferous and grades to marl.
	Tr.	Fossil fragments - as above.
1040-050	80	MARL - light to medium grey, as above. Much washes out of samples.
	20	LIMESTONE - as above.
1050-060	90	MARL - as above, light brown-grey, carbonaceous and slightly glauconitic.
	10	LIMESTONE - as above, finely crystalline and silty and fossiliferous.
1060-070	90	MARL - silty, sandy, carbonacecus, light to medium brown-grey, as above, moderately firm.
	10	LIMESTONE - as above.
1070-080	100	MARL - medium and light brown-grey, as above, moderately firm, speckled, silty.
1080-090	100	MARL - as above, medium and light brown-grey, silty.
1090-100	100	MARL - as above, light brown-grey, silty, carbonaceous.
1100-110	90	MARL - light brown-grey, speckled, sandy, as above.
	10	Fossil fragments - bryzoa, forams, shells.
1110-120	95	MARL - light brown-grey, as above, firm and friable, sandy and calcareous.
	5	Fossil fragments - as above.
1120-130	85	MARL - light brown-grey, silty, as above, carbonaceous.
	10	LIMESTONE - fine crystalline, silty, shaly.
	5	Fossil fragments - as above.

Depth Interval	%	Lithologic Description
1130-140	80	MARL - light brown-grey, firm, sandy, friable, calcareous, carbonaceous, slightly glauconitic, fossiliferous.
	10	LIMESTONE - fine crystalline, white and light brown, sandy, fossiliferous.
	10	Fossil fragments - forams, bryzoa, corals, shells (apparently in marl).
1140-150	50	MARL - light brown-grey, calcareous, sandy, grades to limestone.
	35	LIMESTONE - light brown-grey to white crystalline, silty and sandy, fossiliferous, moderately hard.
	15	Fossil fragments - as above, in limestone and marl. Sample is generally less shaly than all of the above samples.
1150-160	70	MARL - light brown-grey, as above, carbonaceous.
	15	LIMESTONE - as above.
	15	Fossil fragments - as above.
1160-170	90	MARL - light brown-grey, moderately soft to firm, silty, calcareous, as above.
	5	LIMESTONE - fine crystalline, light brown, sandy, as above.
	5	Fossil fragments - as above.
1170-180	80	MARL - light grey, as above.
	10	LIMESTONE - as above.
	10	Fossil fragments - as above.
1180-190	95	MARL - as above.
	5	LIMESTONE - as above, including fossiliferous fragments.
1190-200	85	MARL - light grey, as above. Trace carbonaceous and glauconitic.
	10	LIMESTONE - light brown and white, as above.
	5	Fossil fragments - as above.
1200-210	90	MARL - light brown-grey, silty, as above.
	5	LIMESTONE - as above.
	5	Fossil fragments - as above.
1210-220	90	MARL - light grey, silty, glauconitic.
	5	LIMESTONE - as above.
	5	Fossil fragments - as above.
1220-230	95	MARL - light grey, as above, glauconitic, trace carbonaceous.
	5	LIMESTONE - as above, including fossil fragments.
1230-240	90	MARL - light brown-grey, moderately firm, silty and sandy, calcareous and slightly glauconitic, trace carbonaceous material.
	5	LIMESTONE - white and light brown crystalline, moderately firm, silty and marly.
	5	Fossil fragments - forams, bryzoa, corals, shells.

Depth Interval	%	Lithologic Descriptions
1240-250	80	MARL - light brown-grey, as above.
	15	LIMESTONE - white, light brown, fossiliferous, as above.
	5	Fossil fragments - as above.
1250-260	85	MARL - as above, trace glauconite.
	10	LIMESTONE - as above.
	5	Fossil fragments - as above.
2160-270	95	MARL - as above, glauconitic.
	5	Fossil fragments - as above.
1270-280	85	MARL - as above.
	10	LIMESTONE - as above.
	5	Fossil fragments - as above.
1280-290	95	MARL - as above, light grey, glauconitic.
	5	LIMESTONE - as above, silty and marly.
1290-300	85	MARL - as above.
	10	LIMESTONE - as above.
	5	Fossil fragments - as above.
1300-310	85	MARL - as above.
	10	LIMESTONE - as above.
	5	Fossil fragments - as above.
1310-320	90	MARL - as above, light grey, glauconitic.
	5	LIMESTONE - as above.
	5	Fossil fragments - as above.
1320-330	95	MARL - as above.
	5	LIMESTONE - as above.
1330-340	95	MARL - as above, glauconitic and carbonaceous.
	5	LIMESTONE - as above.
1340-350	90	MARL - as above.
	5	LIMESTONE - as above.
	5	Fossil fragments - as above.
1350-360	95	MARL - light brown-grey, silty, moderately soft to firm, blocky, carbonaceous, slightly glauconitic, limy.
	5	LIMESTONE - light brown, moderately hard, finely crystalline, silty. Fossiliferous.
1360-370	95	MARL - as above.
	5	LIMESTONE - as above.
1370-380	100	MARL - as above.
1380-390	100	MARL - as above.
1390-400	100	MARL - as above.
1400-410	100	MARL - as above.
1410-420	100	MARL - as above.
1420-430	100	MARL - as above.
1430-440	90	MARL - as above but lending to bluish grey.
	10	CALCARENITE - as above with abundant fossil fragments.

Depth Interval	%	Lithologic Descriptions
1440-450	90	MARL - as above.
	10	CALCARENITE - pale grey to colourless, silty in part, carbonaceous in part, with variable dark green of black lithic inclusions. Trace vuggy porosity.
1450-460	70	MARL - as above.
	30	CALCARENITE - as above, variably glauconitic, rare crystalline limestone.
1460-470	60	MARL - as above.
	40	CALCARENITE - as above.
1470-480	80	MARL - as above.
	20	CALCARENITE - tending to skeletal limestone.
1480-490	60	MARL - as above.
	40	CALCARENITE - as above.
1490-500	60	MARL - as above.
	40	CALCARENITE - as above.
1500-510	50	MARL - bluish grey, soft, strongly argillaceous, often sticky, some clayey lumps.
	50	CALCARENITE - grey to slightly grey, silty in part, carbonaceous in part, with dark green lithic inclusions together with very thin crystalline limestone (cloudy to pale grey). Abundant fossil fragments and glauconite grains.
1510-520	30	MARL - as above.
	70	CALCARENITE - as above.
1520-530	10	MARL - as above with occasional bryzoal and coral fragments.
	90	CALCARENITE - as above with occasional bryzoal and coral fragments.
1530-540	30	MARL - bluish grey, lumps of clay embedded within.
	70	CALCARENITE - pale grey, as above.
1540-550	50	MARL - as above.
	50	CALCARENITE - pale grey, generally more carbonaceous, occasional fossil fragments.
1550-560	40	MARL - as above.
	60	CALCARENITE - as above.
1560-570	40	MARL - as above.
	60	CALCARENITE - as above.
1570-580	40	MARL - as above.
	60	CALCARENITE - as above, but with rare pale yellow, coarse, subrounded quartz.
1580-590	50	MARL - as above with rare quartz grains.
	50	CALCARENITE - as above with rare quartz grains.
1590-600	50	MARL - as above but strongly carbonaceous with rare, clear qubangular, medium-grained quartz.
	50	CALCARENITE - as above but strongly carbonaceous with rare, clear subangular, medium-grained quartz.

Depth Interval	%	Lithologic Descriptions.
1600-610	30	MARL - as above with abundant fossil fragments.
	70	CALCARENITE - as above with abundant fossil fragments.
1610-620	30	MARL - as above.
	70	CALCARENITE - as above.
1620-630	20	MARL - as above.
	80	CALCARENITE - as above.
1630-640	20	MARL - bluish grey, soft, strongly argillaceous, silty in part.
	80	CALCARENITE - grey, pale grey to colourless with abundant fossil fragments, dominantly forams and other skeletal remains.
1640-650	20	MARL - as above.
	80	CALCARENITE - as above.
1650-660	30	MARL - as above.
	70	CALCARENITE - as above.
1660-670	25	MARL - as above.
	75	CALCARENITE - as above, with rare coarse, rounded to subrounded quartz grains, often ferruginised, abundant forams and gastropods.
1670-680	25	MARL - as above.
	75	CALCARENITE - as above.
1680-690	40	MARL - as above.
	60	CALCARENITE - as above, with occasional crystalline limestone and rare quartz grains.
1690-700	30	MARL - as above.
	70	CALCARENITE - as above.
1700-710	30	MARL - as above.
	70	CALCARENITE - as above.
1710-720	30	MARL - as above.
	70	CALCARENITE - as above.
1720-730	40	MARL - as above.
	60	CALCARENITE - as above.
1730-740	50	MARL - bluish grey, silty in part, soft, lumps of greyish clay.
	50	CALCARENITE - pale grey to grey, silty in part, strongly calcareous, fossil fragments throughout. Rare loose quartz.
1740-750	50	MARL - as above.
	50	CALCARENITE - as above.
1750-760	50	MARL - bluish grey, sticky, together with lumps of dark grey clay.
	50	CALCARENITE - grey to pale grey, occasionally strongly siliceous, strongly calcareous, abundant skeletal fragments, often with dark green, black lithical inclusions also embedded glauconite grains (green). Rare loose quartz and crystalline limestone.

Depth Interval	%	Lithologic Descriptions.
1760-770	50	MARL - as above.
	50	CALCARENITE - as above.
1770-780	60	MARL - pale grey, trace brown-grey, moderately soft, sandy, as above.
	40	CALCARENITE - as above, sandy, siliceous in part.
1780-790	40	MARL - grey, moderately firm, blocky, slightly sandy and glauconitic, as above.
	60	CALCARENITE - light brown-grey, moderately hard, generally marly, strongly calcareous, consists of sand and silt sized quartz and calcareous fossil fragments, trace glauconitic and carbonaceous specks, matrix marly and limy.
1790-800	40	MARL - as above.
	60	CALCARENITE - as above.
1800-805	40	MARL - as above, medium grey, moderately firm, blocky, silty.
	50	CALCARENITE - as above, sandy.
	10	LIMESTONE - light brown, fine crystalline, hard and brittle.
1805		9⅝" CASING POINT.

Depth Interval	%	Lithologic Description
1805-810	10	SAND - quartz, coarse grains and pebble fragments, white and clear quartz. Grains subrounded.
	40	CALCARENITE - grey, moderately soft, sandy and containing abundant fossil detritus in an marly/ silty matrix. Trace glauconite.
	40	MARL - grey, moderately soft, silty and clayey, grades to calcarenite.
	10	LIMESTONE - light grey, finely crystalline, moderately hard, sandy. Tight with no shows.
1810-820	90	LIMESTONE - white, light brown, some light grey, moderately soft and chalky to moderately hard crystalline. Slightly sandy, trace fossil material. Generally finely crystalline, tight. Trace glauconite. No shows.
	10	MARL - grey, moderately soft, silty, as above.
1820-830	85	LIMESTONE - as above, sandy and silty. Tight. No shows.
	15	MARL - as above, sandy.
1830-840	95	LIMESTONE - buff, light brown, as above, finely sandy and silty, grading to calcisiltite. Trace black grains and glauconite. Tight with no shows.
	5	MARL - as above.
1840-850	90	LIMESTONE - as above, sandy, glauconitic.
	10	MARL - as above, silty, moderately firm.
1850-860	100	LIMESTONE - light brown, buff, moderately hard, sandy and silty, trace glauconite, trace of fossils, generally as above. Tight. No shows.
	Tr.	MARL - as above.
1860-870	80	LIMESTONE - buff, white, light brown-grey, moderately firm, silty, as above.
	20	MARL - green-grey and grey, moderately soft. Grades to calcareous clay in part. Glauconitic.
1870-880	60	LIMESTONE - buff, light brown-white, moderately firm, brittle, sandy, finely crystalline, slightly glauconitic. Tight. No shows. Trace fossil fragments (forams, corals).
	40	MARL - medium grey, silty, sandy, moderately soft, grades to clay in part. Trace glauconite.
1880-890	50	LIMESTONE - buff, as above.
	50	CALCARENITE - richly fossiliferous, medium grey, moderately soft, silty, marly and grading to marl. Trace pyrite, glauconite.
1890-900	10	LIMESTONE - buff, as above, silty.
	40	MARL - light to medium grey, silty, moderately firm to moderately soft, as above.
	50	MUDSTONE - light green-grey and grey, moderately soft, blocky, silty, trace of fossils, slightly to strongly calcareous and grades to marl.

Depth Interval	%	Lithologic Description
1900-910	30	LIMESTONE - buff, light brown, as above, slightly oolitic, slightly glauconitic, fossiliferous.
	40	MARL - grey, as above.
	30	MUDSTONE - as above, silty and calcareous.
1910-920	60	LIMESTONE - white, light grey and buff, moderately firm, chalky and finely crystalline, silty, fossiliferous, tight. No shows.
	30	MARL - medium and light grey, as above. Trace glauconite.
	10	MUDSTONE - as above.
1920-930	60	LIMESTONE - as above.
	30	MARL - as above.
	10	MUDSTONE - as above.
1930-940	50	LIMESTONE - light brown, grey, silty, as above.
	40	MARL - medium grey, slightly glauconitic, as above.
	10	MUDSTONE - as above.
1940-950	60	LIMESTONE - light brown, light grey, slightly silty and muddy, fossiliferous, as above.
	30	MARL - light grey, medium grey, silty, clayey, as above.
	10	MUDSTONE - light green-grey, as above.
1950-960	30	LIMESTONE - white, light brown, light grey, moderately soft to moderately firm, silty, slightly glauconitic grading to marl. Fossiliferous. Tight. No shows.
	50	MARL - light to medium grey, moderately soft, massive, slightly fossiliferous and glauconitic. Silty. Grades to Mudstone.
	20	MUDSTONE - medium grey, green-grey, massive, silty, moderately soft. Grades to marl.
1960-970	30	LIMESTONE - as above.
	40	MARL - as above, fossiliferous.
	30	MUDSTONE - as above.
1970-980	30	LIMESTONE - as above.
	30	MARL - as above.
	40	MUDSTONE - as above.
1980-990	20	LIMESTONE - white, light brown, moderately firm, finely crystalline, as above.
	30	MARL - medium grey, as above.
	50	MUDSTONE - green-grey and grey, as above.
1990-2000	30	MARL - as above, trace pyrite.
	30	LIMESTONE - as above.
	40	MUDSTONE - as above, silty.
2000-010	60	LIMESTONE - as above, white, slightly silty and sandy.
	15	MARL - medium grey, as above, trace glauconite.
	25	MUDSTONE - as above, soft, slightly fossiliferous and calcareous.

Depth Interval	%	Lithologic Description
2010-020	30	LIMESTONE - as above.
	30	MARL - as above.
	40	MUDSTONE - as above, fossiliferous.
2020-030	10	LIMESTONE - as above, light brown and white, finely crystalline.
	90	MUDSTONE - light green to grey, moderately soft, slightly calcareous, as above.
2030-040	10	LIMESTONE - as above.
	10	MARL - as above.
	80	MUDSTONE - as above, light green to grey.
2040-050	20	LIMESTONE - buff and light grey, moderately hard, finely crystalline, sandy, slightly fossiliferous. Tight with no shows.
	10	MARL - as above, grey, silty.
	70	MUDSTONE - medium grey, green-grey, soft and massive, silty, calcareous, slightly fossiliferous.
2050-060	100	MUDSTONE - light green-grey and grey, soft and blocky, as above.
	Tr.	LIMESTONE and MARL, as above.
2060-070	20	LIMESTONE - white and light grey, buff, richly fossiliferous, as above.
	80	MUDSTONE - light green-grey, moderately soft, blocky, calcareous, silty, as above.
2070-080	10	LIMESTONE - white, mainly fossil remants.
	10	CALCARENITE - pale buff brown, hard, very fine-grained, tight, occasional glauconite. In some cuttings, has large tabular zeolites or decomposed feldspar.
	5	QUARTZ grains, medium-grained.
	75	MUDSTONE - mainly pale green, weak, moderately calcareous, but also as pale buff-brown, silty.
2080-090	5	LIMESTONE - white, mainly as fossil fragments.
	5	QUARTZ grains, colourless, fine to medium-grained.
	90	MUDSTONE - interbedded green and grey, as above, with some white and massive, blocky mudstone, highly calcareous and firm to moderately hard (about 10%).
2090-100	10	LIMESTONE - about half as massive white limestone and half as coralline material.
	10	SILTSTONE - brown, calcareous, soft.
	80	MUDSTONE - pale grey-green, clean, soft, as above, and white-grey, silty, as above.
2100-110	10	SILTSTONE - buff brown, soft, slightly calcareous matrix.
	85	MUDSTONE - very pale grey, very soft, highly calcareous showing pronouced fissility, becoming shaley.
	5	FOSSIL FRAGMENTS and limestone particles.

Depth Interval	%	Lithologic Description
2110-120	10	LIMESTONE and FOSSIL FRAGMENTS - as above.
	5	SILTSTONE - brown, soft, as above.
	85	MUDSTONE - mixture of very pale green, as earlier described, very pale grey, fissile, tending to shaley and massive, pale grey, silty mudstone - about equal of each. All are soft and very calcareous.
2120-130	10	LIMESTONE - white, massive.
	80	MUDSTONE - mixture of pale grey-green, pale grey, fissile, creamy and massive. All are soft and very calcareous.
	10	SILTSTONE - brown, silty, firm to hard.
2130-140	5	LIMESTONE - mainly as fossil remains.
	5	SILTSTONE - brown, speckled, firm to hard.
	5	DOLOMITE - pale buff-bronw, firm to hard, finely granular.
	85	MUDSTONE - mixture of pale, green and pale grey, blocky to sub-fissile, occasional glauconite.
2140-150	5	LIMESTONE - mainly as fossil fragments.
	5	DOLOMITE - pale buff-bronw, hard.
	90	MUDSTONE - mainly as pale green, clean, blocky and calcareous, but also as pale grey, and about 10% as brown, moderately firm, silty.
2150-160	5	LIMESTONE - mainly as fossil material.
	5	DOLOMITE - as above, resembles very fine-grained calcarenite.
	90	MUDSTONE - mainly pale green, with pale grey, as above, some quartz grains, medium size, and occasional glauconite.
2160-170	5	LIMESTONE - white, massive, at times argillaceous, granular.
	5	FOSSIL FRAGMENTS - forams and corals.
	5	FERRUGINOUS, fine-grained, flakey material, at times with black surface resembling coal.
	85	MUDSTONE - mainly pale green but some buff coloured, silty, all soft. At times highly glauconitic, especially in the pale grey, silty mudstone. Highly calcareous. About 10% is white mudstone containing calcite grains.
	Tr.	Quartz grains.
2170-180	5	FOSSIL MATERIAL - coralline.
	Tr.	CALCARENITE - fine-grained, sandy, with calcareous matrix, moderately hard, pale brown.
	95	MUDSTONE - mostly pale green, soft with fossil material, highly calcareous, some 10% is brown, quite silty, firm, some 20% is white, firm and silty.
2180-190	5	FOSSIL FRAGMENTS - as above.
	5	LIMESTONE - argillaceous matrix to fossiliferous material.
	5	DOLOMITE - pale, buff colour, moderate reaction to acid.
	10	SILTSTONE - close to mudstone, white and pale grey, soft, pale grey material is glauconitic, highly calcareous. Also some pale brown, speckled siltstone-mudstone, not calcareous. Grey siltstone is occasionally glauconitic.
	75	MUDSTONE - pale green and grey, as above.

Depth Interval	%	Lithologic Descriptions
2190-200	5	FOSSIL FRAGMENTS - as above.
	5	DOLOMITE - pale brown, finely granular.
	10	SILTSTONE - pale brown, firm, non-calcareous, speckled appearance.
	80	MUDSTONE - pale grey and pale green, occasional glauconite. Soft, blocky.
2200-210	5	DOLOMITE - pale buff-grey, finely granular, hard.
	5	FOSSIL FRAGMENTS - as above.
	10	SILTSTONE - pale grey and soft, to buff brown and firm. Brown siltstone is speckled with dark brown grains.
	80	MUDSTONE - pale green to pale grey, calcareous, as above. Rare glauconite.
2210-220	30	SILTSTONE - pale grey, soft, occasional glauconite, glauconitic siltstone is moderately calcitic.
	70	MUDSTONE - pale green and pale grey, highly calcitic, occasional glauconite.
	Tr.	FOSSIL FRAGMENTS - as above.
2220-230	Tr.	CALCARENITE - pale buff brown to white, very fine-grained with calcareous matrix.
	20	SILTSTONE - buff-brown colour, non-calcareous, occasional glauconite, blocky, fracturing, soft.
	80	MUDSTONE - grey and pale green, soft, highly calcareous.
	Tr.	FOSSIL FRAGMENTS - as above.
2230-240	Tr.	CALCARENITE - as above.
	Tr.	FOSSIL FRAGMENTS - (brachiopods, etc.)
	20	SILTSTONE - uniform brown with occasional glauconite, soft to moderately hard.
	15	CALCILUTITE ? - fine-grained, white, moderately hard, richly calcareous material.
	65	MUDSTONE - pale green and grey, as above.
2240-250	5	CALCITE - and fossil fragments.
	20	SILTSTONE - pale brown, soft to moderately hard, occasional glauconite, blocky, fractures, moderately to strongly calcareous.
	60	MUDSTONE - pale green and grey, etc., as above.
	15	CALCILUTITE - white, soft, strongly calcareous, very fine-grained.
2250-260	20	SILTSTONE - fine-grained (very), brown, soft, speckled, at times strongly glauconitic, strongly calcitic.
	10	CALCILUTITE - white, very soft, very fine-grained, argillaceous appearance, strongly calcitic, strongly glauconitic at times.
	70	MUDSTONE - very pale green and pale grey, soft, blocky fracture, often silty, very calcareous. At times glauconitic.

Depth Interval	%	Lithologic Descriptions
2260-270	Tr.	SANDSTONE - hard, buff coloured, poorly sorted, contains clear quartz, well cemented, no porosity, moderately calcareous.
	20	SILTSTONE - very fine-grained, brown, slightly calcareous, soft, occasional glauconite.
	10	CALCILUTITE - at times granular, is white, soft, often strongly glauconitic, might be described as a calcic siltstone.
	70	MUDSTONE - pale grey and grey-green, soft, as above.
2270-280	10	SAND - coarse loose white and grey subrounded quartz. Common loose glauconite pebbles. Both quartz and glauconite pebbles probably floaters in mudstone.
	10	SILTSTONE - light brown, soft and moderately friable, sandy, calcareous and grading to silty limestone. Pyritic and glauconitic.
	10	LIMESTONE - white and buff crystalline, fine-grained, silty and soft, fossiliferous and glauconitic.
	70	MUDSTONE - medium and light grey, some green-grey, soft, massive, calcareous, glauconitic.
2280-290	10	LIMESTONE - white and buff, as above.
	80	MUDSTONE - light grey and brown-grey, as above.
	10	SILTSTONE - grey, light brown, calcareous, sandy, glauconitic, as above.
2290-300	10	SANDSTONE - loose quartz, as above, up to pebble size, dominantly white and grey quartz, some clear. Also glauconite nodules.
	20	SILTSTONE - light grey and buff, moderately soft, blocky, sandy, calcareous and grades to silty limestone. Pyritic and glauconitic.
	60	MUDSTONE - light grey and brown-grey to green-grey, soft, blocky, calcareous and fossiliferous, as above.
	10	LIMESTONE - forams, bryzoa, some shells. Minor silty, brown crystalline, as above.
2300-310	20	SANDSTONE - quartz grains and abundant glauconite, as above. Probably loose grains and nodules in mudstone.
	80	MUDSTONE - light grey-brown, glauconitic, soft, as above.
2310-320	10	SANDSTONE - as above, glauconitic.
	10	SILTSTONE - light brown, moderately soft, friable, calcareous, slightly glauconitic, as above.
	80	MUDSTONE - light brown and green-grey, moderately soft, blocky, fossiliferous, silty, moderately to strongly calcareous and grading to marl.
2320-330	20	SANDSTONE - as above, glauconitic.)
	20	SILTSTONE - as above, pyritic. } Abundant glauconite.
	60	MUDSTONE - as above, glauconitic and fossiliferous.

Depth Interval	%	Lithologic Description
2330-340	Tr.	SANDSTONE - quartz and glauconite, as above.
	20	SILTSTONE - brown, dolomitic, moderately firm, friable, slightly glauconitic.
	80	MUDSTONE - green, brown-grey and grey, as above, fossiliferous and glauconitic.
2340-350	40	SANDSTONE - light brown, very fine-grained and fine-grained, dolomitic, moderately firm, friable, grades to siltstone. Glauconitic. Tight. Dull gold fluorescence, weak cut in CCl_4.
	60	MUDSTONE - green-grey and grey-brown, as above, soft, blocky, silty, fossiliferous and glauconitic.
2350-360	40	SANDSTONE - light brown-grey, glauconitic, very fine and fine-grained, coarse glauconite and quartz floaters. Mostly loose grained, some fluorescence and cut as above.
	20	SILTSTONE - light brown-grey, soft, muddy, calcareous and grades to limestone.
	40	MUDSTONE - as above, green-grey and brown-grey, soft and blocky, glauconitic and pyritic.
2360-370	20	SAND - very coarse, loose, fair sorted, clean, clear and white quartz. Should have excellent porosity. No shows.
	80	COAL - brown, soft, lignitic, dul and shaley.
2370-380	10	MARL - very pale green and creamy white, at times silty and glauconitic, soft, and moderately to strongly calcareous, blocky.
	90	COAL - brown, soft to firm, lignitic, as above.
2380-390	5	MARL - as above.
	5	SAND - quartz coarse, loose, fair sorted, clean, clear and white, rounded.
	90	COAL - brown, as above.
2390-400	Tr.	SAND - as above.
	100	COAL - as above.
2400-410	20	SAND - medium grain size, clear quartz, rounded to subrounded, free grains.
	5	SILTSTONE - dark brown, with lignite inclusions, soft.
	20	MARL - pale green and cream, blocky, soft, occasionally with glauconite.
	55	COAL - brown, etc., as above.
2410-420	30	SAND - coarse-grained, clear quartz, rounded, medium sorted.
	70	COAL - brown, as above.
2420-430	50	SAND - clear quartz, coarse-grained, well sorted, rounded.
	50	COAL - brown, as above.
2430-440	5	SAND - medium to coarse-grained, as above.
	95	COAL - brown, as above.

Depth Interval	%	Lithologic Descriptions
2440-450	50	SAND - clean quartz, medium-grained, subrounded, medium sorted.
	50	COAL - brown, as above.
2450-460	50	SAND - clean quartz, medium-grained, subrounded, well sorted.
	50	COAL - as above.
2460-470	95	SAND - medium to coarse-grained, clean quartz, moderately to well rounded, medium sorted. No matrix - quite clean and uncemented.
	5	COAL - as above.
2470-480	95	SAND - medium to coarse-grained, subrounded, poor to medium sorting, clean, uncemented, no matrix.
	5	COAL - as above.
2480-490	95	SAND - medium-grained, rounded, well sorted, clean, as above.
	5	COAL - as above.
2490-500	80	SAND - clean, quartzose, medium-grain size, subangular, well sorted.
	20	COAL - as above.
2500-510	100	SAND - quartzose, clean, uncemented, subangular, medium grain size, well sorted.
	Tr.	COAL - black, firm to hard, dull.
2510-520	100	SAND - clean, as above. Coarse-grained, subangular, well sorted.
	Tr.	COAL - brown and black, dull.
2520-530	Tr.	SAND - medium-grained, free quartz, angular.
	95	MARL - pale green and blocky, also white, silty and glauconitic - may all be cavings.
	5	COAL - dull brown-black and soft.
2530-540	80	MARL - possibly cavings? Occasional coral fragments, marl similar to above.
	20	COAL - as above.
	Tr.	SAND - medium grain size, subrounded.
2540-550	30	SAND - clean, clear quartz, medium to coarse-grained, subrounded, poorly sorted.
	40	MARL - as above, possibly cavings.
	30	COAL - dark brown-black, as above.
2550-560	70	SAND - clean, clear quartz, medium-grained, subangular to subrounded, well sorted.
	20	MARL - mainly pale green, also white, silty, glauconitic, possibly cavings.
	10	COAL - as above.
2560-570	100	SAND - clean quartz, medium to coarse-grained, subangular, medium to well sorted.
	Tr.	COAL - as above.

Depth Interval	%	Lithologic Descriptions
2570-580	100	SAND - clean quartz, medium-grained, angular, medium to well sorted.
	Tr.	MARL - cavings? as above.
	Tr.	COAL - as above.
2580-590	90	SAND - clean quartz, medium-grained, subangular, well sorted.
	10	MARL - as above, cavings?
	Tr.	COAL - as above.
2590-600	90	SAND - fine to medium-grained to coarse, subangular to subrounded, poorly sorted.
	5	MARL - as above - cavings?
	5	COAL - as above.
2600-610	100	SAND - clean quartzose, medium to coarse grain size, subangular, poor to fair sorting.
2610-620	100	SAND - as above, but medium grain size and well sorted.
2620-630	100	SAND - medium to coarse to very coarse-grained, loose, clean, subrounded, fair sorted quartz - clear and white, minor grey volcanic grains. Minor matrix of brown lignitic clays, excellent porosity. No shows.
2630-640	100	SAND - as above, dominantly medium to coarse-graind loose quartz. Excellent porosity. No shows.
2640-650	100	SAND - as above, coarse loose quartz.
2650-660	100	SAND - loose, clean, medium to coarse-grained quartz, as above. Very common fine pyrite dusting on quartz grains.
2660-670	100	SAND - loose, medium to coarse-grained quartz, as above. Fair sorted and subrounded, as above with fine pyrite dusting.
2670-680	100	SAND - loose quartz, as above, less pyritic. Trace of brown coal.
2680-690	95	SAND - loose, clean, subrounded, medium to coarse-grained and very coarse-grained quartz and minor grey volcanic and quartzite grains. Excellent porosity. No shows.
	5	COAL - brown, lignitic, shaley, soft, dull.
2690-700	100	SAND - loose, clean, coarse-grained and very coarse-grained, white and clear, subangular and subrounded quartz, minor grey lithics. Some medium-grained.
2700-710	100	SAND - as above, loose, medium to coarse-grained and very coarse-grained quartz.
2710-720	100	SAND - as above, loose clean quartz. No shows.

Depth Interval	%	Lithologic Descriptions
2720-730	100	SAND - as above. Trace lignitic coal.
2730-740	100	SAND - as above, loose, clean medium to very coarse-grained quartz and lithics. Excellent porosity. No shows.
2740-750	100	SAND - loose, clean, medium to very coarse-grained, subangular to subrounded, dominantly of clear and white quartz, very minor light brown and dark grey lithic grains. No cement. Excellent porosity. No shows.
2750-760	100	SAND - loose, clean, medium to very coarse-grained quartz, as above. Trace of lignitic coal.
2760-770	100	SAND - loose, clean sand, as above.
2770-780	100	SAND - loose, clean, coarse quartz sand, as above.
2780-790	100	SAND - loose, clean quartz, as above.
2790-800	100	SAND - loose, clean, medium to very coarse-grained quartz sand, as above. Excellent porosity. No shows. Trace of lignitic coal, as above.
2800-810	100	SAND - loose, clean quartz, as above - except that it is dominantly medium and coarse-grained with less very coarse-grained. No shows. Excellent porosity.
2810-820	100	SAND - loose, clean quartz, as above. Trace coal, as above.
2820-830	100	SAND - loose, clean quartz, as above.
2830-840	60	SAND - loose, clean quartz, medium to very coarse-grained and highly porous, as above. No shows.
	20	CLAY - brown, soft, lignitic and grading to coal.
	20	COAL - soft, brown, shaley.
2840-850	20	SAND - as above.
	20	SILTSTONE - brown, moderately soft, shaley and coally. Grades to shale in part.
	60	COAL - soft brown, silty and shaley and grades to shale.
2850-860	10	SAND - as above.
	20	SILTSTONE - as above.
	20	SHALE - brown, silty and grades to siltstone.
	50	COAL - brown, soft, lignitic.
2860-870	20	SILTSTONE - moderately soft, medium brown, blocky, lignitic.
	80	COAL - dark brown, grading to very low grade black, moderately hard, some angular fragments.
2870-880	25	SAND - clean quartz, medium-grained, subangular, well sorted.
	25	SILTSTONE - medium brown, lignitic, as above.
	25	MARL - pale green, possibly cavings.
	25	COAL - as above.

Depth Interval	%	Lithologic Descriptions
2880-890	70	SAND - clean quartz, fine to medium-grained, subangular to subrounded, poorly sorted.
	25	MARL - as above.
	5	COAL - as above.
2890-900	60	SAND - as above.
	20	MARL - as above.
	20	SILTSTONE - medium brown, lignitic, blocky, soft.
2900-910	5	SAND - clean quartz, medium to coarse-grained, subangular to subrounded, medium sorting.
	5	SILTSTONE - pale brown, moderately hard, blocky.
	90	COAL - brown, dull, very silty, firm to hard, blocky.
2910-920	Tr.	SAND - as above.
	Tr.	SILTSTONE - as above.
	100	COAL - as above.
2920-930	Tr.	SAND - coarse, subrounded, clean quartz.
	5	SILTSTONE - pale brown, firm, blocky.
	15	SILTSTONE - dark brown, lignitic, grades into brown coal.
	80	COAL - brown, as above.
2930-940	30	SAND - clean quartz, fine to coarse-grained, very poorly sorted, subangular.
	10	SILTSTONE - pale brown, blocky, micaceous, at times dark brown, lignitic, with thin brown coal bands.
	10	MARL - white and pale green, possibly cavings.
	50	COAL - brown and black (similar to oil shale? - concordal fractures), firm.
2940-950	10	SAND - clean, white and colourless quartz, medium grain size, well sorted, angular.
	5	SILTSTONE - pale brown, with some sandy grains, and also dark brown, lignitic, verging into brown coal.
	85	COAL - brown, irregular, blocky.
2950-960	Tr.	SAND - as above, medium-grained and well sorted.
	100	COAL - brown, as above.
2960-970	Tr.	SAND - as above.
	100	COAL - brown, as above.
2970-980	10.	SAND - fine to medium-grained, clean quartz.
	5	SILTSTONE - medium buff brown, blocky, clean soft.
	15	MARL - pale green and white, silty, may be cavings.
	70	COAL - brown and also black - similar to oil shale, about 15% shaley material.
2980-990	100	COAL - brown, as above, but about 10% is black, dull, hard and sublaminated - oil shale?
2990-3000	5	SAND - medium to fine to coarse-grained, angular.
	5	SANDSTONE - white, very fine-grained, well sorted, clean quartz grains, scattered glauconite, hard, mildly calcareous.
	90	COAL - as above, brown and some black.

Depth Interval	%	Lithologic Descriptions
3000-010	100	COAL - brown lignitic, soft, dull and shaley. Trace of loose quartz sand, coarse-grained.
3010-020	30	SAND - medium and coarse-grained, loose, clean quartz, minor green and grey lithics, subrounded to subangular. No matrix. Excellent porosity, No shows.
	30	SILTSTONE - brown, soft, shaley and lignitic.
	40	COAL - lignitic, as above.
3020-030	70	SAND - loose, medium and coarse quartz, as above. No shows.
	10	SILTSTONE - as above.
	20	COAL - lignitic, as above.
3030-040	60	SAND - as above, no shows.
	10	SILTSTONE - light and dark brown, as above, calcareous and lignitic. Some dolomitic.
	30	COAL - lignitic, as above.
3040-050	50	SAND - as above, Trace pyritic dusting and aggregates.
	10	SILTSTONE - as above.
	40	COAL - as above.
3050-060	70	SANDSTONE- pale brown, very fine-grained with minor medium and coarse quartz. Hard and brittle, siliceous and dolomitic. Tight. Traces of cream fluorescence. No cut. (Dolomite fluorescence).
	10	SILTSTONE - as above.
	20	COAL - as above.
3060-070	10	SAND - loose, medium to coarse-grained quartz and dolomitic sand, as above.
	90	COAL - brown, lignitic, shaley, as above.
3070-080	10	SAND - loose, medium to coarse-grained quartz, as above, and very fine to fine-grained, dolomitic, as above.
	90	COAL - as above, lignitic.
3080-090	100	COAL - lignitic, soft, brown, shaley, as above.
	Tr.	SAND - as above.
3090-100	80	SANDSTONE - about 40% loose quartz sand grains and 40% as very fine to fine-grained dolomitic and siliceous light brown, as above. No shows.
	20	COAL - as above.
3100-110	90	SAND - loose, coarse quartz, medium to coarse-grained, fair sorted, as above.
	10	COAL - lignitic, as above.
3110-120	50	SANDSTONE - light brown, fine to medium-grained, hard and moderately hard, slightly friable, quartzose, dolomitic, siliceous. Detritals, subangular to subrounded quartz. Matrix silica and dolomite, tight to trace poor porosity. Dolomite fluorescence, no cut.
	10	SILTSTONE - dark brown to black, moderately firm, blocky, carbonaceous and lignitic, slightly calcareous.
	40	COAL - lignite, soft, brown to black, as above, shaley.

Depth Interval	%	Lithologic Descriptions
3120-130	40	SAND - loose coarse and medium-grained quartz, as above.
	10	SILTSTONE - dark brown, as above.
	50	COAL - black, dark brown, soft, lignitic, as above.
3130-140	80	SAND - coarse, loose clean, well sorted quartz, as above.
	20	COAL - lignitic, as above.
3140-150	90	SAND - coarse and very coarse-grained loose quartz, some pebbles, as above.
	10	COAL - lignitic, as above.
3150-160	80	SAND - coarse, clean, loose quartz, medium sorting, angular.
	Tr.	SANDSTONE - white, fine-grained quartzose, well cemented, white non-calcitic matrix. Tight, well sorted.
	20	COAL - mainly dull black, firm, blocky, angular.
3160-170	15	SAND - clean, loose quartz, medium to coarse to very coarse, angular, medium sorting.
	5	SANDSTONE - medium-grained quartz, very siliceous, very hard, low proportion of matrix, well sorted.
	85	COAL - brown, uneven, blocky, firm.
3170-180	20	SAND - clean quartz, medium to very coarse-grained, subangular, moderately to poorly sorted.
	Tr.	SANDSTONE - fine to medium-grained, quartzose, very hard, siliceous cement, low proportion of matrix.
	Tr.	SILTSTONE - brown, as above.
	20	MARL - pale green - cavings?
	60	COAL - dull brown to black, firm.
3180-190	Tr.	SAND - free quartz, medium to coarse-grained.
	5	SILTSTONE - brown, soft, lignitic, blocky.
	35	MARL - white, and pale green, soft.
	60	COAL - mostly dull brown, irregular, blocky, but about 30% is dull black, angular, blocky.
3190-200	5	SAND and fine-grained, siliceous SANDSTONE, as above.
	15	MARL - as above.
	80	COAL - as above.
3200-210	100	COAL - as above.
3210-220	20	SAND - clean quartz, coarse, subangular to sub-rounded, well sorted.
	Tr.	SANDSTONE - fine-grained, tight, siliceous, as above.
	10	MARL - pale green - cavings?
	70	COAL - brown, firm, blocky, crumbly, as above.
3220-230	30	SAND - medium to coarse-grained, loose quartz, subangular to subrounded, moderately to poorly sorted.
	20	SANDSTONE - medium-grained, quartzose, medium sorting, very hard, siliceous cement, low porosity.
	10	SILTSTONE - pale buff colour, firm, clean, speckled with a few mafics - some as previous siltstones.
	40	COAL - brown, as above.

Depth Interval	%	Lithologic Descriptions
3230-240	20	SAND - medium-grained, clean quartz, subangular, medium sorting.
	15	SILTSTONE - pale brown, as above.
	15	MARL - as above.
	50	COAL - brown, as above.
	Tr.	SANDSTONE - fine-grained, siliceous, as above, fluorescent.
3240-250	20	SAND - medium-grained quartz, angular, well sorted.
	5	SANDSTONE - fine-grained, well sorted, buff brown, hard, siliceous cement? - like quartzite.
	10	SILTSTONE - buff brown, as above.
	10	MARL - cavings?
	55	COAL - brown, dull black, as above.
3250-260	60	SAND - clean quartz, well sorted, angular, coarse grain size.
	Tr.	SANDSTONE - fine to medium-grained, hard, quartzose, siliceous cement, fluorescent.
	Tr.	SILTSTONE - pale brown, as above.
	20	MARL - cavings?
	20	COAL - brown and black, cavings?
3260-270	60	SAND - as above.
	10	SILTSTONE - pale buff brown, as above.
	15	MARL - as above, cavings?
	15	COAL - brown, as above - cavings?, a few scattered fluorescent specks.
3270-280	80	SAND - coarse, clean quartz, subangular, well sorted.
	10	MARL - cavings?
	10	COAL - brown - cavings?
3280-290	60	SAND - coarse quartz, as above, but subrounded.
	20	MARL - as above.
	20	COAL - as above.
3290-300	20	SAND - medium to coarse, well sorted, angular.
	10	DOLOMITE - creamy coloured, massive, hard, contains pyrite at times?
	40	MARL - cavings?
	30	COAL - brown, as above.
3300-310	30	SAND - as above.
	10	DOLOMITE - pale grey, finely crystalline.
	30	MARL - cavings?
	30	COAL - brown, as above.
3310-320	30	SAND - coarse-grained, angular, well sorted.
	10	DOLOMITE - pale grey, blocky, elongate fracture, hard.
	30	MARL - pale green and grey, silty at times.
	30	COAL - brown, as above.
3320-330	70	SAND - coarse-grained, clean quartz, angular, well sorted.
	20	MARL - as above.
	10	COAL - black, as above, soft, blocky, angular,

Depth Interval	%	Lithologic Descriptions
3330-340	70	SAND - coarse-grained, clear quartz, angular, well sorted.
	Tr.	SANDSTONE - fine-grained, hard, siliceous.
	15	MARL - pale green and glauconitic and also white, silty.
	15	COAL - brown, dull and also black, dull, with flakey fracture.
3340-350	80	SAND - coarse, clean sand, well sorted, subangular.
	Tr.	SANDSTONE - fine-grained, hard, siliceous.
	5	MARL - pale green, as above.
	15	COAL - brown and black, firm, blocky, angular cleavage.
3350-360	80	SANDSTONE - pale grey to colourless, strongly siliceous, together with colourless to milky white subrounded to subangular quartz grains, fairly well sorted, poor porosity. Strongly calcareous.
	20	SILTSTONE - cream and pale green, relatively soft, with random dark brown, black, lithic inclusions.
	Tr.	Pyrite aggregates, dolomite, coal.
3360-370	90	SANDSTONE - as above.
	10	SILTSTONE - as above.
3370-380	80	SANDSTONE - as above, but with dominantly clear, subrounded to angular quartz grains, often intensively siliceous, very abrasive in places.
	20	SILTSTONE - dark brown and pale green aggregates, sandy in part, kaolinized in part with abundant dark green lithic inclusions. Partly glauconitic, pyritic to some extent. Abundant coal cavings.
3386		P.O.O.H. FOR BIT CHANGE.
3380-390	40	SAND - loose, clean clear and white, medium to coarse-grained quartz, subangular to subrounded. Excellent porosity. No shows.
	60	COAL - lignitic (cavings?)
3390-400	100	COAL - lignitic, soft, brown, dull.
3400-410	70	SAND - loose, coarse quartz sand, as above. No shows.
	30	COAL - brown, lignitic, as above.
3410-420	90	SAND - loose, coarse quartz, as above.
	10	COAL - lignitic, as above.
3420-430	90	SAND - loose quartz, dominantly coarse and very coarse-grained, some medium-grained, subangular to subrounded, clear and white. No cement. Excellent porosity. No shows.
	10	COAL - brown, soft, shaley, lignitic.
3430-440	100	SAND - as above.
	Tr.	COAL - cavings.

Depth Interval	%	Lithologic Descriptions
3440-450	100	SAND - as above, ranging to very coarse-grained and granule size quartz. Trace grey quartzite. No shows.
	Tr.	COAL - as above, cavings.
3450-460	80	SAND - as above, coarse, loose quartz.
	20	COAL - lignitic, as above.
3460-470	90	SAND - as above, trace pyrite cement.
	10	COAL - lignitic, as above.
	Tr.	Brown siltstone, hard, friable, blocky.
3470-480	90	SAND - as above.
	10	COAL - as above.
3480-490	90	SAND - loose, coarse and very coarse-grained quartz, as above. No shows. Excellent porosity.
	10	COAL - as above. Abundant cavings in sample.
3490-500	30	SAND - as above.
	20	SILTSTONE - hard, brittle, pale brown, massive, siliceous, non-calcareous. Grades to shale. Coally faces in blocks.
	50	COAL - brown, as above.
3500-510	40	SAND - as above.
	60	COAL - as above. Trace siltstone and shale, as above, but soft also.
3510-520	70	SAND - loose, coarse quartz, as above.
	10	SILTSTONE - light brown, hard, as above.
	10	SHALE - light brown, moderately soft to moderately hard, silty and siliceous, as above.
	10	COAL - as above.
3520-530	100	SAND - loose, coarse quartz, as above.
	Tr.	SILTSTONE - as above.
	Tr.	COAL - as above.
3530-540	70	SAND - quartz, loose and clean, clear and white, medium and coarse to very coarse-grained, sub-angular to subrounded, as above. Excellent porosity. No shows.
	30	COAL - brown, soft, lignitic, shaley.
3540-550	100	SAND - as above.
	Tr.	SHALE - buff, moderately soft to hard, siliceous, as above.
3550-560	100	SAND - loose, clear, clean quartz sand, as above. Subangular to subrounded.
	Tr.	COAL - as above.
	Tr.	SHALE - as above.
3560-570	100	SAND - loose, clear quartz, coarse-grained, as above.
	Tr.	COAL - as above.

Depth Interval	%	Lithologic Description
3570-580	100	SANDSTONE - colourless to pale grey, coarse to very coarse, subangular to angular quartz grains, generally the grains appear to be"milled". Pyrite growths apparent. Fair porosity, non calcareous. Abundant fine to medium-grained quartz - result of grinding action of worn bit. Trace of siltstone, coal.
3580-590	100	SANDSTONE - two types evident: (10%) a. Pale grey, fine to medium-grained, siliceous aggregate. Poor porosity. (90%) b. Milky white, very coarse to coarse quartz grains, subangular to angular, crystalline, fair to no porosity. Trace pale grey to light brown claystone, sandy in part with dark brown, black, lithic inclusions and rare flakes of mica.
3590-600	60	SAND - coarse to very coarse-grained, angular, poorly sorted. At times grains are covered with pyrite.
	Tr.	SANDSTONE - fine-grained, very hard, siliceous.
	40	COAL - black, angular, blocky.
3600-610	25	SAND - extremely coarse (2mm. diameter), subangular, well sorted, at times cemented by pyrites - high proportion of pyrite, with less coarse sand.
	45	SAND - medium-grained, quartzitic, pale grey, brownish and greenish, very hard.
	5	SANDSTONE - medium-grained, angular, quartzitic grains cemented by high proportion of white kaolinitic matrix.
	5	SILTSTONE - pale brown, soft to hard.
	20	COAL - as above.
3610-620	25	SAND - coarse, as above.
	45	SAND - fine, as above.
	5	SANDSTONE - as above.
	25	COAL - as above.
3620-630	100	SAND - fine, well sorted - about 50% is clear quartz, rest is brown and grey, quartzitic in appearance.
3630-640	80	SAND - fine, as above.
	10	SANDSTONE - fine-grained, lithic, hard, contains angular grains, low percentage of white. ?Kaolinitic matrix. Tight.
	10	SILTSTONE - pale grey, buff, soft, some glauconite, massive and blocky. Also pale green.
3640-650	90	SAND - as above.
	10	SILTSTONE - pale green and brown, as above.
3650-660	40	SAND - mainly fine to medium-grained, angular, but some very coarse sand, poorly sorted, often pale green.
	10	SANDSTONE - fine to medium-grained, high proportion of lithic fragments - angular grains, hard, poorly sorted, low proportion of matrix.
	50	SILTSTONE - pale grey to buff coloured, firm, speckled, black with biotite?

Depth Interval	%	Lithologic Descriptions
3660-670	40	SAND - fine to coarse, as above.
	20	SANDSTONE - fine-grained, high proportion of lithics, angular grains, well sorted, low proportion of cement (white), but hard.
	40	SILTSTONE - pale green and pale brown, firm, at times lignitic. At times approaches very fine sandstone.
	Tr.	MUDSTONE - pale grey, hard.
3670-680	30	SANDSTONE - grey and pale grey, strongly siliceous, very feldspathic, carbonaceous.
	20	SAND - milky white to colourless, very coarse to coarse-grained quartz, occasionally ferruginised. Overall porosity very poor. Trace glauconite.
	40	SILTSTONE - as above.
	10	MUDSTONE - as above.
3680-690	75	SANDSTONE - dark grey, fine to very fine-grained, intensely siliceous, strongly kaolinitic in part, micromicaceous, feldspathic, strongly calcareous, good sorting, poor porosity. Abundant milky white quartz, very coarse to coarse-grained, subangular to angular, strongly carbonaceous.
	25	MUDSTONE - grey, bluish grey, micromicaceous, strongly argillaceous, sandy in part.
	Tr.	Weathered feldspar, flint, and coal.
3690-700	60	SANDSTONE - as above, but strongly feldspathic. No porosity.
	30	MUDSTONE - strongly micromicaceous.
	10	SILTSTONE - SAMPLE VERY CLAYEY.
3700-710	60	SANDSTONE - strongly feldspathic, strongly kaolinitic with pronounced carbonaceous streaks and plant fragments, also abundant dark green, black, lithic inclusions. Very strongly calcareous.
	20	MUDSTONE - as above.
	20	SILTSTONE - pale green fractions more prominent.
3710-720	50	SANDSTONE - as above, strongly carbonaceous, plant fragments.
	20	MUDSTONE - as above with carbonaceous streaks, very strongly micromicaceous, soft, sandy in part.
	30	SILTSTONE - pale green, pale brown, slightly micromicaceous, slightly sandy. Sample very clayey.
3720-730		Sample very intensely clayey. However, it contains a high proportion of fine to very fine-grained quartz, not recoverable in the vessel for proper determination of the various components.
	100	MUDSTONE - as above.
3730-740	50	SANDSTONE - pale green, pale grey, strongly feldspathic, micromicaceous, carbonaceous inclusions, weathered matrix, strongly kaolinitic, partly ferruginised. Minor amounts milky white to colourless, subangular, subrounded quartz grains, very coarse to coarse.
	25	MUDSTONE - brown, grey, micromicaceous, sandy in part, carbonaceous.
	25	SILTSTONE - pale green, grey, slightly sandy, micromicaceous.

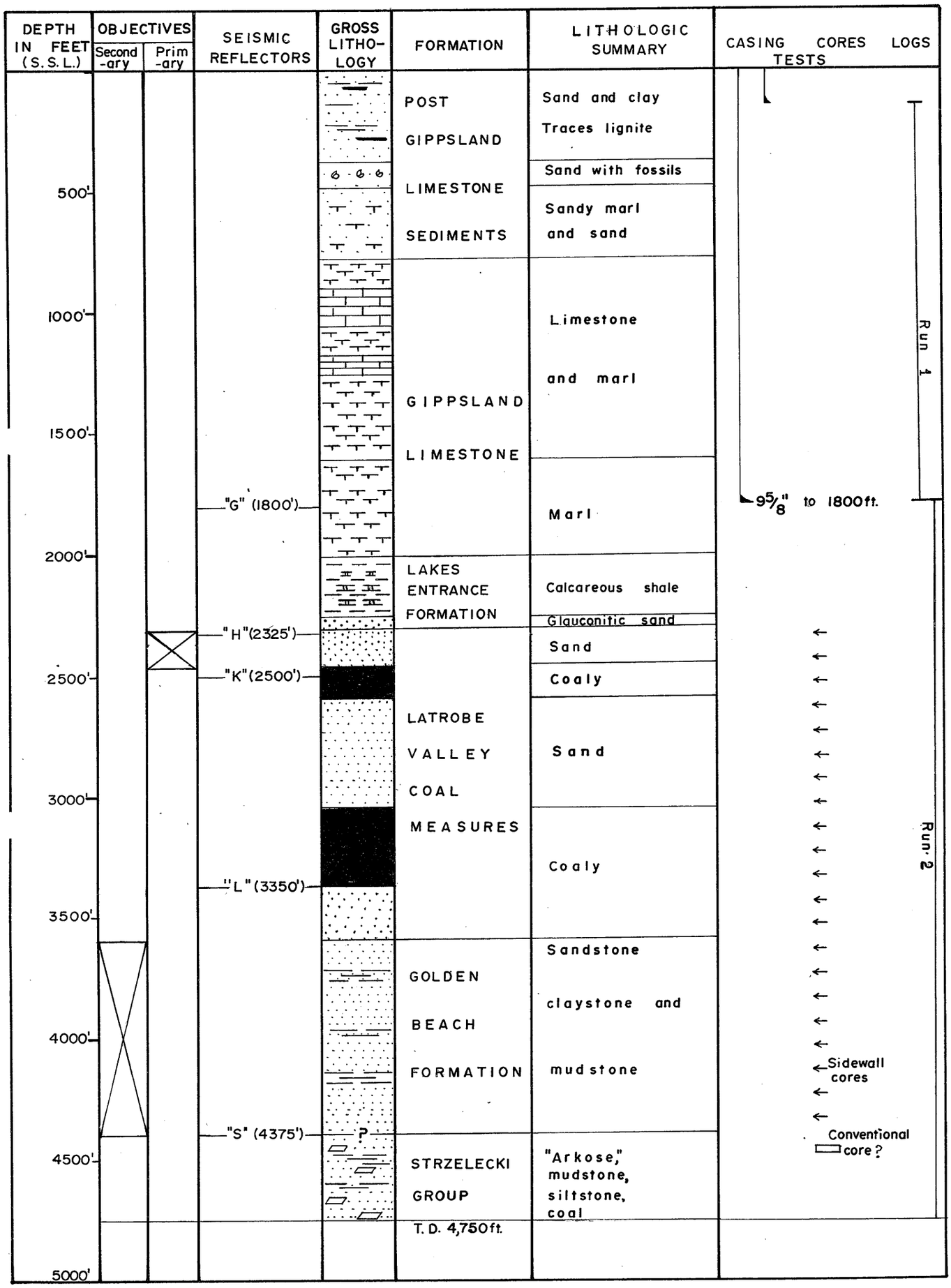
Depth Interval	%	Lithologic Descriptions
3740-750	75	MUDSTONE - as above. Sample very clayey, bluish grey.
	25	SANDSTONE - with minor amounts of loose quartz grains (fine to very fine).
3750-760		Sample intensely clayey. However, some fine to very fine-grained quartz is evident.
	90	MUDSTONE - as above.
	10	SANDSTONE - as above.
3760-770	90	MUDSTONE - as above.
	10	SANDSTONE - as above.
3770-780	100	MUDSTONE - very clayey, very little solids.
3780-790	80	MUDSTONE - medium grey, clayey, bentonitic(?), expands and hydrates on contact with water. Almost all dispersed on reaching surface, and washes out if samples are to be washed clean.
	20	SAND - loose grains of fine quartz, trace of feldspar and lithics.
3790-800	80	MUDSTONE - medium grey, shaley, clayey, as above.
	20	SAND - loose grains, as above, and chips of fine-grained lithic and feldspathic sandstone. Tight. No shows.
	Tr.	COAL - brown to black, flakes dominant, appear as bedding laminae.
3800-810	90	MUDSTONE - as above, grey, micaceous, fissile and shaley.
	10	SANDSTONE - as above, arkosic.
3810-820	90	MUDSTONE - as above.
	10	SANDSTONE - as above.
3820-830	90	MUDSTONE - as above, soft, washes out of samples.
	10	SANDSTONE - as above.
3830-840	90	MUDSTONE - as above.
	10	SANDSTONE - as above, lithic.
3840-850	90	MUDSTONE - as above.
	10	SANDSTONE - as above, lithic and feldspathic.
3850-860	80	MUDSTONE - as above, soft and washes out of samples.
	20	SANDSTONE - as above, strongly lithic and feldspathic, fine-grained.
3860-870	60	MUDSTONE - pale grey, moderately soft, blocky to slightly fissile, slightly micaceous, carbonaceous. Hydrates with water and washes out of samples.
	40	SAND - fine-grained, moderately hard, friable, well sorted, consisting of subrounded quartz and abundant grey, rare green and red-brown lithic grains. White kaolinized feldspars common. No shows. Tight.

Depth interval	%	Lithologic Descriptions
3870-880	70	MUDSTONE - as above, with shaley laminations. Carbonaceous and silty in part. Washes out of samples.
	30	SANDSTONE - as above, lithic and feldspathic.
3880-890	60	MUDSTONE - as above, shaley.
	10	SILTSTONE - grey, carbonaceous, shaley, moderately firm, blocky.
	30	SANDSTONE - as above.
3890-900	80	MUDSTONE - pale grey, soft, massive, carbonaceous fragments and streaks, plant remains.
	10	SILTSTONE - dark grey, pale grey, kaolinized in places.
	10	SANDSTONE - loose, very fine to fine-grained quartz, some lithics, kaolinized matrix.
3900-910	80	MUDSTONE - as above.
	10	SILTSTONE - as above.
	10	SANDSTONE - as above.
3910-920	75	MUDSTONE - as above, but samples very clayey.
	20	SILTSTONE - " " " " " "
	5	SANDSTONE " " " " " "
3920-930	70	MUDSTONE - as above, sample very clayey.
	20	SILTSTONE " " " " "
	10	SANDSTONE " " " " "
3930-940	60	MUDSTONE - as above.
	20	SILTSTONE - as above.
	20	SANDSTONE - as above.
3940-950	60	MUDSTONE - intensely argillaceous, approaching steel grey to dark grey in colour, prominent carbonaceous streaks, strongly kaolinized in places.
	20	SILTSTONE - greenish-grey, sticky.
	20	SANDSTONE - very fine-grained quartz.
3950-960	70	MUDSTONE - as above, with loose flakes of mica evident.
	20	SILTSTONE - as above, with loose flakes of mica evident.
	10	SANDSTONE - as above, with loose flakes of mica evident.
3960-970	60	MUDSTONE - steel grey, dark grey, blocky, soft, sandy in part, abundant carbonaceous streaks, randomly kaolinized, intensely argillaceous.
	20	SILTSTONE - dark grey, strongly argillaceous, pyritic in part, carbonaceous in part.
	20	SANDSTONE - pale brown, brown, medium to fine-grained, compact, kaolinized in places, micaceous, feldspathic. Also large amounts loose, fine-grained, angular quartz grains. Trace feldspars (weathered fragments, dolomitic).
3970-980	60	MUDSTONE - as above, not seen in cuttings as most has been disintegrated and washed away.
	10	SILTSTONE - medium grey, soft, as above.
	30	SANDSTONE - constitutes most of observed cuttings, soft to firm, mostly loose state in cuttings, fine to very fine-grained, rich in lithics, good to poor sorting, high to low proportion of white, kaolinitic matrix.

Depth Interval	%	Lithologic Descriptions
3980-990	20	SANDSTONE - fine to medium-grained, hard, well sorted, angular grains, high proportion of kaolinitic cement, high proportion of lithics, tight.
	60	SILTSTONE - pale grey and pale green, micaceous at times, speckled, often lightly lignitic, often grain size approaches very fine-grained sandstone, firm.
	20	MUDSTONE - medium, steely grey, firm to very firm.
3990-4000	20	SANDSTONE - fine-grained, very lithic, well sorted, tight, firm, low proportion of cement, some red-brownish, quartzose, siliceous cement, very hard, tight.
	60	SILTSTONE - as above, ranging into fine-grained sandstone.
	20	MUDSTONE - as above.
4000-010	50	SANDSTONE - as above, soft to firm, sometimes hard, crumbly, and is generally present as free grains.
	30	SILTSTONE - as above, soft, sometimes lignitic, and grades up to very fine-grained sandstone.
	20	MUDSTONE - as above, firm.
4010-020	50	SANDSTONE - as above.
	30	SILTSTONE - as above.
	20	MUDSTONE - as above.
4020-030	50	SANDSTONE - as above.
	30	SILTSTONE - as above.
	20	MUDSTONE - as above.
4030-040	50	SANDSTONE - very fine to medium-grained, very lithic, angular grains, well sorted, tight, at times seen to be interbedded with hard sandstone.
	25	SILTSTONE - as above.
	25	MUDSTONE - as above.
4040-050	50	SANDSTONE - fine to medium-grained, about 50% is loose. Soft to hard, lithic, high proportion of kaolinitic cement.
	35	SILTSTONE - as above.
	15	MUDSTONE - as above.
4050-060	60	SANDSTONE - as above, about 60% is loose.
	20	SILTSTONE - as above.
	20	MUDSTONE - as above.
4060-070	75	SANDSTONE - pale grey, greenish-grey, strongly kaolinitic, strongly feldspathic, profoundly carbonaceous, with abundant fine to very fine-grained, loose quartzose, abundantly micaceous, dark green lithic inclusions, partly ferruginised.
	20	SILTSTONE - pale grey, sandy in part, micromicaceous in part.
	5	MUDSTONE - dark grey, steel grey, sandy in part, soft, abundant carbonaceous streaks, intensely argillaceous.

Depth Interval	%	Lithologic Descriptions
4070-080	75	SANDSTONE - as above, strongly calcareous, strongly kaolinitic.
	20	SILTSTONE - as above.
	5	MUDSTONE - as above.
		Trace weathered feldspar, minor dolomitic fragments.
4080-090	70	SANDSTONE - as above,) Samples tending to
	20	SILTSTONE - as above.) contain more clay than
	10	MUDSTONE - as above.) those above. Trace pyrite.
4090-100	50	SANDSTONE - pale grey, strongly kaolinitic, strongly feldspathic, micaceous, weathered matrix, pyritic in part, abundant fine to very fine-grained, sub-angular, loose quartz grains. Weathered feldspar, dark green, black inclusions.
	25	SILTSTONE - occasionally micaceous, sandy in part.
	25	MUDSTONE - dark grey, with carbonaceous streaks and impregnations, micromicaceous.
		Trace unidentifiable pink particles (ferruginised feldspars?). Trace glauconitic grains randomly disseminated. Coal blebs.
4100-110	50	SANDSTONE - as above.) With traces of gypsum.
	25	SILTSTONE - as above.) This interval strongly
	25	MUDSTONE - as above.) carbonaceous.
4110-120	40	SANDSTONE - as above.)
	30	SILTSTONE - as above.) Abundant coal (cavings?)
	30	MUDSTONE - as above.)
4120-130	40	SANDSTONE - as above, strongly micromicacecus.
	30	SILTSTONE - as above.
	30	MUDSTONE - as above.
		Sample becoming increasingly more clayey.
		Abundant coal (cavings?)
		TOTAL DEPTH 4128 Feet (Driller)

Predicted Section — *WELLINGTON PARK No. 2*



SIDEWALL CORE DESCRIPTIONS

WELLINGTON PARK NO. 2

1. 3790' MUDSTONE

Grey to light grey, soft, blocky, slightly sandy, micromicaceous, strongly argillaceous and strongly calcareous.

2. 3674' SILTSTONE

Pale grey to grey, strongly argillaceous in places, slightly sandy, with minor clear, fine to very fine subrounded quartz grains. Slightly carbonaceous with occasional dark brown to black lithic inclusions.

3. 3590' SANDSTONE

Pale green with occasional clear medium to fine grained quartz, feldspathic, kaolinitic in places, slight ferruginised. Strongly carbonaceous.

4. 3530' MUDSTONE

Pale brown, soft, blocky, strongly argillaceous sandy in part, strongly carbonaceous with numerous coal streaks and plant remains.

5. 3503' MUDSTONE

Brown to brownish grey, soft, strongly argillaceous, slightly calcareous with an $\frac{1}{2}$" band of black coal interbedded in the mudstone.

6. 3390' MUDSTONE

Pale grey to brownish grey, soft, blocky, friable, strongly argillaceous, occasionally carbonaceous.

7. 2486' SANDSTONE

Pale grey, poorly consolidated with abundant milky white and colourless medium to very coarse (occasionally granule sized), subrounded to well rounded quartz grains. Slightly calcareous. Excellent porosity, no fluorescence.

8. 2474' SANDSTONE

Pale grey to grey, poorly consolidated with minor milky white and colourless, medium grained, subrounded to rounded quartz grains. Slightly calcareous, carbonaceous in part. Good porosity, no fluorescence.

9. 2424' SANDSTONE

Brown to dark brown (staining of the matrix probably due to lignitic impregnation). Composed of dominantly clear, medium to coarse grained, subrounded quartz. Slightly calcareous and occasionally argillaceous.

10. 2392' COAL

Black to brownish black, soft, friable, blocky lignitic, earthy, slightly argillaceous occasionally pyritic.

11. 2383' COAL

Black to brownish black, soft, blocky, friable, slightly sand, not as pyritic as sample 10, slightly argillaceous.

12. 2355' SANDSTONE

Pale grey to greenish, grey, poorly consolidated with minor clear, medium grained, subrounded to subangular quartz, moderately well sorted, strongly glauconitic with dark brown to black lithics. Slightly argillaceous and randomly calcareous.

Good porosity. No fluorescence.

13. 2350' MARL

Grey to dark grey, soft, strongly argillaceous sandy in part, slightly kaolinitic with impregnations of dark green glauconitic grains.

14. 2346' MARL

Grey to dark grey, soft, strongly argillaceous, strongly calcareous, with abundant glauconitic grains together with growths of pyrites, possibly as replacement of macro- and microfossils.

On a freshly broken surface, an end-on view of a foram (possibly a Cibicides) is visible.

15. NO RECOVERY.

16. 2180' MARL

Greenish grey, soft, slightly argillaceous, strongly calcareous, sandy in part, slightly pyritic in part, strongly fossiliferous but not to the same extent as sample 17.

17. 2130' MARL

Bluish grey, soft, blocky, strongly calcareous, containing abundant fossil fragments, dominantly Gastropods.

Sample descriptions by A. Marimuthu.

RHMcC:MS
8:JUNE:70

DRILL STEM TEST REPORT

Company: WOODSIDE OIL N.L. Date: 28:MARCH:70

Area: WELLINGTON PARK Well: NO.2. R.T. Elevation: 18.01

Test No.: 1. Interval: 2335'- 2374' Formation: L.V.C.M.

Tester, Size and Type: 5" HYDRO SPRING Packer, Size and Type: 8" 7¾" OPEN HOLE

Rubber, O.D.: 7¾" AND 8" B.H. Choke Size: .75" Drill Pipe, Size: 4½"

Full Hole, I.D.: 8¾" Pilot Hole, I.D.: - Casing, I.D.: 8.921"

Anchor, O.D. and I.D.: 5" - 2.37" Sump Volume: Water Cushion: NIL

Disk Valve, Depth: Tester Valve, Depth: 2314' Air Chamber Volume: -

Pressure) 2269
Gauges:) 2270
Clocks 12 hr. Range: 3000 psi. No.: 2.

(Anchor
(Perforations: 35'

Mud Weight: 8.9 P.P.G. Filtrate Salinity: Annulus Drop:

DIARY OF TEST — Started In: 4.00 am On Bottom: 7.00 am

Valve Opened: 7.05 am Valve Closed: Disk Broken:

Valve Opened: Gas to Surface: Oil to Surface:

Valve Shut: Pulled Packer: 7.18 am Out of Hole: 10.00 am

Initial Shut In Time: Flowing Time: Final Shut In Time:

SURFACE PRODUCTION —

Air or Gas, cu. ft./day (Time:
(
(Rate:

Oil, bbls./day (Time:
(Rate:

PIPE RECOVERY —

Oil: Water: Mud:

TOTAL PRODUCTION — Gas: Oil Water:

PRESSURE RECORD (Corrected Pressures) —

	Depth	M.P.	I.S.I.P.	F.F.P.	F.S.I.P.	Temp.
Top Gauge:						
Bottom Gauge:						

SAMPLES — Sampling Point Type of Fluid Sp.G. Salinity

MIS RUN.
UNABLE TO GET PACKER SEAT. - TWO ATTEMPTS WERE MADE TO SET PACKER.

PE604532

This is an enclosure indicator page.
The enclosure PE604532 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604532 has the following characteristics:

ITEM_BARCODE	= PE604532
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 6 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604533

This is an enclosure indicator page.
The enclosure PE604533 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604533 has the following characteristics:

ITEM_BARCODE	= PE604533
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 2 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604534

This is an enclosure indicator page.
The enclosure PE604534 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604534 has the following characteristics:

ITEM_BARCODE	= PE604534
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 3 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604535

This is an enclosure indicator page.
The enclosure PE604535 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604535 has the following characteristics:

ITEM_BARCODE	= PE604535
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 4 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604536

This is an enclosure indicator page.
The enclosure PE604536 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604536 has the following characteristics:

ITEM_BARCODE	= PE604536
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 5 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604537

This is an enclosure indicator page.
The enclosure PE604537 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604537 has the following characteristics:

ITEM_BARCODE	= PE604537
CONTAINER_BARCODE	= PE905915
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, page 6 of 6, (enclosure from WCR) for Wellington Park-2
REMARKS	= This Mud Log also has lithologigical descriptions alongside
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	=
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE604685

This is an enclosure indicator page.
The enclosure PE604685 is enclosed within the container PE905915 at this location in this document.

The enclosure PE604685 has the following characteristics:

ITEM_BARCODE	= PE604685
CONTAINER_BARCODE	= PE905915
NAME	= Composite Well Log
BASIN	= GIPPSLAND BASIN
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= COMPOSITE_LOG
DESCRIPTION	= Composite Log (enclosure 1 of WCR) for Wellington Park-2
REMARKS	=
DATE_CREATED	= 2/04/70
DATE_RECEIVED	= 17/03/86
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	= WOODSIDE OIL NL
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE906606

This is an enclosure indicator page.
The enclosure PE906606 is enclosed within the container PE905915 at this location in this document.

The enclosure PE906606 has the following characteristics:

ITEM_BARCODE	= PE906606
CONTAINER_BARCODE	= PE905915
NAME	= Well Correlation Diagram
BASIN	= GIPPSLAND BASIN
PERMIT	= PEP/72
TYPE	= WELL
SUBTYPE	= CROSS_SECTION
DESCRIPTION	= Well Correlation Diagram (enclosure 2 of WCR) for Wellington Park-2
REMARKS	=
DATE_CREATED	= 30/06/70
DATE_RECEIVED	= 17/03/86
W_NO	= W579
WELL_NAME	= WELLINGTON PARK-2
CONTRACTOR	= WOODSIDE OIL NL
CLIENT_OP_CO	= WOODSIDE OIL NL

(Inserted by DNRE - Vic Govt Mines Dept)