





**WELL SUMMARY  
NORTH SEASPRAY-2  
(W487)**

**CONTENTS.....**

**APPENDIX:**

**1.0 Well Summary Card**

**2.0 WCR (text)**

**3.0 Drilling Reports**

**3.1 Daily Drilling Reports**

**3.2 Weekly Drilling Reports**

**4.0 Lithology**

**4.1 Cuttings Log**

**4.2 Graphic Core Log**

**4.3 Progress Well Log**

**4.4 Tertiary Marine Sequence (J.B.Hocking)**

**4.5 Tertiary Stratigraphy (J.B.Hocking)**

**5.0 Drill Stem Test Data**

**6.0 Correspondence**

**ENCLOSURES:**

**1.0 Geological Plan**

**2.0 Drill Stem Test Data**

**3.0 Well Composite Log (1 of 2)**

**4.0 Well Composite Log (2 of 2)**

**5.0 Mud Gas Detection Chart**

**6.0 Electrical Log (1"/100')**

**7.0 Electrical Log (5"/100')**

note: Palynological Chart (PE900799) contains data from North Seaspray-2 but is not included in this summary.

**APPENDIX 1.0....**



PE906915

This is an enclosure indicator page.  
The enclosure PE906915 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE906915 has the following characteristics:

ITEM\_BARCODE = PE906915  
CONTAINER\_BARCODE = PE906182  
    NAME = Well Card  
    BASIN = GIPPSLAND  
    PERMIT = PPL/160  
    TYPE = WELL  
    SUBTYPE = WELL\_CARD  
DESCRIPTION = Well Card for North Seaspray-2  
REMARKS =  
DATE\_CREATED = 4/03/65  
DATE\_RECEIVED =  
    W\_NO = W487  
    WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR =  
CLIENT\_OP\_CO = LAKES OIL LTD

(Inserted by DNRE - Vic Govt Mines Dept)

**APPENDIX 2.0....**

WOODSIDE (LAKES ENTRANCE ) OIL COMPANY N.L.

NORTH SEASPRAY NO. 2 WELL

VICTORIA

WELL COMPLETION REPORT

by

J.C.PERRYMAN and R.G.PERRY

NOVEMBER 1965.

NORTH SEASPRAY NO.2. WELL  
P.P.L. 160 VICTORIA  
J.C.PERRYMAN and R.G. PERRY

I. SUMMARY.

North Seaspray No.2, a stratigraphic test, was drilled by Woodside (Lakes Entrance) Oil Company in early 1965. It was located in the Victoria Petroleum lease P.P.L. 160 in the Gippsland Basin. The geographic co-ordinates of the location are:  $38^{\circ} 18' 07''$  South Latitude,  $147^{\circ} 12' 20''$  East Longitude, a point about 17 miles South-Southeast of the townsite of Sale, Victoria. Total depth reached was 5358'.

The well was spudded on February 2nd 1965 and abandoned on March 4th 1965. No petroleum or gas shows were encountered during drilling. Bad hole conditions prevented accurate lithologic study of the lower 1358 feet of hole, and further prevented normal electric surveys and precautionary drill stem testing before abandonment.

Because of the close proximity of the well to the Arco/Woodside North Seaspray No.1 test good subsurface lithologic and structural control was possible in the Tertiary in spite of an extremely fast drilling rate and poorly defined formation markers. The well penetrated a predictable sequence of Tertiary formations, and at 4000' entered the Mesozoic Lower Cretaceous Strzelecki Group. The total depth reached (5358') is considered to be within the Strzelecki.

II. INTRODUCTION.

North Seaspray No.2 well was drilled about 700 yards southeast of North Seaspray No.1 to investigate the gas show encountered in the latter well at 2391 feet within the Strzelecki Formation.

The well was drilled on the same structure but to the south of North Seaspray No.1 and down flank from it in order to test Dr. Boutakoff's theory that meteoric waters, entering the formations in the north, had flushed the oil from the tops of structures into the synclines in the south.

III. WELL HISTORY.

1. General Data.

- (a) Well Name and Number:  
(b) Location:

North Seaspray No.2.  
Latitude:  $38^{\circ} 18' 07''$  South  
Longitude  $147^{\circ} 12' 20''$  East.  
Parish of Wulla Wullock,  
County of Buln Buln,  
Shire of Rosedale,  
17 miles S.S.E. of Township of Sale.  
Lakes Oil Ltd., 792 Elizabeth  
Street, Melbourne, Victoria.

- (c) Name and address of  
Tenement Holder:

- (d) District: Gippsland, Victoria.  
 (e) Details of Petroleum Tenement: P.P.L. 160 issued by the State of Victoria.  
 (f) Total depth: 5358 feet  
 (g) Date drilling commenced: 2nd February, 1965  
 (h) Date drilling completed: 22nd February, 1965  
 (i) Date well completed: 4th March, 1965  
 (j) Date rig released: 6th March, 1965  
 (k) Drilling time to total depth: 20 days.  
 (l) Elevation: Ground 77 feet. R.K.B. 89 feet.  
 (m) Status: Abandonment - Dry Hole.  
 (n) Costs: £41,045 as at 31.10.1965.  
 Subject to audit.

2. DRILLING DATA:

## a. Drilling Contractor

Reading & Bates (Aust.) P/L  
 100 Collins Street,  
 Melbourne. C.1. Victoria.

## b. Drilling Plant

Make  
 Type  
 Rated capacity with 4½"  
 Drillpipe  
 Motors: Make  
 Type  
 B.H.P.

National  
 50  
 7500 feet.  
 General Motors  
 2 only twin 6-71 Diesel  
 312 Continuous

## c. Mast

Make  
 Type  
 Rated Capacity

Lee C. Moore  
 131 feet. Cantilever  
 500,000 lbs.

## d. Pumps

No.1. Make  
 Type  
 Size  
 Motor: Make  
 Type  
 B.H.P.  
 No.2. Make  
 Type  
 Size  
 Motor: Make  
 Type  
 B.H.P.

National  
 C 250  
 7¼" x 15"  
 General Motors  
 Twin 6-71 Diesel  
 312 Drawworks compound  
 National  
 C 250  
 7¼" x 15"  
 General Motors  
 Twin 6 - 71 Diesel  
 306 Independent Drive

## e. Blowout Preventer Equipment

1. Make  
 Size  
 Series

Cameron  
 12" Type 'SS'  
 900

2. Make  
 Size  
 Series

Hydril  
 12" Type GK  
 900

f. Holes & Depths

20"	K.B.	to	44 feet
12 $\frac{1}{4}$ "	30'	"	880 feet
8 $\frac{3}{4}$ "	880'	"	5358 feet.

g. Casing & Liner details

1. Conductor Pipe	Size	13 $\frac{3}{8}$ "
	Weight	481bs
	Grade	H 40
	Setting Depth	44 feet K.B.
2. Surface String	Size	9 $\frac{5}{8}$ "
	Weight	461bs
	Grade	J 55
	Range	11
	Setting Depth	818 feet K.B.

h. Casing Cementing Details

1. Size	13 $\frac{3}{8}$ " Conductor Pipe
Setting Depth	44 feet K.B.
Quantity cement used	
Cement to	Surface
Method	Drilled & set by W.L.Sides & Sons Ltd.
2. Size	9 $\frac{5}{8}$ " Surface String
Setting Depth	818 feet K.B.
Quantity cement used	270 sacks
Cement to:-	Nil returns to surface. 15 sacks poured to Annulus from Surface.

i. Drilling Fluid1. Type

Conventional Bentonite/Water Mud was used to 3217 feet. After 3217 feet a Bentonite/ Ligno-sulphonate water base mud was used to Total Depth.

2. Chemical Consumption

Bentonite	44,600 lbs.
Caustic Soda	3,852 "
Sod. bicarbonate	500 "
Myrtan Lo-vis	350 "
Supercol bentonite	10,350 "
Unical	12,450 "
Milcon	4,400 "
Cellucol (CMC)	440 "
Micalox	36 sacks

3. Average Weekly Mud Analysis

Week	Depth feet.	Weight lbs/gal	Viscosity Secs.	W.L. C.C.	FC ins.	pH	Sand %
1	880	-	35	-	-	-	-
2	3950	9.3	54	4.4-25	2/32	8	-
3	5074	9.4	54	5.6	2/32	9.5	-
4	5358	9.2	55	5.2	2/32	9	-
5	5358	9.4	65	5.2	2/32	9	-

j. Water Supply

A water bore was drilled adjacent to the Rig-site by W.L. Sides & Son.

Size	6"
Depth	132 feet
Casing used	6" x 110 feet.
Brass screen	18 feet.
Supply	700 g.p.h. plus

k. Perforations Nill. Plug back & squeeze cementations

## Abandonment plugs.

3100'	-	3225 feet	35 bags
2060'	-	2160 feet	35 bags
750'	-	850 feet	45 bags
Surface plug		30 feet	8 bags.

m. Fishing

Depth	5358 feet.
Top of Fish	3186 feet.
Nature of fish:	21 stands Drillpipe 12" x 6 $\frac{1}{4}$ " Drill Collars

Cause Twist-off in Drillpipe

Recovered by: - Attempted to pick up fish with American Over-shot dressed with 4 $\frac{1}{2}$ " grapples and using jars. No result. Washed over top of fish 3 feet. Ran 7 $\frac{1}{8}$ " Over-shot. No result. Ran impression block. Ran Bowen Over-shot. No result. Ran American Over-shot with Mill guide. Milled over fish and recovered in entirety.

n. Side-tracked Hole Nil3. Logging & Testing:a. Ditch Cuttings:

Cuttings were collected at 10 feet intervals from surface to Total Depth (5358'); two sample cuts were made. One set was sent (in weekly shipments) to the Victorian Mines Department, Russell Street, Melbourne and an identical set was retained by the Company and placed in storage at the Woodside yard, Sale, Victoria.

b. Coring:

Representative core samples were collected, marked for identification and forwarded to the Victorian Mines Department, Russell Street, Melbourne.

<u>Core No.</u>	<u>Interval</u>	<u>Core barrel</u>	<u>Size Core-head</u>
1.	3930' - 3948'	Christensen	6 $\frac{1}{8}$ " Diamond
2.	3950' - 3957'	Hughes Type 'J'	8 $\frac{3}{4}$ " Soft form.
3.	4340' - 4352'	" " "	8 $\frac{3}{4}$ " Soft form.

c. Side-Wall Sampling: Nil

d. Electrical & other logging:

Type of Log	Interval
E & S.P. Curves	824 feet (Casing Point) to 3050 ft. 3700 feet to 5330 feet. (E.L.T.D.) This latter by small diameter sonde.

Hole conditions of cavings etc. prevented passage of the electric log beyond 3050 feet and further conventional logging sondes could not be run.

Lack of other small diameter logging tools prevented the running of the planned Sonic-Gamma Ray and Microlog-Caliper curves.

e. Drilling Time & Gas Log:

A Geograph rate of penetration recorder was used to record Drilling time.

An Ester-line Angus Gas Detector with a Honeywell Recorder was used for the Gas Log.

f. Formation Test:

It was intended running DST over the following intervals 4750' - 4800', 4400' - 4452' and 3950' - 3980'. However, restricting hole conditions prevented running DST tools despite repeated attempts following clean-up operations.

g. Deviation Surveys:

Totco deviation survey instrument was used at various levels as follows -

<u>Depth</u>	<u>Deviation (degrees)</u>
127 feet	$\frac{1}{2}$
625 "	$\frac{1}{2}$
880 "	$\frac{1}{2}$
2124 "	$\frac{3}{4}$
2800 "	2
3050 "	2
3765 "	$1\frac{1}{4}$
4740 "	$\frac{3}{4}$
5290 "	$\frac{1}{2}$

h. Temperature Survey Nil

i. Other Surveys Nil

j. Resume of Drilling History:

Well spudded at 4:30 AM February 2nd, 1965 and 12 $\frac{1}{4}$ " hole was drilled to 880'. 9 $\frac{5}{8}$ " Casing was set at 818.9' (824' below Kelly Bushing) with 270 sacks Portland cement. Plug and cement sump fill were drilled out on 7th February, and cement job was tested as satisfactory. 8 $\frac{3}{4}$ " hole was drilled (to Total Depth) and top of Latrobe Valley Coal Measures was reached on the 8th February.

Difficult hole conditions (sticky hole and partial Lost Circulation) were encountered at 3217', resulting in stuck pipe at this depth; approximately 12 hours were lost in



freeing pipe. Bad formation caving apparently began at this point ( though its degree and significance were not realised until the bit had passed beyond the base of the Coal Measures at 4000 feet).

Cores No.1 and No.2 were attempted at the respective intervals 3930' - 48' and 3950' - 57'; recovery in each was principally coal (detrital) and one piece of conglomerate sandstone. Drilling continued to the next coring point (4340'), with cuttings showing 100% coal with traces only of coarse sands. Core No.3, 4340' - 52', produced 12 feet of green sandy shale which was later analyzed and identified as Mesozoic in age. Further drilling however, produced only coal cuttings and the interpretation ( later proved erroneous) at the Well Site, was that the coal measures, either by thickening or faulting, continued far below the original anticipated base depth. By depth 5358', study of the section by electric surveys was requested. Before logging could commence however, a twist-off of drill pipe occurred at 3186 feet, and  $2\frac{3}{4}$  days were spent fishing.

After hole was cleaned up, logging was attempted ( February 27th), but hole conditions prevented the electric sonde's passage below 3050 feet. Mechanical behavior of the logging equipment indicated an extremely large hole diameter above 3050 feet, which, coupled with slight ( $2^{\circ}$ ) hole deviation at this level, totally prevented any cable-suspended tools from being lowered beyond 3050 feet. As drill pipe could be inserted beyond this point however, open ended pipe was lowered through the troublesome zone to a depth of 3700 feet, a special small-diameter electric survey sonde was then passed through, and a log was obtained of the lower open hole below 3700 feet ( 3700' - 5330'). Lack of other small diameter logging tools prevented the running of the planned Sonic - Gamma Ray - Microcaliper curves. Because of the manner in which caving coals had masked all cuttings from the pre-coal section, the decision was made to run precautionary drill stem tests over certain portions of the lower hole. The intervals intended for testing were 4750' - 4800', 4400' - 4452' and 3950' - 3980'. Once again restricting hole conditions prevented the running of the drill stem test tools ( rubber packers could not be lowered beyond the 3200 foot level, despite repeated attempts following hole-cleaning operations). The final operations involved the running of a microcaliper logging tool, and the running of a drill stem test string, both of which were unsuccessful in reaching below 3200 feet.

By this time, hole deterioration had accelerated at an alarming rate ( increasingly sticky hole, with attempts at circulating below 3200 feet bringing hundreds of cubic feet of caved coal to the surface every hour) and further attempts to rectify the situation were deemed too hazardous and expensive.

On March 3rd, abandonment cement plugs were placed at the following intervals: 3100' - 3225', 2060' - 2160', and 750' - 850'. Surface plugging was accomplished the following day, and the rig was released to the Contractor at 12 midnight, 4th March, 1965.

k. Bit Record

Bit 1	12 $\frac{1}{4}$ "	REED T, Surface	to	880 feet .
2	8 $\frac{3}{4}$ "	HUGHES OSC-3	880' to	2124 feet.
3	8 $\frac{3}{4}$ "	HUGHES OSC-3	2124' to	3217 feet
4	8 $\frac{3}{4}$ "	HUGHES OSC-3	3217' to	3762 feet.
5	8 $\frac{3}{4}$ "	HUGHES OSC-3	3762' to	3930 feet.
6	8 $\frac{3}{4}$ "	HUGHES OSC-3	3948' to	3950', RR 3957-4128 feet
7	8 $\frac{3}{4}$ "	HUGHES OSC-3	4128' to	4340 feet
8	8 $\frac{3}{4}$ "	HUGHES OSC-3	4352' to	4749 feet
9	8 $\frac{3}{4}$ "	HUGHES OSC-3	4749' to	5074 feet
10	8 $\frac{3}{4}$ "	HUGHES OSC-3	5074' to	5294 feet
11	8 $\frac{3}{4}$ "	HUGHES OSC-3	5294' to	5358 feet (T.D.)
Core Bit 1	6 $\frac{1}{8}$ "	CHRISTENSEN DIAMOND	3930-3948 feet	(destroyed)
Core Bit 2	8 $\frac{3}{4}$ "	HUGHES J-BLADE	3950' to 3957 feet	
Core Bit 3	8 $\frac{3}{4}$ "	HUGHES J-BLADE	4340' to 4352 feet	

CONTENTS

Page No.

I. SUMMARY	1
II. INTRODUCTION	1
III. WELL HISTORY	1
(i) General Data	1
(ii) Drilling Data	2
(iii) Logging and Testing	4
(iv) Resume of Drilling	5
IV. GEOLOGY	
(1) Summary of previous work	8
(2) Summary of Regional Geology	8
(3) Stratigraphic Table	9
(4) Stratigraphy	10
(5) Structure	12
(6) Relevance to occurrence of Petroleum	12
(7) Porosity and Permeability	12
(8) Contribution to Geologic Concepts	13
V. REFERENCES	13
VI. ENCLOSURES:	
(1) Drill Stem Tests	
(2) Composite Log	
(3) Regional Geological Map.	

IV GEOLOGY(1) Summary of Previous Work:

The most important of the wells drilled in the area were the Wellington Park No.1, Darriman No.1, Holland's Landing, Lake Kakydra, North Seaspray No.1, Merriman No.1, Carr's Creek No.1, and Seaspray No.1. All of these wells went into the Strzelecki Group sediments of Mesozoic age. The depths of these wells range from 3486 feet for the Lake Kakydra to 12,011 feet at Wellington Park No.1.

The Mesozoic rocks were studied in outcrop in the Strzelecki Ranges west of Seaspray. No surface geological work was attempted in the Seaspray area however, as the surface is covered with late Tertiary and Quaternary sediments which mask the underlying geology.

In 1962 a reflection seismic survey was conducted in the Seaspray area, and two anticlinal structures were mapped on horizons within the lower part of the Tertiary sequence.

The Gippsland Basin had previously been covered by a gravity survey in 1949 by the Robert H. Ray Co., and this was later complemented by additional gravity and aeromagnetic surveys by the Bureau of Mineral Resources, Geology and Geophysics.

(2) Summary of Regional Geology:

The Gippsland Basin is one of several small basins along the southeast coast of Australia. The Basin, as it is known today, had its greatest areal extent during Tertiary time. The basin proper, on shore, can be considered that area lying west of the Lakes Entrance granite high, south of the Tertiary-Paleozoic contact on the north side of the basin and east of a line connecting Wilson's Promontory and the town of Warragul. The basin extends south-eastward offshore where it is believed to contain a much greater thickness of Tertiary and possibly older sediments.

The Paleozoic sequence in the subsurface is probably very similar to the Paleozoic outcrops on the north side of the basin. Ordovician and Silurian sediments, altered by dynamic metamorphism, probably underlie Mesozoic or Tertiary sediments around the margins of the basin. Highly folded marine strata of Middle Devonian age occur as erosional remnants northeast and southwest of the basin proper, and isolated remnants may exist in the subsurface. Overlying Middle Devonian and older rocks on the north side of the basin is a thick sequence of continental red shales, sandstones, conglomerates and volcanics of Upper Devonian - Carboniferous age. These beds are only slightly to moderately folded, and probably extend at least as far south as Lake Wellington, in the sub-surface.

Permian sediments are unknown in the subsurface of the Gippsland Basin. However conglomerate, exposed along a major fault south of the Carrajung Uplift, is thought to be tillite of Permian age. This may indicate the presence of substantial Permian sediments below Mesozoic sediments in the basin proper.

The Paleozoic rocks north of the Gippsland Basin constitute the southern extension of the Tasman Geosyncline where the predominant structural trend is north - south. This same structural alignment can be expected in the subsurface of the basin.

No sediments of Triassic age are known in the Gippsland Basin.

The Upper Jurassic and Lower Cretaceous periods are represented by the Strzelecki Group, a thick sequence of non-marine sediments deposited in an east-west trending trough or graben. The thickness of this sequence is not known, but the Wellington Park No.1. penetrated 8,226 feet of it with no indication of reaching the base. Estimates of thickness in the Strzelecki Ranges, where it outcrops extensively, range from 5,000 to 20,000 feet.

In Eocene time downwarping resulted in widespread deposition of the Latrobe Valley Coal Measures over structurally complex rocks ranging in age from Ordovician to Mesozoic. In the Seaspray area the Mesozoic rocks were folded (or tilted), faulted and eroded before deposition of the coal measures resulting in a marked angular unconformity.

Further downwarping in Oligocene time produced a widespread transgression of the sea over the Gippsland Basin. Marine conditions existed until about Middle Pliocene time and the Lakes Entrance Formation, Gippsland Limestone, Tambo River Formation and Jemmy's Point Formation were deposited during this period.

From Upper Pliocene to recent time, non-marine conditions have prevailed, resulting in a cover of sand, clay and gravel, known as the Lake Wellington Formation and Haunted Hills Gravels, over most of the basin.

In the Seaspray area, and probably other areas as well, deposition of the Tertiary sediments took place over a topographically irregular surface developed in the folded and faulted sediments of the Strzelecki Group. This allowed for differential sedimentation and compaction of the sediments into gentle folds. These folds have been further complicated by uplift and faulting in Pliocene time.

#### STRATIGRAPHIC TABLE

The following is the stratigraphic sequence penetrated in the North Seaspray No.2.

T A B L E

Age	Name	Depth (Ref KB)	Thick- ness	Lithology
U.Pliocene	Lake Wellington Fm, and/or Haunted Hills Gravels	280'	369'	<u>Sand</u> , <u>Gravel</u> and <u>Clay</u> .
L.Pliocene	Jemmy's Point Formation	320'	60'	<u>Sand</u> , <u>Shells</u> and minor <u>Marl</u> .
U.Miocene	Tambo River Formation	430'	170'	<u>Marl</u> , with minor <u>Limestone</u>
Miocene	Gippsland Limestone	1690'	1540'	<u>Limestone</u> and <u>Marl</u>
Oligocene	Lakes Entrance Formation	2120'	515'	Calcareous <u>Shale</u> and <u>Marl</u>
L.Oligocene to U.Eocene	Latrobe Valley Coal Measures	4000'	1877'	<u>Sandy</u> , <u>Coal</u> and <u>Clay</u>
Lower Cretaceous	Strzelecki Group	5358'	1013'	Greywacke, Mudstone, Claystone and Siltstone.

STRATIGRAPHY

0' - 280' feet

Lake Wellington Formation and/or Haunted Hills Gravels

Upper Pliocene - Pleistocene

Sand, gray to white, quartz and minor gray rock fragments, fine to coarse grained, sub-angular to sub-rounded; Clay, yellow to red, often ferruginous; Siltstone, gray to brown, argillaceous; and Lignite, black, brittle.

This unit is non-marine, but probably grades southward into marine sediments. In the Merriman No.1. well, 1.5. miles southeast, a fossiliferous sand was present in the sequence.

280' - 320 feet

Jemmy's Point Formation

Lower Pliocene

Sand. gray, medium to very coarse grained with occasional small pebbles; Shells mostly fine detrital material; and minor Marl gray, silty fossiliferous friable

320 - 430 feet

Tambo River Formation

## Upper Miocene

Marl, gray to light green, very fossiliferous, partly silty; with Sand and Shells ( possibly contamination).

430 - 1690 feet.

Gippsland Limestone

## Miocene

From 610 to 1440 feet Limestone, white, gray and cream, fine-grained, very fossiliferous, friable to medium hard, slightly glauconitic, becoming argillaceous in lower part. From 1440 to 1950 feet Marl. light to medium gray and gray green, partly silty, fossiliferous, slightly glauconitic, soft to friable and Limestone, as above. Grades downward into Shale. From 1950 to 2150 feet Shale, green to gray green and light gray, slightly calcareous, fossiliferous, soft, slightly to moderately glauconitic.

The base of the Gippsland Limestone is gradational into the underlying Lakes Entrance Formation.

1690 - 2120 feet

Lakes Entrance Formation

## Oligocene

Predominantly Shale, green to gray green and light gray, slightly calcareous, fossiliferous, soft, glauconitic throughout, becoming very glauconitic in bottom 10 feet; minor Limestone and Marl, as above; Dolomite,

light gray to light brown, very fine grained, hard, glauconitic.

2120 - 4000 feet

Latrobe Valley Coal Measures

## Upper Eocene - Lower Oligocene

Sand, mostly colorless quartz, fine to very coarse grained and occasionally pebbly, mostly sub-angular, clean to argillaceous, poor to very good porosity; Coal, brown to black, soft to brittle, dolomitic at 2120 to 3900 feet; Clay ( or Claystone). Light gray to white and brown, often carbonaceous.

The top of the coal measures is in sharp contrast with the overlying Lakes Entrance Formation, and these may be separated by a minor unconformity.

The base of the coal measures overlies folded and eroded strata of the Strzelecki Group.

There is a marked increase in thickness of the coal measures in a southwesterly direction. The thickness increases from 765 feet in the Holland's Landing Well, to 1400 feet in the Wellington Park No.1, to 1701 feet in the North Seaspray No.1, to 1877 feet in the Seaspray No.1. and finally to 2387 feet in the Merriman No.1. The thickening appears to take place throughout the sequence and is not confined to the basal part or to any single unit.

4000 - 5358' feet

Strzelecki Group

Lower Cretaceous

Interbedded Graywacke, gray-green speckled black and white, very firm to medium-grained, comprised mainly of volcanic detrital fragments and quartz in a clay-chlorite matrix, traces of fine red shale fragments, poor to very poor porosity, carbonaceous Mudstone - Claystone, light gray, soft; Shale, gray to green, often carbonaceous, firm; and Siltstone, light gray to tan, firm to slightly hard, argillaceous.

The lithology of the Strzelecki Group in the North Seaspray No.2 is similar to that penetrated in the other wells in that the clastic material is predominantly fine grained, and the porosity is very poor due to the clay-chlorite matrix.

The correlation with other wells of individual beds within the Strzelecki Group is not possible.

The thin gas sand present in the North Seaspray No.1. was not present, or not recognizable due to "shaling out".

5. Structure

Structurally North Seaspray No.2. is 200 feet lower than North Seaspray No.1. through the Tertiary section. Correlation between the wells through the Strzelecki Group is uncertain. Unfortunately, because of mechanical difficulties, the Dipmeter could not be run, but on other nearby wells it has indicated a complete reversal of the direction of dip in the Mesozoic from that in the Tertiary.

6. RELEVANCE TO OCCURRENCE OF PETROLEUM:

As already stated this well was drilled primarily to investigate the gas show encountered in North Seaspray No.1. at 2391' within the Strzelecki Formation; but also to test Dr. Boutakoff's theory that the oil had been flushed southwards off the structures into the leeward synclines by meteoric waters entering the formations in the North.

No shows of gas or oil were encountered in the drilling of this well.

7. POROSITY AND PERMEABILITY OF SEDIMENTS PENETRATED:

Because of the impossibility of running any logs other than the resistivity / S.P. log, little can be said about the porosity of the formation.

Clean, porous sands are present from the surface to 280'.

The limestones of the Gippsland Limestone are known to be porous.

The sands of the Latrobe Valley Coal Measures have good porosity throughout.

The porosity within the Strzelecki Formation is poor



8. CONTRIBUTION TO GEOLOGIC CONCEPTS ARISING FROM DRILLING:

Because of the heavy caving of the coals and the poor mechanical condition of the hole, making it impossible to run any logs other than the Resistivity / S.P. log, this well has not contributed much to the geology within the area, except to confirm the previous knowledge of the stratigraphy.

V. REFERENCES:

- Boutakoff, N. 1954 - 5. A new approach to Petroleum Geology and oil possibilities in Gippsland, Min, Geol, Jour. Vic. Vol 5. Sept 1954 - March 1955.
- Boutakoff. N. (1964) Lakes Entrance Oil and the Continental Shelf. APEA 1964.
- Hocking, J.B.(1965) Characteristics of the Tertiary formations of southern and south eastern Gippsland Geological Survey of Victoria.
- Hocking, J.B. and Taylor, D.J. (1964) Initial marine transgression in the Gippsland Basin, Victoria APEA Journal 1964.
- Ingram, F.(1962-4-) Composite logs, Merriman No.1, Carr's Creek No.1, Seaspray No.1, Duck Bay No.1.
- Thyer, R.F. and Noakes, L.C. Oil in glauconitic sandstone at Lakes Entrance, Victoria B.M.R. report No.22.
- Webb, E.A.(1964) Petroleum Prospects in the Gippsland Basin, Australia.
- Webb, E.A.( 1961) The Geology and Petroleum Possibilities of the Gippsland area, Victoria, APEA.

**APPENDIX 3.0....**

DAILY DRILLING REPORT

WELL N. SEASPRAY No: 2 Report No. 1 Date 2 FEB 65  
 Depth at 8.00 a.m. 127 Operation at 8.00 a.m. SD for flow plate adjust  
 Hole made in 24 hrs. 127 Hours Rotating 1 1/2 Rate approx 2' / min.  
 Drilling Wt. — R.P.M. — Pump Press 10' = 5M

MUD

Wt/S.G.	Vis.	Sec W.L.C.C.	Coke	p <sup>H</sup>	Sand	Other
—	—	—	—	—	—	(Water mud)

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS 1	12 1/4	R	T	34225	SURF	(127)	(127)	(1 1/2)				RUN

SURVEY —

Lithology Coarse sandstone (yellow to colorless, poorly-cemented) 40-90;  
Gray and black gummy clay gumbo 90-110; Coarse sandstone  
(as first drilled) 110-127+.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —  
 IHP — ISIP — IFP — FFP — FSIP — FHP —  
 BHT — Chokes: BH — Surface: — Rec. —

Remarks Spudded 4:30 AM 2 February, 1965.

30 50\* Gal.

COMPANY WOODSIDE

RECEIVED  
8 FEB 1965  
3 Feb 65

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 2 Date 3 Feb 65

Depth at 8.00 a.m. 630 Operation at 8.00 a.m. PAUSED - water supply

Hole made in 24 hrs. 630 Hours Rotating 13 1/2 Rate Av. 4 1/2' per minute

Drilling Wt. 5 R.P.M. 120 Pump Press 60 SPM

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	p <sup>H</sup>	Sand	Other
	—	—	—	—	—	—	—	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	1	1 1/4	Reed	T	34225	Surf	(630)	(630)	(6 1/2)	5	120	60 SPM	Run.

SURVEY 127' , 1/2°

Lithology 110 to APPROX. 275: Sands and gravels of L. Wellington Fm;  
275 - 560 fossiliferous gray marl, probably Jemmy's Point Fm.  
560 to present depth, firm fossilif marl, possibly Tambo River Fm.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Water pump breakdown has hampered operations  
since last evening; drilling suspended midnight;  
pump repaired, installed, pumping by  
daylight; conditioning hole and building up  
water supply at 8 AM prior to drilling ahead.  
Actual hole made: 630 less 40 (Spud depth  
below KB) = 590.

COMPANY Woodside

RECEIVED  
Form 5  
3 FEB 1965

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 3 Date 4 Feb. 65  
 Depth at 8.00 a.m. 880 Operation at 8.00 a.m. Tripping to run casing  
 Hole made in 24 hrs. 250 Hours Rotating 2 3/4 Rate 4 to 5' / min.  
 Drilling Wt. 5 R.P.M. 120 Pump Press. 56 SPM

MUD	Wt/S.G.	Vis.	Sec	W.L:C.C.	Coke	pH	Sand	Other
	-	30-35	-	-	-	-	-	-

BITS	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
	1	12 1/4	Reed	T	34225	Surf	880	880	1 1/2	5	120	56 SPM	Green 1-1-0

SURVEY 625', 1/2° 880', 1/2°

Lithology Sandy fossiliferous soft gray marl and minor clays with little lithologic variation from 275 to present depths.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Fast drilling rate has hampered reliable

lithologic interpretation  
Lack of spidew yesterday prevented running casing as planned; some pipe back in hole and circulated this AM. Required equipment obtained locally this AM.

COMPANY Woodside

Form 5

DAILY DRILLING REPORT

WELL N. Seapray No. 2 Report No. 4 Date 5 Feb-65

Depth at 8.00 a.m. 880 Operation at 8.00 a.m. WOC

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	—	—	—	—	—	—	—

BITS	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Set 9 5/8" casing at 819' (818.9), cemented w/270 sacks cement; operation completed 3:15 PM yesterday.

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 5 Date 6 Feb. 1965

Depth at 8.00 a.m. 880 Operation at 8.00 a.m. WOC, NIPPLING UP

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	—	—	—	—	—	—	—

BITS	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
	—												

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

T No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Completing Nippling-up; should pressure up to test casing-cement, and drill ahead this morning.

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 6 Date 7 FEB, 1965

Depth at 8.00 a.m. 1380 Operation at 8.00 a.m. DRILLING

Hole made in 24 hrs. \_\_\_\_\_ Hours Rotating 5 Rate 4 → 3' / MIN.

Drilling Wt. 8 10 R.P.M. 60 140 Pump Press 500

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	p <sup>H</sup>	Sand	Other

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	2	8 3/4	H	OS C3	68249	880	(1380)	(500)	5	10 <del>8</del>	140 <del>60</del>	500	(RUN)

SURVEY NONE

Lithology 880' TO PRESENT DEPTH: MARL, LT. GRAY, SOFT, CLAYEY, CALC, V. FOSSILIF, SL. SDY.

Core: No. — Interval \_\_\_\_\_ Feet Cut \_\_\_\_\_ Rec. \_\_\_\_\_ Core Diam. \_\_\_\_\_

Description \_\_\_\_\_

DST No. — Interval \_\_\_\_\_ ISI \_\_\_\_\_ FLOW \_\_\_\_\_ FSI \_\_\_\_\_

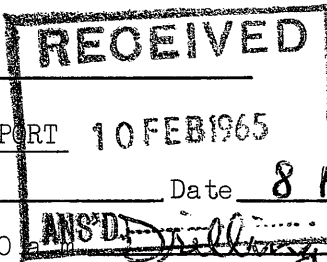
IHP \_\_\_\_\_ ISIP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FSIP \_\_\_\_\_ FHP \_\_\_\_\_

BHT \_\_\_\_\_ Chokes: BH \_\_\_\_\_ Surface: \_\_\_\_\_ Rec. \_\_\_\_\_

Remarks Drilled out plug 10 PM, drilled out cement, shoe, and sump cement fill by 2 AM, drilled out below 880 at 3 AM. Blind rams pressured up to 800 # psi, held OK, increased to 1000 psi, OK; pressured pipe rams at 1100 psi, held OK; pressured formation/cement below shoe, 500 psi 10 minutes, OK.



COMPANY WOODSIDE



Form 5

DAILY DRILLING REPORT 10 FEB 1965

WELL N. SEASPRAY No. 2 Report No. 7 Date 8 FEB 65  
 Depth at 8.00 a.m. 2313' Operation at 8.00 a.m. ANS'D  
 Hole made in 24 hrs. 967' Hours Rotating 18 Rate 3-5'/MIN.  
 Drilling Wt. 15-20 R.P.M. 120 Pump Press 450-500

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.5	53	25+	2/32	-	-	-	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	2	8 3/4	H	OS 23	68249	880	2124	1244	21 1/4	15-20	120	500	1 CONE LOCKED TI-B4-0
	3	8 3/4	H	OS 23	69491	2124	(2313)	(89)	(1)	20	120	500	RUN.

SURVEY 2124, 3/4°

Lithology 880 - ~~2060~~ 2060 gray sticky clay marl, w. fossilif. calc, soft; occasionally silty and sandy. 2060 - present depth: cross beds, gray clays, minor coals; 100% coal below 2220

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

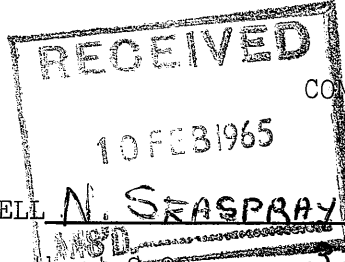
DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Approx top of Hattah Valley coal  
measured 2060

9:15 AM depth 2434; replacing mud; old mud beyond viscosity, control due to clay contamination



COMPANY WOODSIDE

DAILY DRILLING REPORT

Attempting to overcome partial L circulation

WELL N. SPRAY No. 2 Report No. 8 Date 9 FEB 65  
 Depth at 8.00 a.m. 3217 Operation at 8.00 a.m. Tripping for bit change  
 Hole made in 24 hrs. 904' Hours Rotating 16 3/4 Rate av. 1'/min.  
 Drilling Wt. 18-20 R.P.M. 120-140 Pump Press 500

MUD

Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	p <sup>H</sup>	Sand	Other
9.2	35-40	25		2/32	-	-	-

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS 3	8 3/4	H	OS C3	69491	2124	3217	1093	17 3/4	18-20	120-140	500	RUN

SURVEY \_\_\_\_\_

Lithology Predom. brown coals, assoc. w/ variable quantities of very coarse grained sandstones, the latter abund. between 2400 and 2500, and below 3125 to present depth.

Core: No. — Interval \_\_\_\_\_ Feet Cut \_\_\_\_\_ Rec. \_\_\_\_\_ Core Diam. \_\_\_\_\_

Description \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DST No. — Interval \_\_\_\_\_ ISI \_\_\_\_\_ FLOW \_\_\_\_\_ FSI \_\_\_\_\_

IHP \_\_\_\_\_ ISIP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FSIP \_\_\_\_\_ FHP \_\_\_\_\_

BHT \_\_\_\_\_ Chokes: BH \_\_\_\_\_ Surface: \_\_\_\_\_ Rec. \_\_\_\_\_

Remarks Rotating characteristic at ~~3217~~ <sup>3217</sup> suggested possible locked cone; while circulating prior to pulling out, experienced partial L.C., esp. probably into sandstones drilled below 3125. Experienced difficulties w/ formation on returning to bottom; surging mud flow. Started mixing first LC material (MICA-<sup>2</sup>) at 6:45 AM. By 8 AM, had mixed and pumped down 40 bags gel and 25 bags mica<sup>2</sup> without result.

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 9 Date 10 FEB 65  
 Depth at 8.00 a.m. 3217 Operation at 8.00 a.m. Making up mud  
 Hole made in 24 hrs. 0 Hours Rotating 0 Rate —  
 Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L.	C.C.	Coke	p <sup>H</sup>	Sand	Other
	<u>8.9</u>	<u>37</u>						

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	<u>3</u>												<u>T3-B2-1/8</u>
	<u>4</u>	<u>8 3/4</u>	<u>HTC</u>	<u>OS</u>	<u>68233</u>	<u>3217</u>							

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks While attempting to overcome l.c. yesterday morning, pipe became stuck; pipe was freed by jarring yesterday evening. Pipe was pulled out for bit change, and re-run to near bottom for mud-conditioning operation.

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 10 Date 11 FEB 65

Depth at 8.00 a.m. 3370 Operation at 8.00 a.m. Drilling

Hole made in 24 hrs. 143' Hours Rotating 2 Rate av. 1 min/ft.

Drilling Wt. 5-10 R.P.M. 120 Pump Press 700

MUD	Wt/S.G.	Vis.	Sec W.L.	C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.1	55	6	2/32	7-8	-	-	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	4	8 3/4	HTC	OS C3	68233	3217	( ) ( ) ( )			5-10	120	700	RUN

SURVEY —

Lithology 100% Coal

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Made up new mud supply and circulated out  
cuttings and cuttings yesterday PM; on gradually working bit  
downward, h.c. was in. experienced on reaching <sup>3185</sup> bottom (6 PM)  
Pulled up to 2875 to condition mud. Started drilling below  
3217 at 6 AM today. Formation: Coal.

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 11 Date 12 FEB 65  
 Depth at 8.00 a.m. 3814 Operation at 8.00 a.m. Drilling  
 Hole made in 24 hrs. 444' Hours Rotating 14 3/4 Rate av. 30'/hr.  
 Drilling Wt. 10/15 R.P.M. 120 Pump Press 700

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.3	56	4.4	2/32	9	-	-

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	4	8 3/4	HTC	OS C3	68233	3214	3762	545	15 1/2	10-15	120	700	T3-B2-1/8
	5	8 3/4	HTC	OS C3	6949	3762	(3814)	(51)	(1 1/2)	15-10	120	700	RUN

SURVEY 3765', 1 1/4°

Lithology Coals with associated (interbedded) very coarse  
 clean, unconsolidated rounded-grain sandstones.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks —

COMPANY

WOODSIDE

Form 5

## DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 12 Date 13 FEB 65  
 Depth at 8.00 a.m. 3948 Operation at 8.00 a.m. laying down core barrel  
 Hole made in 24 hrs. 134' Hours Rotating 9<sup>3</sup>/<sub>4</sub> Rate 1-2 min/ft.  
 Drilling Wt. 10 R.P.M. 120 Pump Press 750

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.2	52	6.2	2/32	8.5	—	—	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	5	8 <sup>3</sup> / <sub>4</sub>	HTC	OS	6949	3762	3930	168	9 <sup>3</sup> / <sub>4</sub>	10	120	750	T2-BI-0
CB-1	1-6	6 <sup>1</sup> / <sub>8</sub>	C	DIA	CD 72	3930	3948	18	3 <sup>1</sup> / <sub>2</sub>	8	60-80	600	100% DESTROYED

SURVEY 3763', #74 1<sup>1</sup>/<sub>4</sub>°

Lithology Continued Coal measures; coals associated with associated very coarse poorly cemented sandstone congl. Core 1 rec. 4" gty sand congl, rounded components up to 2<sup>1</sup>/<sub>2</sub>" across, all poorly-cemented in silty, non-cal. matrix.  
 Core: No. 1 Interval 3930-48 Feet Cut 18 Rec. 4" Core Diam. 3<sup>1</sup>/<sub>2</sub>"

Description Recovered one lump of siliceous sand-pebble-cobble conglomerate; light coloured rounded milky-colourless-smoky siliceous components in a weak, clayey-silty matrix non-cal.

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Core no. 1 diamond bit completely buried away and destroyed, probably by working and rolling siliceous pebbles and cobbles from the conglomerate. Now laying down core barrel, preparing to go in hole with bit no. 7 to ream rat hole.

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 13 Date 14 FEB 65  
 Depth at 8.00 a.m. 3957 Operation at 8.00 a.m. Pulling Core No. 2  
 Hole made in 24 hrs. 9 Hours Rotating 3 Rate —  
 Drilling Wt. 65 R.P.M. 40 Pump Press 600

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	pH	Sand	Other
	9.1	55	6-8	—	8	—	—	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	6	8 3/4	HTC	OSC3	69116	3948	50	2	.1	10	120	800	T1-B1-0
	CBA	8 3/4	HTC	J. BLADE	—	3950	3957	7	1	65	40	600	—

SURVEY —

Lithology COAL AND V. COARSE SANDSTONES.

Core: No. 2 Interval 3950 - 57 Feet Cut 7 Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks "LC" experienced during coring, probably  
resulting from blocked CB.  
On pulling out core barrel, lower hole  
dragging considerably; hole may be in  
deteriorating condition.

DAILY DRILLING REPORT

WELL W. Seaspray No. 2 Report No. 14 Date 15 Feb 65

Depth at 8.00 a.m. 3957 Operation at 8.00 a.m. Clearing Hole, conditioning hole.

Hole made in 24 hrs. 0 Hours Rotating — Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	pH	Sand	Other
	9.1	90	6.2	2/32	8.5	—	—

BITS	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
	6RR	8 3/4	HIC	OS	69116	3957	—	—	—	—	—	—	RUN

SURVEY nil.

Lithology Continued Coals and conglomerates

Core: No. 2 Interval 3950-57 Feet Cut 7 Rec. 3' Core Diam. —

Description lowermost 1", Conglomerate, rounded silic pebbles up to 1/2" dia, tzt, poorly sorted; remainder of core, Coal: dull brown-black, blocky, w. light specific gravity.

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks LC experienced (on running pipe after core No. 2) at the 3200-foot level (sd. congl. of previous LC occasion). Most of 14th PM & night spent making up mud and conditioning hole w/ bit at approx. 2800'. Since about midnight, rapid hole deterioration has required pulling pipe up above the coal section, and will require going deeper by singles, which will consume at least the next 18 hours.



COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 15 Date 16 FEB, 65  
 Depth at 8.00 a.m. 3957 Operation at 8.00 a.m. Clearing hole.  
 Hole made in 24 hrs. 0 Hours Rotating — Rate —  
 Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L.	C.C.	Coke	pH	Sand	Other
	9.1	56	7.2	2/32	9	—	—	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	6RR	8 3/4	HTC	OS C3	69116	3957	—	—	—	—	—	—	Run.

SURVEY nil.

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Reamed to 3100' + in singles; hole bridged. Attempted to circulate at 3000', 2965', 2874', and 2422', nil. Pulled back to 2000' and circulated, conditioning mud including lowering viscosity. Have now run in 5 stands, circulating after each (to 6 AM today); continuing same method.

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 16 Date 17 FEB 65  
 Depth at 8.00 a.m. 4128 Operation at 8.00 a.m. Tripping for bit  
 Hole made in 24 hrs. 171 Hours Rotating 7 1/4 Rate 2 3/4 / mins  
 Drilling Wt. 10 R.P.M. 90 Pump Press 800

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	pH	Sand	Other
	9.1	52	5.6	2/32	9.5	—	—

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	6	8 3/4	HTC	OS C3	69116	3957	4128	171	7 3/4	10	90	800	T2-B2-I

SURVEY

Lithology Continued brown coal with traces coarse loose  
colorless quartz sandstones

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Drilled ahead at 10:30 PM 16<sup>th</sup>; coal measures  
continue to present depth.

COMPANY WOODSIDE

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 17 Date 18 FEB 65  
 Depth at 8.00 a.m. 4340 Operation at 8.00 a.m. Starting Core No. 3  
 Hole made in 24 hrs. 212 Hours Rotating 8 3/4 Rate Av. 2 min/ft.  
 Drilling Wt. 5 R.P.M. 90 Pump Press 850

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	pH	Sand	Other
	9.3	59	6	2/32	9.5	—	—	

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	7	8 3/4	HTC	OS C3	69500	4128	4340	212	8 3/4	5	90	850	TI-B1-I

SURVEY

Lithology Coal, with traces of coarse sandstones; Traces of fine grained to silty, sandstones below 4310 should mark the base of the coal measure section  
*partly clay content*

Core: No. 3 Interval 4340- Feet Cut \_\_\_\_\_ Rec. \_\_\_\_\_ Core Diam. \_\_\_\_\_

Description \_\_\_\_\_

DST No. \_\_\_\_\_ Interval \_\_\_\_\_ ISI \_\_\_\_\_ FLOW \_\_\_\_\_ FSI \_\_\_\_\_

IHP \_\_\_\_\_ ISIP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FSIP \_\_\_\_\_ FHP \_\_\_\_\_

BHT \_\_\_\_\_ Chokes: BH \_\_\_\_\_ Surface: \_\_\_\_\_ Rec. \_\_\_\_\_

Remarks \_\_\_\_\_

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 18 Date 19 FEB 65  
 Depth at 8.00 a.m. 4700 Operation at 8.00 a.m. Drilling  
 Hole made in 24 hrs. 360 Hours Rotating 17 1/4 Rate 30' / hr av.  
 Drilling Wt. 10-15 R.P.M. 90 Pump Press 900

MUD

Wt/S.G.	Vis.	Sec	W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
9.4	57	4.8	2/32	9.5	-	-	

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS CB-3	8 3/4	HTC	BLADE	9510	4340	4352	12	3	6	40	600	OK.
8	8 3/4	HTC	OSC3	68231	4352	4700	<del>12</del> 13 3/4	13 3/4	10-15	90	900	Run.

SURVEY -

Lithology 100% Brown coal below 4352, with traces only of green siltstone and shale, and traces of coarse colorless quartz sands.

Core: No. 3 Interval 4340-52 Feet Cut 12 Rec. 12 Core Diam. 3 1/2

Description Shale = green, firm, carbonaceous, non-calcareous, with abundant silt streaks and laminations. No porous zones, no shales. Dip perhaps 8° to 10°.

DST No. / Interval / ISI / FLOW / FSI /

IHP / ISIP / IFP / FFP / FSIP / FHP /

BHT / Chokes: BH / Surface: / Rec. /

Remarks Shale recovered in core newer significant in quantity in subsequent drill cuttings. Nearly 100% continuous coal cuttings to present depth indicate return to coal formation due to either unexpected <sup>un</sup>thickening, or to faulting with repeated section (??)

COMPANY WOODSIDE

Form 5

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 19 Date 20 FEB 65

Depth at 8.00 a.m. 4909 Operation at 8.00 a.m. Repairing No. 1 Pump.

Hole made in 24 hrs. 209 Hours Rotating 10 3/4 Rate av. 2 min/ft.

Drilling Wt. 15-20 R.P.M. 90 Pump Press. 900

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.6	56	5.2	2/32	9	-	-

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	8	8 3/4	HTC	OS C3	68231	4352	4749	397	16	10-15	90	900	T2-B2-I
	9	8 3/4	HTC	OS C3	69488	4749	(4909)(160)	(8 1/2)		15-20	90	900	(Runs)

SURVEY 4740', 3/4°

Lithology Coals: brown-black, dull luster, blocky; assoc. w/ minor coarse poorly-sorted quartz sandstones and traces green siltstone.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks —

COMPANY Woodside

Form 5

DAILY DRILLING REPORT

WELL W. Seaspray No. 2 Report No. 20 Date 21 Feb 65

Depth at 8.00 a.m. 5074 Operation at 8.00 a.m. Installing new vit. indicator

Hole made in 24 hrs. 1165' Hours Rotating 8 Rate av. 2 MIN/FT.

Drilling Wt. 20 R.P.M. 90 Pump Press 900

MUD	Wt/S.G.	Vis.	Sec W.L:	C.C.	Coke	pH	Sand	Other
	9.7	50	5.8	2/32	9	—	—	

BITS	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
	9	8 3/4	HTC	OS	69488	4749	5074	325	16 3/4	20	90	900	T2-B2-I
	10												

SURVEY —

Lithology Continued brown coal with variable minor quantities of coarse sandstones and siltstones.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks —

Please send several pads of Form 5.

COMPANY Woodside

Form 5

DAILY DRILLING REPORT

WELL W. Seaspray No. 2 Report No. 21 Date 22 February 65  
 Depth at 8.00 a.m. 5294 Operation at 8.00 a.m. Completing trip for bit.  
 Hole made in 24 hrs. 220' Hours Rotating 13 Rate 2 min/ft. av  
 Drilling Wt. 20 R.P.M. 90 Pump Press 900

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	9.5	51	5.2	2/32	9.5	—	—

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	10	8 <sup>3</sup> / <sub>4</sub>	HTC	OS C3	68235	5074	5294	220	13	20	90	900	TI-BI-I
	11	8 <sup>3</sup> / <sub>4</sub>	HTC	OS C3	69115	5294	—	—	—	—	—	—	Run

SURVEY

Lithology Coal assoc. w/ minor coarse and fine greenish sandstones and siltstones.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks —

COMPANY Woodside

Form 5

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 22 Date 23 Feb-65  
 Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Running Overshot  
 Hole made in 24 hrs. 64 Hours Rotating 8 1/4 Rate Av. 4 min/ft.  
 Drilling Wt. 15 R.P.M. 100 Pump Press 1000

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	pH	Sand	Other
	9.8	53	5.6	2/32	8.5	—	—

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	11	8 3/4	HTC	OS	69115	5294	5358	64	8 1/4	15	100	1000	

SURVEY 5290 1/2°

Lithology no change; Coals w/ minor associated coarse  
loose sand grains

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Chemicals added in last 24 hours: NIL.

RPM run away and rig jolt at 8PM last night indicated (to driller) twist off; erratic wt. indicator prevented proving this, despite very rough continued rotation; WI worked on by TP who felt there was no twist off; Circulated 2 hrs, started out for E. Logo, determined twist off at about 3200 (2 AM).



COMPANY Woodside

Form 5

DAILY DRILLING REPORT

WELL Seaspray No. 2 Report No. 23 Date 24 Feb 65

Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. (Fishing) Pulling out overshot.

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD	Wt/S.G.	Vis.	Sec W.L:C.C.	Coke	p <sup>H</sup>	Sand	Other
	—	50	—	—	—	—	—

BIT	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
—													

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface: — Rec. —

Remarks Raw overshot to top of fish (3187), but unable to grab hold; ran one joint 7 7/8" washover string w/ raw tooth shoe, but unable to pass over fish; ran overshot w/ Service milling shoe and held up at 3030', circulated down to top of fish, and 3' over top of fish.

24 Hour Chemicals: gel <sup>1500#</sup> 30, Unical 7, <sup>350# Cellucol</sup> Cellucol 1/2 box (22#)

DAILY DRILLING REPORT

WELL N. Seaspay No 2 Report No. 24 Date 25 Feb 65  
 Depth at 8.00 a.m. 535' Operation at 8.00 a.m. Fishing, pulling tools  
 Hole made in 24 hrs. 0 Hours Rotating — Rate —  
 Drilling Wt. — R.P.M. — Pump Press. —

MUD

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
—	—	—	—	—	—	—

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS 11	—	—	—	—	(5294	5358)	—	—	—	—	—	—

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Ran milling shoe on 7 7/8" American overshot failed to grapple fish; pulled out and ran impression block which showed fish to have large spike on upper end; pulled out and ran American overshot with wall hook, pulling same at 8AM after failing to connect with fish.

DAILY DRILLING REPORT

WELL En. Seaspray No. 2 Report No. ~~24~~ 25 Date 26 Feb 65  
 Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Cleaning up hole - mixing mud  
 Hole made in 24 hrs. 0 Hours Rotating 0 Rate —  
 Drilling Wt. — R.P.M. — Pump Press. —

MUD

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
—	50	—	—	—	—	—

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
11RR	8 3/4	HTC	OS C3	69115	5358	—	—	—	—	—	—	Run
11	8 3/4	HTC	OS C3	69115	5294	5358	64	84	15	100	1000	1-1-I

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Raw overshot with mill guide shoe picking up fish yesterday afternoon; all of fish out of hole by 8:30 PM. Cleaned mud tanks. Ran back in hole with bit (no. 11RR), now making up mud with bit at 3180, hole to be cleared to bottom for electric surveys  
Chem's Caustic 140 Gel 30 Unical 7 CMC 66 LBS.  
(24 HRS) (150 LBS) (350 LBS)

COMPANY Woodside

DAILY DRILLING REPORT

WELL N. Seaspay No. 2 Report No. 26 Date 27 Feb 65  
 Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. W. Schlumberger, Circulating  
 Hole made in 24 hrs. 0 Hours Rotating 1 Rate —  
 Drilling Wt. 15000 R.P.M. 90 Pump Press. 900

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
9.2	56	5.2	2/32	9.5	—	—

MUD

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
11RR	8 3/4	HTC	OS C3	69115	5294	5358	64	9 1/4	15	90	900	Run.

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Cleaned hole to bottom (5358) with Bit 11RR, flushing out great quantities of large coal chunks; attempted to drill ahead at 2:45 PM Friday, but could not get bit past 5358, apparently due to junk in hole. Conditioned hole, awaiting arrival of E. log. equipment (due here 8 hours ago.)

24 How Chemicals: gel 132 sacks, CMC 28 lbs, Unical 7 bags, Caustic 420 lbs.

DAILY DRILLING REPORT

WELL h. Seaspray No 2 Report No. 27 Date 28 Feb 65  
 Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Circulating  
 Hole made in 24 hrs. 0 Hours Rotating 0 Rate —  
 Drilling Wt. — R.P.M. — Pump Press. —

	Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
MUD	9.3	68	5.2	2/32	9.5	—	—

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	11RR												

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Circ. at 5358 TD until 8:30 AM Sat; started E.S. sonde down, unable to lower beyond 3047; ran pipe back to bottom (no bridge at 3047), reamed 70' to bottom, circulated, pulled out by 10:30 PM; ran E.S. sonde again and encountered same difficulty (sonde run with ~~no~~ weight bar). Suspended logging attempts at 11:30 PM, ran pipe back in hole, built mud vis. up to 65+, ran Totco to determine deviations at 2800', 3050'; 24 hr Chemo: Gel 34, Caustic 140

DAILY DRILLING REPORT

WELL N. SEASPRAY No. 2 Report No. 28 Date 1 March 65

Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Circ. thru open DP at 5008'

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press. —

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
<u>9.3</u>	<u>68</u>	<u>5.2</u>	<u>2/32</u>	<u>9.5</u>	<u>—</u>	<u>—</u>

MUD

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
<u>—</u>												

SURVEY 3050 and 2800', 2° w/ uncentralized tool.

Lithology — From E.S. log: Base of L.V. Coal Measures is 4000'; portion of Mesozoic Streylecki fm. <sup>underlying</sup> underlying coal measures appears to be the No. 1 N. Seaspray drilled level of 4515', i.e., truncated graywacke.

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Raw Tatco tool at 3050' and 2800', both showing 2° deviation; circulated hole clean, pulled out, ran E.S. tool again which was blocked at 3050'; made up and ran SWC tool which also failed to pass 3050'; fired one shot in hope of recoiling tool into hole; failed (recovered one coal sample); pulled out, ran open ended DP to 3700' and dropped through small diameter E.S. tool, reaching STD 5330; hole logged 5330-3700, 3050-824. 24 Hour chemicals: NIL

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 29 Date 2 March 65

Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Cleaning hole w/ mill tool.

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

	Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
MUD	9.3	55	5.2	2/32	7	—	—

	No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	—												

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Extended open ended DP string to bottom of hole (5358), circulated, pulled out, made up straddle-packer DST tool to test the interval 4770-4825; was unable to run tool to bottom due to packer hangup at 3307 (bottom end depth of lower packer). Pulled out, ran Kinsback mill to clean out hole at the 3000 - 3300 foot level, and between 3800' and bottom.

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 29 Date 2 March 65

Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Cleaning hole w/ mill tool.

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
<u>9.3</u>	<u>55</u>	<u>5.2</u>	<u>2/32</u>	<u>7</u>	<u>—</u>	<u>—</u>

BITS

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
<u>—</u>												

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Extended open ended DP string to bottom of hole (5358), circulated, pulled out, made up straddle-packer DST tool to test the interval 4770-4825; was unable to run tool to bottom due to packer hangup at 3307 (bottom end depth of lower packer). Pulled out, ran Kinsback mill to clean out hole at the 3000 - 3300 foot levels, and between 3800' and bottom.



COMPANY Woodside

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 30 Date 3 March 65

Depth at 8.00 a.m. 5358 Operation at 8.00 a.m. Pulling out D.P.

Hole made in 24 hrs. 0 Hours Rotating 0 Rate —

Drilling Wt. — R.P.M. — Pump Press —

MUD

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
9.6	88	5.2	2/32	9		

BITS

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
11												

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Reamed and cleaned to bottom w/ Kinsback mill tool, pulled out with difficulty, ran bit and circulated, now pulling out and circulating by stages, hole condition appearing poor. Will attempt to run micro-caliper electric survey today.

24 hour chemicals: Gel 1250 lbs, Caustic 140#, CMC 66#

DAILY DRILLING REPORT

WELL N. Seaspray No. 2 Report No. 31 (final) Date 4 March 65  
 Depth at 8.00 a.m. 5350 Operation at 8.00 a.m. Abandoning well  
 Hole made in 24 hrs. — Hours Rotating — Rate —  
 Drilling Wt. — R.P.M. — Pump Press. —

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other
MUD						

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
11ER												T1-B1-I

SURVEY —  
 Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —  
 Description —

DST No. — Interval — ISI — FLOW — FSI —  
 IHP — ISIP — IFP — FFP — FSIP — FHP —  
 BHT — Chokes: BH — Surface — Rec. —

Remarks Attempted to run Schlumberger micro-caliper log, could not lower below 3080; pulled out sonde, made up DST Tool for test of 4770-4852 interval, but could not get lowermost part of string below about 3200; pulled out, ran bit to condition mud; Placed cement plugs as follows: 3100-3225 w/ 35 sap, 2060-2160 w/ 35 sap, 750-850 w/ 45 sap. Now preparing to lay down DCS and Pipe. 24Hr chemo: ~~3~~ N12.

DAILY DRILLING REPORT

WELL N Seaspray No. 2 Report No. 31 (final) Date 4 March 65

Depth at 8.00 a.m. 5355 Operation at 8.00 a.m. Abandoning well

Hole made in 24 hrs. — Hours Rotating — Rate —

Drilling Wt. — R.P.M. — Pump Press. —

Wt/S.G.	Vis. Sec.	W.L.:C.C.	Coke	pH	Sand	Other

MUD

No.	Size	Make	Type	Serial	From	To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BIT 11RR												T1-B1-I

SURVEY —

Lithology —

Core: No. — Interval — Feet Cut — Rec. — Core Diam. —

Description —

DST No. — Interval — ISI — FLOW — FSI —

IHP — ISIP — IFP — FFP — FSIP — FHP —

BHT — Chokes: BH — Surface — Rec. —

Remarks Attempted to run Schlumberger micro-caliper log, could not lower below 3080; pulled out sonde, made up DST Tool for test of 4770-4852 interval, but could not get lowermost part of string below about 3200; pulled out, run bit to condition <sup>to 5000</sup> mud; placed cement plugs as follows: 3100-3225 w/ 3.5 sac, 2060-2160 w/ 3.5 sac, 750-850 w/ 4.5 sac. Now preparing to lay down DCA and Pipe. 24Hr chem: ~~9~~ NIL

Company WoodsideReport No. 1

## WEEKLY FIELD REPORT

## GEOLOGICAL SUMMARY

Well Name & No. N. Seaspray No. 2 Week Ended Sat. Midnight 6 February, 1965Location PPL 160, Victoria; 38°18'7"S., 147°12'20"E.Elevation \_\_\_\_\_ K.B. NOT KNOWN Ground NOT KNOWNDepth Saturday Midnight 880 Footage for week: 880

## GEOLOGICAL MARKERS

Formation or Horizon	Samples		E-Log	
	Depth	Subsea	Depth	Subsea
<u>QUAT.</u>	<u>SURF TO 110</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>L.W./H.R. GRAVELS</u>	<u>110</u>			
<u>JEMMY'S PT. FM</u>	<u>275 (?)</u>			
<u>TAMBO FM</u>	<u>560 (?)</u>			
<u>GIPPSLAND LS.</u>	<u>640 (?)</u>			

CORING NONE

Type \_\_\_\_\_ Size \_\_\_\_\_

Core No.      Formation      Interval      Recovery      Description (brief)

Core No.	Formation	Interval	Recovery	Description (brief)

DRILL STEM TESTS NONE

DST. No.      Formation      Interval      Recovery

DST. No.	Formation	Interval	Recovery

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ Tally Depth \_\_\_\_\_

Wellsite Geologist: James C. Pennington

34

Company WOODSIDE

Report No. 2

WEEKLY FIELD REPORT

GEOLOGICAL SUMMARY

Well Name & No. N. SEASPRAY No. 2 Week Ended Sat. Midnight 13 FEB 1965

Location PPL 160 VICTORIA ; 38°18' 7" S, 147°12' 20" E

Elevation \_\_\_\_\_ K.B. \_\_\_\_\_ Ground \_\_\_\_\_

Depth Saturday Midnight 3950 Footage for week: 3070

GEOLOGICAL MARKERS

Formation or Horizon	Depth	Samples	Subsea	Depth	E-Log	Subsea
<u>Wairakei Coal Measures</u>	<u>2060</u>		<u>-</u>			

CORING

Type No. 1 diamond, No. 2 blade Size 6 1/8 diamond, 8 3/4 blade

Core No.	Formation	Interval	Recovery	Description (brief)
<u>1</u>	<u>Wairakei CM</u>	<u>3930-47</u>	<u>4"</u>	<u>Silic sd. conglomerate</u>
<u>2</u>	<u>(for next week's report)</u>			

DRILL STEM TESTS None.

DST. No.	Formation	Interval	Recovery

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ Tally Depth \_\_\_\_\_

Wellsite Geologist: James C. Pennington

Company WOODSIDEReport No. 3

## WEEKLY FIELD REPORT

## GEOLOGICAL SUMMARY

Well Name & No. N. Seaspray No. 2 Week Ended Sat. Midnight 20 Feb., 1965 1965Location PPL 160, VictoriaElevation \_\_\_\_\_ K.B. ? Ground ?Depth Saturday Midnight 5074' Footage for week: 1174'

## GEOLOGICAL MARKERS

Formation or Horizon

Samples

E-Log

Depth

Subsea

Depth

Subsea

(No reliable markers since top of L.V. coal measures at 2060')

## CORING

Type Conventional Size 8 3/4" HTC ↓ Blade bit

Core No.	Formation	Interval	Recovery	Description (brief)
<u>2</u>	<u>Latroue Valley CM</u>	<u>3950-57</u>	<u>3'</u>	<u>Coal w/ congl. at base.</u>
<u>3</u>	<u>? pre-Tertiary ?</u>	<u>4340-52</u>	<u>12'</u>	<u>Green silty, carbonac. sh.</u>

DRILL STEM TESTS None

DST. No.	Formation	Interval	Recovery

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ Tally Depth \_\_\_\_\_

Wellsite Geologist: James C. Penman

Company Woodside

Report No. H

WEEKLY FIELD REPORT

GEOLOGICAL SUMMARY

Well Name & No. M. Seaspray No. 2 Week Ended Sat. Midnight 27 February, 1965

Location PPL 160, Gippsland, Victoria

Elevation \_\_\_\_\_ K.B. 88' (Est) Ground 77' (Est)

Depth Saturday Midnight 5358 Footage for week: 284'

GEOLOGICAL MARKERS

Formation or Horizon	Samples		E-Log	
	Depth	Subsea	Depth	Subsea
<u>Lakes Entrance Inv.</u>	<u>-</u>	<u>-</u>	<u>1860 (?)</u>	<u>-1783 (?)</u>
<u>Latrobe Valley CM.</u>			<u>2120</u>	<u>-2043</u>

CORING None

Type \_\_\_\_\_ Size \_\_\_\_\_

Core No.	Formation	Interval	Recovery	Description (brief)

DRILL STEM TESTS None

DST. No.	Formation	Interval	Recovery

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ Tally Depth \_\_\_\_\_

Wellsite Geologist: James C. Benymant

Company Woodside

Report No. 5

WEEKLY FIELD REPORT

GEOLOGICAL SUMMARY

Well Name & No. W. Seaspray No. 2 Week Ended Sat. Midnight 6 March 65 196

Location PPL 160, Gippsland, Victoria

Elevation \_\_\_\_\_ K.B. 88' (est.) Ground 77' (est.)

Depth Saturday Midnight \_\_\_\_\_ Footage for week: \_\_\_\_\_

GEOLOGICAL MARKERS

Formation or Horizon	Samples		E-Log	
	Depth	Subsea	Depth	Subsea
<u>Tert/Mesozoic</u>	<u>—</u>	<u>—</u>	<u>4000</u>	<u><del>3923</del> - 3912</u>

CORING None

Type \_\_\_\_\_ Size \_\_\_\_\_

Core No.	Formation	Interval	Recovery	Description (brief)

DRILL STEM TESTS None

DST. No.	Formation	Interval	Recovery

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ Tally Depth \_\_\_\_\_

Wellsite Geologist: James C. Thompson













Company WoodsideReport No. 2

## MUD AND ADDITIVES REPORT

Well Name: H. Seaspray No. 2 Week ended Saturday midnight 13 Feb, 1965

Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

Date	# GEL	# CAUSTIC	# BICARB	# LO- VIS	BAGS MICA- LOK	# UNI- CAL	# MIL- CON	# SUPER- COL	# CELLU- COL						
Sun. 7	—	—	500	#	—	—	—	—	—						
Mon. 8	500	—	—	350	—	—	—	—	—						
Tue. 9	6000	—	—	—	36	—	—	—	—						
Wed. 10	2450	410	—	—	—	3650	1150	APPROX 5000	—						
Thur. 11	1800	450	—	—	—	1100	700	2900	88						
Fri. 12	1750	142	—	—	—	500	300	—	—						
Sat. 13	—	—	—	—	—	—	—	—	—						
TOTAL FOR PERIOD	12,500	1002	500	350	36	5250	2150	7900	88						
Balance Forward	6900	50	0	0	0	0	0	0	0						
Acc. Total	19,400	1052	500	350	36	5250	2150	7900	88						

Company WOODSIDEReport No. 3MUD AND ADDITIVES REPORTWell Name: N. Soap Spray No. 2Week ended Saturday midnight 20 February, 1965 196

Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

Date	# Gel	(140#/drum) # Caustic	# Bicarb	# LO- VIS	BAGS MICA- LOX	# UNI- CAL	# MIL- CON	# SUPER- COL	44#/Box # CMC CELLU- COL						
Sun. 14	4000	140	—	—	—	—	—	—	44						
Mon. 15	5600	420	—	—	—	—	—	—	132						
Tue. 16	1000	560	—	—	—	2250	750	—	—						
Wed. 17	1000	280	—	—	—	1000	—	600	—						
Thur. 18	—	140	—	—	—	1000	500	600	—						
Fri. 19	—	140	—	—	—	900	—	900	—						
Sat. 20	—	140	—	—	—	350	—	350	—						
TOTAL FOR PERIOD	11,600	1,820	—	—	—	5500	1250	2450	176						
Balance Forward	19,400	1,052	500	350	36	5250	2150	?	88						
Acc. Total	31,000	2,872	500	350	36	10,750	3,400	10,350	264						

Company WoodsideReport No. 4MUD AND ADDITIVES REPORTWell Name: W. Seaspray No. 2 Week ended Saturday midnight 27 February 1965

Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

Date	# Gel	(140/drum) # Cariste	# Bicarb	# Lo- VIS	BAGS MICA- LOX	# UNI CAL	# MIL- CON	# SUPER COL	(44/box) # CELLU- COL (C.M.C.)						
Sun. 21	1000 1000	140	—	—	—	1000	1000	—	—						
Mon. 22	—	—	—	—	—	—	—	—	—						
Tue. 23	1500	—	—	—	—	350	—	—	22						
Wed. 24	650	—	—	—	—	—	—	—	—						
Thur 25	—	140	—	—	—	—	—	—	—						
Fri. 26	6600	420	—	—	—	350	—	—	88 66						
Sat. 27	1000	140	—	—	—	—	—	—	—						
TOTAL FOR PERIOD	11,650	840	—	—	—	1,700	1000	—	110						
Balance Forward	31,000	2,872	500	350	36	10,750	3,400	10,350	264						
Acc. Total	42,650	3,712 <del>4,152</del>	500	350	36	12,450	4,400	10,350	374 <del>264</del>						



Company WoodsideReport No. 5MUD AND ADDITIVES REPORTWell Name: V. Searray No. 2 Week ended Saturday midnight 6 March 1965

Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

Date	# Gel	# Cosmetic	# Recarb	# Lo- Vis	BABS MICA- LOX	# UNI- CAL	# MIL- CON	# SUPER COL	22/4/1 # CELLU- COL (CMC)						
LEB Sun. 28	700	—	—	—	—	—	—	—	—						
MARCH Mon. 1	—	—	—	—	—	—	—	—	—						
Tue. 2	<del>1250</del>	<del>440</del>	—	—	—	—	—	—	<del>66</del>						
Wed. 3	1250	140	—	—	—	—	—	—	66						
Thur. 4	—	—	—	—	—	—	—	—	—	Abandoning well					
Fri. 5															
Sat. 6															
TOTAL FOR PERIOD	1950 <del>42650</del>	140 <del>3712</del>	— <del>500</del>	—	—	—	—	—	66						
Balance Forward	42,650	3,712	500	350	36	12450	4400	10350	374						
Acc. Total	44,600	3,852	500	350	36	12450	4400	10250	440	(Final figures)					



## TIME ANALYSIS

Report No. 2

(Rig Up &amp; Teardown Time Not Included)

Well Name: N. SEASPRAY No.2 Drilling Contractor: READING & BATES Rig: 1Hours worked during week ended Saturday midnight: ~~4~~ 13 FEB, 1965

Date		FEB 65:	7	8	9	10	11	12	13	Total	B/Fwd.	Acc. Total
			Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.			
Drilling	a	On Bottom	22 1/4	13 1/4	6		15 1/2	5	2	64	16 1/2	80 1/2
	b	Trips		2 1/2	2	2 3/4	1	5	3	16 1/4	6	6
Coring	a	On Bottom						1/4	5	5 1/4	-	5 1/4
	b	Trips						2 3/4	2 1/4	5	-	5
Conditioning Hole	a	Drilling								-	-	-
	b	Other		4 1/4	1 3/4	2 1/4	7	5 1/2	2 1/4	42	11 1/4	53 1/4
Deviation Surveys			#	1/4			1/4			1/2	1	1 1/2
Rig Service			1 1/2	1/2	1/2		1/4	5 1/2	9 1/2	17 3/4	5 1/4	23
Breakdown Time				3 1/4						3 1/4	3 1/4	6 1/2
Testing										-	-	-
Fishing										-	-	-
Logging										-	-	-
Casing, W.O.C's, etc.			1/4							1/4	63	63 1/4
Completion / Abandonment										-	-	-
STANDRY										-	6	6
WAITING ON WTR PUMP.										-	4 3/4	4 3/4
WORKING STUCK PIPE					13 3/4					13 3/4	-	13 3/4
Total			24	24	24	24	24	24	24			

## TIME ANALYSIS

Report No. 3

(Rig Up &amp; Teardown Time Not Included)

Well Name: N. SEASPRAY No. 2 Drilling Contractor: Reading & Bates Rig: 1Hours worked during week ended Saturday midnight: 20 FEB 1965

Date		FEB 65	14	15	16	17	18	19	20	Total	B/Fwd.	Acc. Total
			Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.			
Drilling	a	On Bottom			1 1/2	13 1/2	6 1/4	15 3/4	11	58	80 1/2	138 1/2
	b	Trips	3 1/2			4 3/4	5	5 1/4	1 1/4	19 3/4	6	25 3/4
Coring	a	On Bottom	1				3			4	5 1/4	9 1/4
	b	Trips	6				5 1/2			11 1/2	5	16 1/2
Conditioning Hole	a	Drilling								-	-	-
	b	Other	11 1/4	23 1/2	22	1/2	2 1/4	2 1/4		61 3/4	53 1/4	115
Deviation Surveys							1/2	1/4		3/4	1 1/2	2 1/4
Rig Service			1	1/4		1/2	1 1/2	1/2	2 1/2	6 1/4	23	29 1/4
Breakdown Time			1 1/4	1/4	1/2	4 3/4			9 1/4	16	6 1/2	22 1/2
Testing										-	-	-
Fishing										-	-	-
Logging										-	-	-
Casing, W.O.C's, etc.										-	63 1/4	63 1/4
Completion / Abandonment										-	-	-
Standby										-	6	6
Waiting on Water Pump										-	4 3/4	4 3/4
Working stuck pipe										-	13 3/4	13 3/4
Total			24	24	24	24	24	24	24			

## TIME ANALYSIS

Report No. 41

(Rig Up &amp; Teardown Time Not Included)

Well Name: H. Seaspray No. 2 Drilling Contractor: Reading E. Bates Rig: 1  
 Hours worked during week ended Saturday midnight: 27 February, 1965

Date		FEB 65	21	22	23	24	25	26	27	Total	B/Fwd.	Acc. Total
			Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.			
Drilling	a	On Bottom	5 3/4	10 1/4	7 3/4			1		24 3/4	138 1/2	1163 1/4
	b	Trips	8	9				3 1/2	6 3/4	27 1/4	25 3/4	53
Coring	a	On Bottom								—	9 1/4	9 1/4
	b	Trips								—	16 1/2	16 1/2
Conditioning Hole	a	Drilling								—	—	—
	b	Other		2 1/2	1/4			19	10 1/4	32	115	147
Deviation Surveys				1/4						1/4	2 1/4	2 1/2
Rig Service			3/4	1/4	1/4	1/4	1/4	1/2		2 1/4	29 1/4	31 1/2
Breakdown Time			9 1/2	1 3/4	4	1/2	3 1/4			16 1/2	22 1/2	39
Testing										—	—	—
Fishing & making up fish tools					11 3/4	22 1/4	22			68	—	68
Logging									7	7	—	7
Casing, W.O.C's, etc.										—	63 1/4	63 1/4
Completion / Abandonment										—	—	—
Standby										—	6	6
Waiting on Water Pump										—	4 3/4	4 3/4
Working stuck pipe										—	13 3/4	13 3/4
Total			24	24	24	24	24	24	24			

## TIME ANALYSIS

Report No. 5

(Rig Up &amp; Teardown Time Not Included)

Well Name: Y. Gaspry No. 2 Drilling Contractor: Reading & Bates Rig: 1Hours worked during week ended Saturday midnight: 6 MARCH, 65. 196

Date		FER 28	MAR. 1	2	3	4	5	6	Total	B/Fwd.	Acc. Total
		Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.			
Drilling	a	On Bottom							-	163 1/4	163 1/4
	b	Trips	5 3/4	5	12 1/4	1 3/4			24 3/4	53	77 3/4
Coring	a	On Bottom							-	9 1/4	9 1/4
	b	Trips							-	16 1/2	16 1/2
Conditioning Hole	a	Drilling	1/2						-	-	-
	b	Other	6 1/2	7 1/2	10 1/4	7 3/4			32 1/2	147	179 1/2
Deviation Surveys		2 1/4							2 1/4	2 1/2	4 3/4
Rig Service				1/2					1/2	31 1/2	32
Breakdown Time		1		1	1				3	39	42
Testing			9 1/2		5				14 1/2	-	14 1/2
Fishing									-	68	68
Logging		5 3/4	2		2 1/2				10 1/4	7	17 1/4
Casing, W.O.C's, etc.									-	63 1/4	63 1/4
Completion / Abandonment					6	24			30	-	30
Standby									-	6	6
Waiting on Wtr Pump									-	4 3/4	4 3/4
Working Stuck Pipe									-	13 3/4	13 3/4
W.O. On. On.		2 1/4							-		
Total		24	24	24	24	24					

Abandoned

Company Woodside

Form 7

Report No. 1DRILLING PROGRESS SUMMARYWell Name & No. N. Seaspray No. 2Week ended Saturday midnight: 6 February

1965

Date	Drilled			Mud Properties						Deviation		Remarks
	Hole Size	From	To	Feet	Wt. lbs/gal	Visc. Secs.	W.L. c.c.	F/C	p <sup>H</sup>	Depth	Deg <sup>o</sup>	
<u>FEB. 65</u>												
1												
2	12 1/4	Surf	630	(590) 630	—	—	—	—	—	625 127	1/2°	Spud 4:30 AM 2 <sup>nd</sup> .
3	12 1/4	630	<del>880</del>	<del>880</del> 250	—	—	—	—	—	880	1/2°	Drilling & Run casing
4	12 1/4	880	880	0	—	30- 35	—	—	—	—	—	Circ & Run casing
5	12 1/4	880	880	0	—	—	—	—	—	—	—	WOC
6	12 1/4	880	880	0	—	—	—	—	—	—	—	Rigging WH press. lines etc.

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ ft. Tally depth \_\_\_\_\_ ft. Correct \_\_\_\_\_ ft.

Casing: \_\_\_\_\_

Notes:

Company Woodside

Form 7

Report No. 2

## DRILLING PROGRESS SUMMARY

Well Name & No. M. Seaspray No. 2Week ended Saturday midnight: 13 Feb.196 5

Date	Hole Size	Drilled			Mud Properties						Deviation		Remarks
		From	To	Feet	Wt. lbs/gal	Visc. Secs.	W.L. c.c.	F/C	p <sup>H</sup>	Depth	Deg <sup>o</sup>		
<u>FEB</u> 7	<u>8 3/4</u>	<u>880</u>	<u>2043</u>	<u>1163</u>	<u>9.5</u>	<u>40-60</u>	<u>25+</u>	<u>2/32</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
8	8 3/4	2043	2933	890	9.2	30-40	25+	2/32	-				Drilling
9	8 3/4	2933	3217	284	9.5	39	25+	2/32	9			2124	3/4° Drilling
10	8 3/4	3217	3217	0	8.9-9.1	37-52	7.6	2/32	6-8				Drilling, L.C. Stuck Pipe
11	8 3/4	3217	3762	545	9.3	56	4.4	2/32	9			3765	1 1/4° L.C., MIX. MUD, COND. HOLE.
12	8 3/4	3762	3930	168	9.2	52	6.2	2/32	8.5				Drilling, mixing mud.
13	8 3/4	3930	3950	20	9.1	55	6.8	-	8				Drilling, prepare for Core Coring & Reaming.

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ ft. Tally depth \_\_\_\_\_ ft. Correct \_\_\_\_\_ ft.

Casing: \_\_\_\_\_

Notes: \_\_\_\_\_



Company Woodside

Form 7

Report No. 3DRILLING PROGRESS SUMMARYWell Name & No. N. Seaspray No. 2Week ended Saturday midnight: 20 Feb., 1965 196

Date FEB	Hole Size	Drilled			Mud Properties					Deviation		Remarks
		From	To	Feet	Wt. lbs/gal.	Visc. Secs.	W.L. c.c.	F/C	p <sup>H</sup>	Depth	Deg <sup>o</sup>	
14	8 <sup>3</sup> / <sub>4</sub>	3950	3957	7	9.2	51	6.2	2/32	8.5	—	—	CORING, LC, CAVING HOLE.
15	8 <sup>3</sup> / <sub>4</sub>	3957	3957	0	9.0	60-90	7.2	2/32	9	—	—	Conditioning hole.
16	8 <sup>3</sup> / <sub>4</sub>	3957	<del>3990</del> 4122	171	9.1	52	5.6	2/32	9.5	—	—	" " drilling.
17	8 <sup>3</sup> / <sub>4</sub>	<del>3990</del> 4122	4316	188	9.3	59	6	2/32	9.5	—	—	Drilling
18	8 <sup>3</sup> / <sub>4</sub>	4316	4496	180	9.3	50	5.6	2/32	9.5	—	—	Core 3 and drilling
19	8 <sup>3</sup> / <sub>4</sub>	4496	4861	365	9.6	56	5.2	2/32	9	47-10	3/4 <sup>o</sup>	Drilling
20	8 <sup>3</sup> / <sub>4</sub>	4861	5074	<del>213</del> 213	9.7	50	5.8	2/32	9	—	—	Drilling

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ ft. Tally depth \_\_\_\_\_ ft. Correct \_\_\_\_\_ ft.

Casing: \_\_\_\_\_

Notes:

Company Woodside

Form 7

Report No. 4DRILLING PROGRESS SUMMARYWell Name & No. N. Seaspray No. 2Week ended Saturday midnight: 27 February, 1965

Date FEB	Hole Size	Drilled			Mud Properties						Deviation		Remarks
		From	To	Feet	Wt. lbs/gal.	Visc. Secs.	W.L. c.c.	F/C	p <sup>H</sup>	Depth	Deg°		
21	8 <sup>3</sup> / <sub>4</sub>	5074	5283	209	9.5	51	5.2	<sup>2</sup> / <sub>22</sub>	9.5	—	—	Drilling.	
22	8 <sup>3</sup> / <sub>4</sub>	5283	5358	75	9.8	52	5.6	<sup>2</sup> / <sub>22</sub>	8.5	5290	<sup>1</sup> / <sub>2</sub> °	Drilling, twist off.	
23	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	—	50	—	—	—	—	—	Fishing.	
24	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	—	—	—	—	—	—	—	Fishing.	
25	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	—	—	—	—	—	—	—	Fishing (completed)	
26	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	9.2	56	5.2	<sup>2</sup> / <sub>22</sub>	9.5	—	—	Circulating	
27	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	9.2	55	5.2	<sup>2</sup> / <sub>32</sub>	8.5	—	—	Circ, E. Logging Run 1.	

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ ft. Tally depth \_\_\_\_\_ ft. Correct \_\_\_\_\_ ft.

Casing: \_\_\_\_\_

Notes:

Company Woodside

Form 7

Report No. 5

## DRILLING PROGRESS SUMMARY

Well Name & No. H. Seaspray No. 2Week ended Saturday midnight: 6 March196 5

Date	Drilled				Mud Properties						Deviation		Remarks
	Hole Size	From	To	Feet	Wt. lbs/gal.	Visc. Secs.	W.L. c.c.	F/C	pH	Depth	Deg°		
FEB 28	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	9.3	68	5.2	2/22	9.5	30507 28003	2°	Circulating and elec. logging	
MAR. 1	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	9.3	55	5.2	2/22	7	—	—		Circ. attempt DST no. 1
2	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	9.6	88	5.2	2/22	9	—	—	Conditioning Hole	
3	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	—	50	—	—	—	—	—	Unsuccessful log, dis-	
4	8 <sup>3</sup> / <sub>4</sub>	5358	5358	0	—	—	—	—	—	—	—	Abandoning Hole.	
5													
6													

TALLY: Last taken at \_\_\_\_\_ ft. Driller Depth \_\_\_\_\_ ft. Tally depth \_\_\_\_\_ ft. Correct \_\_\_\_\_ ft.

Casing: \_\_\_\_\_

Notes:

MINES DEPARTMENT  
VICTORIA

1.  
Copy

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT Woodside N. Seaspray No. 2 bore on

~~\*Petroleum Exploration Permit~~  
~~\*Petroleum Prospecting Licence~~ } Number ..... 160 ..... during week  
~~\*Petroleum Mineral Lease~~

ending 12 M.V. 5 FEB... 1965...

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
Surface to 90' (BKB)	SS: v. coarse, silty-cemented, clayey
90' - 110'	Clay: gray-black, gummy, sticky,
110' - 275'	SS congl: yellow-gray qtz grains and pebbles, minor gray clays.
275' - 390'	Coquina: shell & bryozoa fragments and minor coarse ss. and gray clays.
390' - 880'	Marl: gray, calc, w/ bryozoa frags. predom; w/ gray clays, occas. ledges sandy tan-gray fossilif v. soft limestones.

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

Water indeterminate; no petroleum or gas encountered.

Signed James C. Poyman  
Legal Manager, Woodside (L.F.) Oil Co.

Date 5 February 1965

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

1.

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT WOODSIDE N. SEASPRAY No. 2 bore on

\*~~Petroleum Exploration Permit~~  
\*~~Petroleum Prospecting Licence~~ } Number ... 160 ..... during week  
\*~~Petroleum Mineral Lease~~ }  
ending 12 MN, 5 FEB ..... 1965.....

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
<u>SURFACE TO 90' (BKB)</u>	<u>SS: V. CRSE, POORLY-CEMENTED, CLAYEY</u>
<u>90' - 110'</u>	<u>CLAY: GRAY-BLACK, GUMMY, STICKY.</u>
<u>110' - 275'</u>	<u>SS. CONGL: YELLOW-GRAY QTZ GRAINS &amp; PEBBLES, MINOR GRAY CLAYS.</u>
<u>275 - 390</u>	<u>COQUINA: SHELL <del>FRAGMENTS</del> BRYZOA FRAGMENTS AND MINOR CRSE SS, GRAY CLAYS.</u>
<u>390 - 880</u>	<u>MARL: GRAY, CALC, BRYZOAL FRAGS PREDOM, W/ GRAY CLAYS, OCCAS. LEDGES SDY TAN-GRAY FOSSILIF. LIMESTONES (V. SOFT).</u>

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

WATER INDETERMINATE; NO PETROLEUM OR GAS  
ENCOUNTERED.

Signed James C. Dwyer  
Legal Manager, Woodside (L.E.) Oil Co.

Date 5 / Feb / 1965

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

2.  
(Copy)

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT Woodside N. Seaspray No. 2 bore on

~~\*Petroleum Exploration Permit~~  
~~\*Petroleum Prospecting Licence~~ } Number 160 during week  
~~\*Petroleum Mineral Lease~~

ending 12.M.N. 12.Feb. 19.65

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
880-2060	Marl; gray, calcareous, fossiliferous, occas. glauconitic, clayey.
2060-3930	Coal measures: predom. coals: brown-black, dull-luster, soft, crumbly and platy, assoc. w/ thick and thin beds of sandstones: very coarse-grained, poorly-cemented, colourless, sub-rounded and pitted quartz grains and pebbles.

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

Water indeterminate; no petroleum or gas encountered to present depth of 3930

Signed James C. Prynne

Legal Manager, Woodside (N.E.) Oil Co.

Date 12 Feb 1965

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

2.

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT WOODSIDE N. S.E. SPRAY No. 2 bore on

~~\*Petroleum Exploration Permit~~  
~~\*Petroleum Prospecting Licence~~ } Number 160.....during week  
~~\*Petroleum Mineral Lease~~

ending 12 MN. 12 FEB, ... 19. 65...

\* Strike out words not applicable. ✓

DEPTH	DESCRIPTION OF STRATA
<u>880-2060</u>	<u>Marl: gray, calcareous, fossiliferous,</u> <u>occas. glauconitic, clayey.</u>
<u>2060-3930</u>	<u>Coal measures: predom. Coals: brown-</u> <u>black, dull-luster, soft, crumbly</u> <u>to platy, assoc. with thick and</u> <u>thin beds of sandstones: very</u> <u>coarse-grained, poorly-cemented,</u> <u>colorless, sub-rounded and pitted</u> <u>quartz grains and pebbles.</u>

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

Water indeterminate; no petroleum or gas  
encountered to present depth, 3930

Signed James C. Dwyer

Legal Manager, Woodside (N.E.) Oil Co.

Date 12.../Feb/65...

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

3/5

3.

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT WOODSIDE OIL N. SEASPRAY NO. 2.... bore on  
 \*Petroleum Exploration Permit)  
 \*Petroleum Prospecting Licence) Number ...160.....during week  
 \*Petroleum Mineral Lease )  
 ending MN. 19/20 FEB. .... 19.65.... (DEPTH 4861)  
 \* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
3930 - 4310	BROWN COAL AND MINOR COARSE CONGL.
4310 - 4352 (?)	SHALE-GREEN-GREY, SILTY, CARBONACEOUS, MICACEOUS, FIRM.
4352(?) - 4861	BROWN COAL WITH TRACES COARSE SANDSTONE AND TRACES GREY SILTSTONE.
[4340 - 4352	CORE #3. DEFINITELY STREZLECKI GROUP (B.J.H.)]

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

NO SHOWS OF OIL OR GAS TO PRESENT DEPTH.

NOTE: THE GREEN SHALE WAS FIRST BELIEVED TO MARK THE BASE OF  
 THE TERTIARY COAL SECTION; HOWEVER, THE CONTINUED COALS  
 DRILLED AFTERWARD INDICATE BIT HAS NOT YET ENTERED PRE-  
 TERTIARY FORMATIONS.

*Erroneous. The abundant brown coal in the cuttings represent cavings. This matter discussed with Mr. PERRY 24.2.65. Woodside had already realized their mistake OK 29.2.65*

DRILLING AHEAD

*discussed with Mr. PERRY 24.2.65. Woodside had already realized their mistake OK 29.2.65*

Signed JAMES C. PERRYMAN

Legal Manager, Woodside (L.E.) Oil Co.

Date 20.../FEB./1965.

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.



MINES DEPARTMENT  
VICTORIA

3.

PETROLEUM ACT 1958 (SECTION 45).

*WOODSIDE OIL N. SEASPRAY No. 2*

RECORD OF WORK AT ..... bore on

\*Petroleum Exploration Permit) *166*  
 \*Petroleum Prospecting Licence) Number ..... during week  
 \*Petroleum Mineral Lease  
*MN 19/20 FEB 65*  
 ending ..... 19..... (*Depth 4861*)

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
<i>3930 - 4310</i>	<i>Brown Coal and minor coarse congl.</i>
<i>4310 - 4352(?)</i>	<i>Shale - green-gray, silty, carbonaceous, micaceous, firm.</i>
<i>4352(?) - 4861</i>	<i>Brown coal with traces coarse sandstone and traces gry. siltstone.</i>

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

*no shows of oil or gas to present depth.*  
*Note - the green shale was first believed to mark the base of the ~~tertiary~~ coal section; however, the continued coals drilled afterward indicate bit has not yet entered pre-Tertiary formations.*  
*Drilling ahead.*

Signed *James P. Seymour*  
 Legal Manager, *Woodside (L.E.) Oil* Co.

Date *20 February 1965*

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.  
 Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT WOODSIDE N. SEA SPRAY No: 2 bore on

\*Petroleum Exploration Permit)  
\*Petroleum Prospecting Licence) Number 166 during week  
\*Petroleum Mineral Lease

ending 12MN 26/27 FEB 1965

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
<u>4861-5358</u>	<u>Samples almost 100% dull luster brown coals associated with minor amounts coarse sands and traces gray siltstone.</u>
	<u>The Streylecki shales-siltstones and sandstones Group is now presumed to have been topped near 4000 feet, but nature of samples has prevented this identification.</u>

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

Water indeterminate; gas detection equipment has indicated no gas or petroleum horizons have been penetrated.

Signed James C. Ferguson

Legal Manager, Woodside (N.E.) Co. Co.

Date 27 Feb 1965

N.B. The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

Analyses of water, gas and oil should be submitted if available.

MINES DEPARTMENT  
VICTORIA

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT *Windsor N. Summary No. 2* bore on

\*Petroleum Exploration Permit)  
 \*Petroleum Prospecting Licence) Number *180* during week  
 \*Petroleum Mineral Lease  
 ending *1.8.58 26/02/58* 19*58*

\* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
<i>1.0</i>	<i>Surface soil</i>
<i>1.5</i>	<i>Light brown silty sand</i>
<i>2.0</i>	<i>Light brown silty sand</i>
<i>2.5</i>	<i>Light brown silty sand</i>
<i>3.0</i>	<i>Light brown silty sand</i>
<i>3.5</i>	<i>Light brown silty sand</i>
<i>4.0</i>	<i>Light brown silty sand</i>
<i>4.5</i>	<i>Light brown silty sand</i>
<i>5.0</i>	<i>Light brown silty sand</i>
<i>5.5</i>	<i>Light brown silty sand</i>
<i>6.0</i>	<i>Light brown silty sand</i>
<i>6.5</i>	<i>Light brown silty sand</i>
<i>7.0</i>	<i>Light brown silty sand</i>
<i>7.5</i>	<i>Light brown silty sand</i>
<i>8.0</i>	<i>Light brown silty sand</i>
<i>8.5</i>	<i>Light brown silty sand</i>
<i>9.0</i>	<i>Light brown silty sand</i>
<i>9.5</i>	<i>Light brown silty sand</i>
<i>10.0</i>	<i>Light brown silty sand</i>
<i>10.5</i>	<i>Light brown silty sand</i>
<i>11.0</i>	<i>Light brown silty sand</i>
<i>11.5</i>	<i>Light brown silty sand</i>
<i>12.0</i>	<i>Light brown silty sand</i>
<i>12.5</i>	<i>Light brown silty sand</i>
<i>13.0</i>	<i>Light brown silty sand</i>
<i>13.5</i>	<i>Light brown silty sand</i>
<i>14.0</i>	<i>Light brown silty sand</i>
<i>14.5</i>	<i>Light brown silty sand</i>
<i>15.0</i>	<i>Light brown silty sand</i>
<i>15.5</i>	<i>Light brown silty sand</i>
<i>16.0</i>	<i>Light brown silty sand</i>
<i>16.5</i>	<i>Light brown silty sand</i>
<i>17.0</i>	<i>Light brown silty sand</i>
<i>17.5</i>	<i>Light brown silty sand</i>
<i>18.0</i>	<i>Light brown silty sand</i>
<i>18.5</i>	<i>Light brown silty sand</i>
<i>19.0</i>	<i>Light brown silty sand</i>
<i>19.5</i>	<i>Light brown silty sand</i>
<i>20.0</i>	<i>Light brown silty sand</i>
<i>20.5</i>	<i>Light brown silty sand</i>
<i>21.0</i>	<i>Light brown silty sand</i>
<i>21.5</i>	<i>Light brown silty sand</i>
<i>22.0</i>	<i>Light brown silty sand</i>
<i>22.5</i>	<i>Light brown silty sand</i>
<i>23.0</i>	<i>Light brown silty sand</i>
<i>23.5</i>	<i>Light brown silty sand</i>
<i>24.0</i>	<i>Light brown silty sand</i>
<i>24.5</i>	<i>Light brown silty sand</i>
<i>25.0</i>	<i>Light brown silty sand</i>
<i>25.5</i>	<i>Light brown silty sand</i>
<i>26.0</i>	<i>Light brown silty sand</i>
<i>26.5</i>	<i>Light brown silty sand</i>
<i>27.0</i>	<i>Light brown silty sand</i>
<i>27.5</i>	<i>Light brown silty sand</i>
<i>28.0</i>	<i>Light brown silty sand</i>
<i>28.5</i>	<i>Light brown silty sand</i>
<i>29.0</i>	<i>Light brown silty sand</i>
<i>29.5</i>	<i>Light brown silty sand</i>
<i>30.0</i>	<i>Light brown silty sand</i>
<i>30.5</i>	<i>Light brown silty sand</i>
<i>31.0</i>	<i>Light brown silty sand</i>
<i>31.5</i>	<i>Light brown silty sand</i>
<i>32.0</i>	<i>Light brown silty sand</i>
<i>32.5</i>	<i>Light brown silty sand</i>
<i>33.0</i>	<i>Light brown silty sand</i>
<i>33.5</i>	<i>Light brown silty sand</i>
<i>34.0</i>	<i>Light brown silty sand</i>
<i>34.5</i>	<i>Light brown silty sand</i>
<i>35.0</i>	<i>Light brown silty sand</i>
<i>35.5</i>	<i>Light brown silty sand</i>
<i>36.0</i>	<i>Light brown silty sand</i>
<i>36.5</i>	<i>Light brown silty sand</i>
<i>37.0</i>	<i>Light brown silty sand</i>
<i>37.5</i>	<i>Light brown silty sand</i>
<i>38.0</i>	<i>Light brown silty sand</i>
<i>38.5</i>	<i>Light brown silty sand</i>
<i>39.0</i>	<i>Light brown silty sand</i>
<i>39.5</i>	<i>Light brown silty sand</i>
<i>40.0</i>	<i>Light brown silty sand</i>
<i>40.5</i>	<i>Light brown silty sand</i>
<i>41.0</i>	<i>Light brown silty sand</i>
<i>41.5</i>	<i>Light brown silty sand</i>
<i>42.0</i>	<i>Light brown silty sand</i>
<i>42.5</i>	<i>Light brown silty sand</i>
<i>43.0</i>	<i>Light brown silty sand</i>
<i>43.5</i>	<i>Light brown silty sand</i>
<i>44.0</i>	<i>Light brown silty sand</i>
<i>44.5</i>	<i>Light brown silty sand</i>
<i>45.0</i>	<i>Light brown silty sand</i>
<i>45.5</i>	<i>Light brown silty sand</i>
<i>46.0</i>	<i>Light brown silty sand</i>
<i>46.5</i>	<i>Light brown silty sand</i>
<i>47.0</i>	<i>Light brown silty sand</i>
<i>47.5</i>	<i>Light brown silty sand</i>
<i>48.0</i>	<i>Light brown silty sand</i>
<i>48.5</i>	<i>Light brown silty sand</i>
<i>49.0</i>	<i>Light brown silty sand</i>
<i>49.5</i>	<i>Light brown silty sand</i>
<i>50.0</i>	<i>Light brown silty sand</i>
<i>50.5</i>	<i>Light brown silty sand</i>
<i>51.0</i>	<i>Light brown silty sand</i>
<i>51.5</i>	<i>Light brown silty sand</i>
<i>52.0</i>	<i>Light brown silty sand</i>
<i>52.5</i>	<i>Light brown silty sand</i>
<i>53.0</i>	<i>Light brown silty sand</i>
<i>53.5</i>	<i>Light brown silty sand</i>
<i>54.0</i>	<i>Light brown silty sand</i>
<i>54.5</i>	<i>Light brown silty sand</i>
<i>55.0</i>	<i>Light brown silty sand</i>
<i>55.5</i>	<i>Light brown silty sand</i>
<i>56.0</i>	<i>Light brown silty sand</i>
<i>56.5</i>	<i>Light brown silty sand</i>
<i>57.0</i>	<i>Light brown silty sand</i>
<i>57.5</i>	<i>Light brown silty sand</i>
<i>58.0</i>	<i>Light brown silty sand</i>
<i>58.5</i>	<i>Light brown silty sand</i>
<i>59.0</i>	<i>Light brown silty sand</i>
<i>59.5</i>	<i>Light brown silty sand</i>
<i>60.0</i>	<i>Light brown silty sand</i>
<i>60.5</i>	<i>Light brown silty sand</i>
<i>61.0</i>	<i>Light brown silty sand</i>
<i>61.5</i>	<i>Light brown silty sand</i>
<i>62.0</i>	<i>Light brown silty sand</i>
<i>62.5</i>	<i>Light brown silty sand</i>
<i>63.0</i>	<i>Light brown silty sand</i>
<i>63.5</i>	<i>Light brown silty sand</i>
<i>64.0</i>	<i>Light brown silty sand</i>
<i>64.5</i>	<i>Light brown silty sand</i>
<i>65.0</i>	<i>Light brown silty sand</i>
<i>65.5</i>	<i>Light brown silty sand</i>
<i>66.0</i>	<i>Light brown silty sand</i>
<i>66.5</i>	<i>Light brown silty sand</i>
<i>67.0</i>	<i>Light brown silty sand</i>
<i>67.5</i>	<i>Light brown silty sand</i>
<i>68.0</i>	<i>Light brown silty sand</i>
<i>68.5</i>	<i>Light brown silty sand</i>
<i>69.0</i>	<i>Light brown silty sand</i>
<i>69.5</i>	<i>Light brown silty sand</i>
<i>70.0</i>	<i>Light brown silty sand</i>
<i>70.5</i>	<i>Light brown silty sand</i>
<i>71.0</i>	<i>Light brown silty sand</i>
<i>71.5</i>	<i>Light brown silty sand</i>
<i>72.0</i>	<i>Light brown silty sand</i>
<i>72.5</i>	<i>Light brown silty sand</i>
<i>73.0</i>	<i>Light brown silty sand</i>
<i>73.5</i>	<i>Light brown silty sand</i>
<i>74.0</i>	<i>Light brown silty sand</i>
<i>74.5</i>	<i>Light brown silty sand</i>
<i>75.0</i>	<i>Light brown silty sand</i>
<i>75.5</i>	<i>Light brown silty sand</i>
<i>76.0</i>	<i>Light brown silty sand</i>
<i>76.5</i>	<i>Light brown silty sand</i>
<i>77.0</i>	<i>Light brown silty sand</i>
<i>77.5</i>	<i>Light brown silty sand</i>
<i>78.0</i>	<i>Light brown silty sand</i>
<i>78.5</i>	<i>Light brown silty sand</i>
<i>79.0</i>	<i>Light brown silty sand</i>
<i>79.5</i>	<i>Light brown silty sand</i>
<i>80.0</i>	<i>Light brown silty sand</i>
<i>80.5</i>	<i>Light brown silty sand</i>
<i>81.0</i>	<i>Light brown silty sand</i>
<i>81.5</i>	<i>Light brown silty sand</i>
<i>82.0</i>	<i>Light brown silty sand</i>
<i>82.5</i>	<i>Light brown silty sand</i>
<i>83.0</i>	<i>Light brown silty sand</i>
<i>83.5</i>	<i>Light brown silty sand</i>
<i>84.0</i>	<i>Light brown silty sand</i>
<i>84.5</i>	<i>Light brown silty sand</i>
<i>85.0</i>	<i>Light brown silty sand</i>
<i>85.5</i>	<i>Light brown silty sand</i>
<i>86.0</i>	<i>Light brown silty sand</i>
<i>86.5</i>	<i>Light brown silty sand</i>
<i>87.0</i>	<i>Light brown silty sand</i>
<i>87.5</i>	<i>Light brown silty sand</i>
<i>88.0</i>	<i>Light brown silty sand</i>
<i>88.5</i>	<i>Light brown silty sand</i>
<i>89.0</i>	<i>Light brown silty sand</i>
<i>89.5</i>	<i>Light brown silty sand</i>
<i>90.0</i>	<i>Light brown silty sand</i>
<i>90.5</i>	<i>Light brown silty sand</i>
<i>91.0</i>	<i>Light brown silty sand</i>
<i>91.5</i>	<i>Light brown silty sand</i>
<i>92.0</i>	<i>Light brown silty sand</i>
<i>92.5</i>	<i>Light brown silty sand</i>
<i>93.0</i>	<i>Light brown silty sand</i>
<i>93.5</i>	<i>Light brown silty sand</i>
<i>94.0</i>	<i>Light brown silty sand</i>
<i>94.5</i>	<i>Light brown silty sand</i>
<i>95.0</i>	<i>Light brown silty sand</i>
<i>95.5</i>	<i>Light brown silty sand</i>
<i>96.0</i>	<i>Light brown silty sand</i>
<i>96.5</i>	<i>Light brown silty sand</i>
<i>97.0</i>	<i>Light brown silty sand</i>
<i>97.5</i>	<i>Light brown silty sand</i>
<i>98.0</i>	<i>Light brown silty sand</i>
<i>98.5</i>	<i>Light brown silty sand</i>
<i>99.0</i>	<i>Light brown silty sand</i>
<i>99.5</i>	<i>Light brown silty sand</i>
<i>100.0</i>	<i>Light brown silty sand</i>

NOTES BY DRILLER IN CHARGE: (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented.)

*Water was met with at 16.5 ft. It was clear and free from oil. No further tests were made.*

Signed *[Signature]*

Legal Manager, *[Signature]* Co.

Date *27/2/58*

**N.B.** The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered. Analyses of water, gas and oil should be submitted if available.





APPENDIX 4.0....

North Seaspray No 2  
Cuttings log

- 0-40 : no samples
- 40-50 : even-grained med. sand, partially iron-stained.
- 50-60 : ~~sl. co.~~ "
- 60-70 : , sl. less well sorted.
- 70-80 : "
- 80-100 : "gray-black clay gumbo, not washable."
- 100-20 : med. qnd. <sup>white</sup> sand, all qns. well-sounded & polished; <sup>some</sup> chips of <sup>gy</sup> clay
- 120-30 : med-coarse sand, occ. gravel, & qns. of gy. clay, which may be sandy, & black carb<sup>s</sup> chips.
- 130-40 : " "
- 140-50 : inc. chips hard blackish 'coal'.
- 150-60 : fine sand to coarse gravel, also chips of gy. fine sandstone & tiny carbonaceous chips.
- 160-70 : }  
-190 : }
- 190-200 : well-polished sand as for 110-20, but poorly sorted; not many carbonaceous chips.
- 200-10 : as above, quite gravelly, also <sup>carbonat.</sup> chips & clay grains.
- 210-20 : ---
- 220-30 : appreciably gravelly.
- 60 : ---
- 260-70 : as above, also some hard chips of bn. (sideritic<sup>\*</sup>, slowly dissolving) sandstone, & some glauc. grains and apparent fossils.
- 270-80 : as above
- 280-90 : frags. of bn. to gy. green calc<sup>s</sup> sand & mollusca, brach (Terebratellid-type), bryozoa, Ditrupa + Elph. spp., inc E. imperatrix + a miliolid (Tritoculina sp.)
- also 290-300, 300-10, 310-320  
(occ. carbonat<sup>s</sup>. chips)

\* goes white when dissolved in acid.

partially  
exd.

320-30 : hard, finer grd. lt. gy (c greenish or brownish tinge)  
calc. sand & sandy marly lst., more Ditrupa, sl. less  
mollusca, ~~bryozoa~~ ~~st. different~~

330-40 : ? contain: gy. carbonat mic. clay, also reasonable  
no. of mollusca.

340-50 : as above | inc. mostly lt. gy. glauc. calc. sst.

350-60 : " " mollusca + Ditrupa both still rel. common.

360-70 : --- not quite so many mollusca, diff. type  
of bryozoa coming in.

370-80 : ~~sl.~~

380-90 : "clean" i.e. no contain: rel. high ppm. of sand. } def.  
coarser  
grd.  
than  
usual.

390-400 : --- fair amt. of Ditrupa

~~390-400~~ : --- still Elph. imperatrix.

400-10

--- 30 :

430-40 : yellowish gy sandy (marly) lst., abundant bryozoa,  
(branching type), also Ditrupa. Still some  
glauc. qns.

440-50 : --- [ ~~most~~ of it partially rex<sup>d</sup> bryozoa  
marly lst. (i.e. not v. sdy).  
- also 450-60, 460-70,

470-80, 480-90, 490-500, 500-10, ~~510-20~~  
(sample almost entirely bryozoa) (some glauc. sst. other than this)

510-20 : rather sdy sediment, otherwise as above.  
- also 520-30, 530-40, 540-50, 550-60  
inc. a bryozoa

} Cellaria is  
amongst the  
bryozoa

560-70 : u. highly sdy. lst, quite hard (+rex<sup>d</sup>), brown-stained,  
inc. Elphidium parvi.

570-80 : as above same almost a calc sst, also occ. } some  
chips hard lst, Cellaria, + Ditrupa. } glauc.  
grains

- also 580-90, 590-600, 600-10,

610-20 : as above, but gy + glauconitic.

620-30 : yellowish gy. again.

630-40 : fine to med. sand, many of the qns. reddish br.  
due to iron-staining, occas. Ditrupa.

- also 640-50, 650-60, 660-70,

(gyish material assoc<sup>d</sup>, no br stains on qns.)



- 670-80 : as above, much of the quartz shows appreciable rounding.
- 680-90 : -- , few chips of greyish 'marly' sand.
- 690-700 : - - -
- 700-10 : - - - more quo. of greyish sandy marly 1st.
- 710-20 : predom. <sup>bryozoal</sup> gy. sandy marly 1st. ± glauc., some ± Ditrupa
- 720-30 : as above, also 730-40, 740-50, 750-60, 760-70 not v. sandy (marly 1st, that is)

\* 770-80, 780-90.

790-800 : lt. grey bryozoal marly 1st, high glauconite, recrystallised, with Ditrupa.

- also ~~780-90, 790-800~~, 800-10, 810-20.

820-30 : yellowish/white bryozoal 1st, highly recrystallised, with Ditrupa + common Oparculina victoriensis.

~~830-40~~ - also 830-40, 840-50, 850-60, 860-70, 870-80, [some molluscan frags in this stuff]

880-90 : lt. gy marly 1st. ± glauc. grains + Amphistegia lessonii (also an Astronomion <sup>obesum</sup>) [CEMENT GNS.]

~~890-900~~ + Lepidocyclus (sl. worn-looking).

890-900 : as above, also Cyprina howchini L

● - also 900-10, 910-20, 920-30, 930-40, 940-50, 950-60, (L) (L) (L) (No L) (L) (no L)

960-70, 970-80, 980-90, // 990-1000, 1000-10, (no L) (L) (Lep. more common) L(c) L

1010-20 (rex<sup>d</sup>), 1020-30, 1030-40, 1040-50, 1050-60, L L(c) L(c) L(c) L(c)

1060-70, 1070-80, // 1080-90, 1090-1100, 1100-10, 1110-20, L(c) L(c) L, Gypr. L L L

Amphist. 1120-30, 1130-40, 1140-50, 1150-60, 1160-70, 1170-80, common L L, Cyclohyp. L, Gypr. L L L

throughout. 1180-90, 1190-1200, 1200-10, 1210-20, 1220-30, = L L L, rel. c L, Gypr. rel. c L, rel. c

1230-40, 1240-50 L, rel. c L

1250 ±-60 : as above, traces qy. clay around, also pyrite  
(? marl).

- also 1260-70, 1270-80, 1280-90, 1290-1300,  
 L tr. some "med-lumping" pyrite no L.  
 lithol. basically a  
 rexd. marly lst, some  
 ± glauc-bryozoa ab.  
 → some of them rather  
 dark-greyish.

1300-10,  
 (Lep. traces, prob.  
 contain<sup>n</sup>)

1310-20 : some contain<sup>n</sup>, also occ. dense lst. chip.

1320-30 : some qns. abn. qy. marly lst (sl. pyi), glauc.  
 traces, bryozoa, Symphisbequina.

— also 1330-40, 1340-50, 1350-60, 1360-70, 1370-80,  
 (some chips quite dense) also contain<sup>n</sup>, inc.  
 a Lep fragment.

1380-90 : <sup>hard</sup> marly lst, occ. chips qy. clayey marl; also  
 bryozoa more like those of true Longfordian.  
 (stick-like, ~~opaque~~ yellow).

— also 1390-1400, 1400-10

1400-10 : ~~1390-1400~~ large chips of qy. marl with <sup>some</sup> poorly-preserved  
 bryozoa, also dense marly lst.

1410-20 : dense marly lst, also qy marl ± glauc, "sparkling" due  
 2ndary calcite.

1420-30 : hard marly lst (rexd)

1430-40 : — — — — — occ. x'line lst.

1440-50 : — — — — — also abundant bryozoa frags.

1450-60 : — — — — —

1460-80 : — — — — — occ. chips clayey marl.

1480-90 : — — — — — qns. pyrite.

1490-1500 : — — — — —

1500-10 : lt qy. marly lst, also qy. clayey marl. (± v. worn bryozoa)

1510-20 : as above, also 1520-30.

1530-40 : as above, almost entirely marl.

1540-50 : largely marly limestone, v. hard, which is appreciably  
 glauconitic.

- 1550-60 : as above
- 1560-70 : large pieces of qy. clayey marl, ± faint traces of worn bryozoa.
- 1570-80 : as above, also smaller chips of <sup>hard</sup> marly lst (contam?)
- 1580-90 : pred. hard marly lst (glauc.)
- 1590-1600 : large piece of marl, also chips of marly lst.
- 1600-10 : qy marl, but predom. chips of marly lst, both ± glauc.
- 1610-20 : as above, enormous piece of marly lst.
- 1620-30 : chips of marly lst., occasional marl.
- 1630-40 : v. dense yellowish white lst/marly, v. fine gr. <sup>qy</sup>, ± specks pyrite, also tr. glauc.
- 1640-50 : as above, also yellowish qy. puggy marl ± bryozoa traces.

- also 1650-60, 1660-70, 1670-80, 1680-90, 1690-1700,
- 1690-1700 : ~~puggy~~ yellowish grey puggy foraminiferal marl. appears to have a faint quish. tinge by about 1800-10.
- 2020 [miliolids rel. common, partic. @ 1990-2000

- 2020-30 : <sup>marl</sup> one or two chips of rel. hard glauc. "marl" (lst)! ??!
- 2030-40 : as above, occ. glauc. qus.
- 2040-50 : as above, apprec. no. of "Cyclamminis".
- 2050-60 : v. poor sample.
- 2060-70 : occ. glauc, one piece glauc. 'marl'.
- <sup>also</sup> 2070-80, 2080-90, 2090-2100.
- 2100-210 : \*<sup>2</sup> marl contamt. ; high ppn. of sand, fine to coarse, + occ. gravel, quartz, glauc/pyr. ; \*<sup>2</sup> chips highly glauc. marl ; \*<sup>2</sup> brown sacrosic glauc. dolomite, \*<sup>2</sup> chip bn ligneous clay ± embedded sand ;
- 2110-20 : as above
- apprec. bn. sacrosic glauc. dol., some quartz in it
  - a fish fragment & a worn-looking molluscan fragment

PROB. TOP OF  
LV CM.

2120 - 30

as above, dol. not as common

- also a chip of brown coal.

2130 - 40

as above

- also a bn. ligenous clay chip.

high  
downhole  
content.

2140 - 50

2150 - 60

chip bn coal, <sup>also</sup> contain.

2160 - 70

occ. chips

2170 - 80

2180 - 90

occ. larger chips bn coal, contain.

2190 - 2200

bad contain.

~~2200 - 2430~~  
2210

brown coal, with traces of sand in  
some of the cuttings.

2430 - 40

some coal chips, pred. a f-med. grd. partially  
rounded sand.

- also 2440-50, 2450-60, 2460-70, 2470-80, 2480-90, 2490-2500  
[<sup>approx</sup> contain. by foss. material].

2200-10: bn. coal, sand(?) smarl (contain).

2500-10

bn. coal chips, also v. high marl contamination.

2510-20

coal, sand smarl.

2520-30

coal, sand gravel, smarl.

2530-40

coal sand, occ. marl.

2540-50

bn coal

2550-60

coal smarl, minor sand.

2560-70

coal, sand smarl

2570-80

coal, sand, smarl.

2580-90

2590-2600

predom. brown coal.

2600-10

coal, marl sand.

2610-20

coal, approx. sand, + occ. marl.

2620-30

pred. coal, minor sand.

2630-40

2640-50 : sand, coal frags., some marl content.  
 2650-60 } as above  
           - 80 }  
 2680-2800 : bn. coal (assoc. calk. mat. @ 2740-50.)  
           [DEPTH 50  
           PAR ]

Preliminary Cuttings Log.

- 0 - 40 : no samples.
- 40 - 80 : yellow <sup>quartz</sup> sand, medium-grained, partially iron-stained.
- 80 - 110 : no samples — "grey-black <sup>clay</sup> gumbo, not washable", according to well-site geologist.
- 110 - 150 : ~~white~~ <sup>light</sup> grey sand, medium to coarse grained, well-rounded & polished, fragments of grey carbonaceous clay, also chips of black coal.
- 150 - 190 : fine sand to coarse gravel; also chips of grey sandstone, fine grained, with small carbonaceous chips.
- 190 - 260 : poorly sorted sand and gravel, coarse grains well-rounded; occasional carbonaceous chips.
- 260 - 280 : as above; also some chips of hard brown calcareous sandstone with traces of glauconite.
- 280 - 320 : brown to greyish green calcareous sand with mollusca, brachiopods (~~not common~~), bryozoa, ~~fish~~ <sup>common</sup> Ditrupe and foraminifera; occasional carbonaceous chips. (often with greenish tinge)
- 320 - 430 : hard (partially recrystallised) light grey <sup>&</sup> sandy marly limestone (possibly some 'marly sandstone'), Ditrupe more common mollusca less common than above.
- 430 - 560 : yellowish grey <sup>bryozoal</sup> ~~sandy~~ <sup>sandy</sup> marly limestone and limestone, often partially sandy still with traces of glauconite; bryozoa are abundant <sup>(partly below 510 ft)</sup> & Ditrupe common.
- 560 - 630 : yellow sandy limestone <sup>and</sup> possibly some calcareous sand-iron-stained, appreciably recrystallised; Ditrupe relatively common; grey, partially glauconitic, sandy marly limestone at 620-30 feet.
- 630 - approx. 700 : <sup>quartz</sup> yellow-brown sand, presumably partially calcareous, fine to medium grained, partially rounded, brown colouration due to iron-staining; some Ditrupe.

- approx. 700 - 820 : <sup>light</sup> grey <sup>recrystallised</sup> bryozoal sandy marly limestone, with glauconite traces; also Ditrupea.
- 820 - 880 : yellowish white bryozoal limestone, highly recrystallised, with Ditrupea & common Operculina victoriensis, also some molluscan fragments.
- 880 - 1250 : light grey bryozoal marly limestone, with glauconite traces, and relatively common Amphistegina lessonii, also some Lepidocyclus howchini.
- 1250 - 1380 : as above, but traces of grey clay (or ? marl), darker grey, <sup>partially</sup> pyritic, marly limestone, and loose grains of pyrite.
- 1380 - 1630 : dense brownish grey marly limestone, sometimes glauconitic, and also grey clayey marl, often pyritic; recrystallisation common; bryozoa different to those above.
- 1630 - 1690 : dense yellowish white limestone/marly limestone, very fine grained ~~marl~~ with specks of both pyrite and glauconite; also yellowish grey ~~marl~~ marl with traces of worn bryozoa.
- 1690 - 2100 : yellowish grey puggy foraminiferal marl, with very faint greenish tinge below approximately 1800 feet; chips of hard glauconitic marl noticed below approx. 2060 ft.
- 2100 - approx. 2120 : quartz sand, fine to coarse, and minor gravel, with <sup>relatively common</sup> glauconite & pyrite; chips of brown sucrosic glauconitic dolomite (with some quartz); traces of brown ligneous clay; traces of mollusca & fish fragments.
- approx 2120 - 2210 : highly contaminated samples, including traces of brown coal & ligneous clay.
- 2210 - 2430 : brown coal (also traces of sand in the cuttings)
- 2430 - 2680 : coal, sand, and marl contamination, with definite brown coal at 2540-50ft. and 2590-2600ft.
- 2680 - 2800 : brown coal.
- (total depth of samples to date)

# GRAPHIC CORE LOG

Interval from 3930 Ft. to 3948 Ft. Cut 18 Ft. Recovered 3 Ft. % Rec. ....  
 Size and Type Core Head 6 1/8" Chertimer Diamond, #CD72 Described by J.P. Payman  
 Date 12-13 February, 1965

Depth Feet in/ft	LITHOLOGY	OIL SHOW RATING	LITHOLOGIC DESCRIPTION	SHOW DESCRIPTION	CORE ANALYSIS DATA						
					% POROS	Permeability Millidarcies		RESIDUAL FLUIDS			S. GR.
						Horitz.	Vert.	OIL		Water	
				% Vol.	% Pore	% Pore					
5	L.A. TROBE VALLEY COAL MEASURES		Recovered one knobby	Nil							
5			base-ball size lump of								
6			very coarse poorly-sorted								
5			siliceous conglomerate:								
10			mostly light-colored								
14			well-rounded siliceous								
20			grains, pebbles, and small								
21			cobbles of milky-white								
6			or colourless or smoky-								
7			gray and occasional rare								
24			tiny coal chip components,								
15			all in a tan-colored								
21			clayey-silty matrix with								
16		very poor bonding char-									
13		acteristics (surface grains									
11		and pebbles can be pulled									
5		loose by light touch;									
4		pieces crumble away with									
		careful handling)									
		One component of white									
		(milky) siliceous material									
		measures over 2" across,									
		several over 1" across.									
		Formation is non-									
		calcareous.									
		Porosity not evident, though									
		may exist through the silty									
		matrix material									
		Dip: indeterminate.									
		Bit completely lowered, destroyed.									















WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L.

PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION

WELL: N. SEASPRAY No. 2.  
 SHEET No.: 5  
 INTERVAL FROM 2960'  
 TO 3700'

ELEV. K. B. FT. DATE: 9 - FEB 65 LOGGED BY: [Signature] B. Maria

DIP DATA	TESTS	CASINGS-PERFS PLUGS	SW CORES CORES	GRAPHIC LOG DEPTH SCALE 1:600	DESCRIPTION OF SHOWS AND MUD LOSSES					% LITHOLOGY						LITHOLOGIC DESCRIPTION	FORMATION	AGE
					OIL SHOW RATING	GAS SHOW	FLUORESCENCE	CUT	STAIN	EST. POROSITY	LIMESTONE	DOLOMITE	SANDSTONE	SHALE	CLAY			
DRILLING RATE (MIN/FT)																		
				3000														
				3100														
				3200														
				3300														
				3400														
				3500														
				3600														
				3700														

TIGHT SPOT 3067

WT REDUCED FOR SLOWER PENETRATION

AV. 1-2 MIN/FT, NOT PLATED

3455

3612

COMPLETE LC 3217  
 + STUCK PIPE (TWO DAYS LOST)

SAMPLES CONTINUE NEARLY TOTALLY COAL: DK. BROWN, DULL, BLOCKY, BRITTLE, ASSOC. W/ TRACE GRAY CLAYS; 3000': ABUND. SS: V. CRSE SUB-ROUND, COLORLESS QTZ GRAINS, ALL LOOSE.

3180: SS: V. CRSE, V. CLEAN, COLORLESS, RD-SUBRD QTZ. GRAINS.

COAL AS BEFORE, W/ V.V. CRSE LOOSE QTZ SD. GRAINS (SD. CONGL.)

COAL BRN-BLK, BLOCKY, DULL

... TR. CRSE. SS.

... MINOR AMT. CRSE LOOSE SD. " 70-80

SOME FLAKES OF WHITE MICA ASSOC. W/ CRSE QTZ SANDS.

COAL AS BEFORE ASSOC. W/ LESS SUBANG, MOD. SORTED CRSE QTZ SANDS, ALL LOOSE.

LATROBE VALLEY COAL MEASURES TERTIARY









THE TERTIARY MARINE SEQUENCE  
IN NORTH SEASPRAY NO.2 WELL

by

J. Barry Hocking.

INTRODUCTION

This account is basically that presented in the Woodside (Lakes Entrance) Oil Co. North Seaspray No.2 Well Completion Report (1965), although in addition a summary lithologic log is provided and also a corrected stratigraphic depth chart (based on e-logs).

WELL INFORMATION

Location: 38° 18'07" S., 147° 12'20" E.  
Parish: Wulla Wullock  
Elevation: 89 ft. (K.B.)  
Total Depth: 5358 ft.

SUMMARY LITHOLOGIC LOG

The log is based on the examination of 10 ft. cuttings samples:

0 - 40	:	no samples
40 - 80	:	yellow quartz sand, medium-grained, partially iron-stained
80 - 110	:	no samples; "grey-black clay gumbo, not washable", according to the well-site log
110 - 150	:	light grey sand, medium to coarse-grained, well-rounded and polished, with fragments of grey carbonaceous clay, and chips of blackish 'coal'
150 - 190	:	fine sand to coarse gravel; also chips of grey sandstone, fine-grained, with small carbonaceous chips
190 - 260	:	poorly-sorted sand and gravel, coarser grains well-rounded, occasional carbonaceous chips
260 - 280	:	as above, but also some chips of hard brown calcareous sandstone with traces of glauconite
280 - 320	:	brown to greyish green calcareous sand with mollusca, brachiopods, bryozoa, <u>Ditrupe</u> and foraminifera; and occasional carbonaceous chips
320 - 430	:	hard (partially recrystallised) light grey (often with greenish tinge) sandy marly limestone, and possibly some marly sandstone; <u>Ditrupe</u> more common, and mollusca less so, than above
430 - 510	:	yellowish grey bryozoa limestone and marly limestone, often partially sandy, and with traces of glauconite; bryozoa are abundant and <u>Ditrupe</u> common
510 - 560	:	as above, but more sandy
560 - 620	:	yellow sandy limestone, and probably some calcareous sand, iron-stained, appreciably recrystallised; <u>Ditrupe</u> relatively common
620 - 630	:	grey, partially glauconitic, sandy marly limestone
630 - 700 (approx)	:	yellow-brown quartz sand, fine to medium-grained, partially rounded, brown coloration due to iron-staining; presumably partially calcareous; some <u>Ditrupe</u>
700 - 820	:	light grey bryozoa recrystallised sandy marly limestone with glauconite traces; also <u>Ditrupe</u>
820 - 880	:	yellowish white bryozoa limestone, highly recrystallised with <u>Ditrupe</u> and common <u>Operculina victoriensis</u> , also some molluscan fragments

- 880 - 1250 : light grey bryozoal marly limestone with glauconite traces; relatively common Amphistegina lessonii and some Lepidocyclina Howchinii
- 1250 - 1320 : as above, but with traces of grey clay (or ?marl)
- 1320 - 1380 : darker grey, partially pyritic, marly limestone, and loose grains of pyrite
- 1380 - 1630 : dense brownish grey marly limestone, sometimes glauconitic, and also grey clayey marl, often pyritic; recrystallisation common, including the bryozoa
- 1630 - 1690 : dense yellowish white limestone/ marly limestone, very fine-grained, with specks of both pyrite and glauconite; also yellowish grey marl with traces of worn bryozoa
- 1690 - 2100 : yellowish grey puggy foraminiferal marl, with greenish tinge appearing at about 1800 ft; chips of hard glauconitic marl below approx. 2060 ft.
- 2100 - 2120 : quartz sand, fine to coarse, and minor gravel, (approx) with relatively common glauconite and pyrite; also chips of brown sucrosic glauconitic sandy 'dolomite'; also traces of brown ligneous clay; traces of mollusca and fish fragments
- 2120 - : lignite, ligneous clay, etc.

#### STRATIGRAPHIC SEQUENCE.

##### 0 - 280 feet: Haunted Hill Gravels/ Boisdale Beds.

The Haunted Hill Gravels might occur above 40 ft., but were not observed in the samples taken.

The Boisdale Beds (Jenkin, 1967) occur down to 280 feet. The lower unit of these, which contains carbonaceous material, appears to be represented below approximately 110 feet. The basal 20 feet contains fragments of hard brown calcareous sandstone which have probably been derived from the underlying Jemmys Point Formation.

All samples examined in this interval are unfossiliferous.

##### 280-320 feet: Jemmys Point Formation.

The top of the Jemmys Point Formation in this well marks the highest occurrence of mollusca (which are very common in this unit) and also of brachiopods, bryozoa, the calcareous worm tube Ditrupe, and foraminifera. The latter are limited in number, and consist of Elphidium sp. including E. imperatrix, Triloculina sp. and Nonion victoriense. These species typify shallow water conditions.

##### 320-430 feet: Tambo River Formation.

The lithologies conform to what is being referred to as the Tambo River Formation (Hocking, 1965). Mollusca are typically less common than above. The microfauna is very poor, and the only species recorded are Astrononion australe and Elphidium imperatrix. Ostracods occur also.

##### 430-1690 feet: Gippsland Limestone.

An approximate stage subdivision is as follows:

##### 430-880 ft: Bairnsdalian and Balcombian.

As Orbulina universa was not observed, the boundary between these two stages could not be selected. Microfaunas are very poor throughout, although the larger species Operculina victoriensis occurs

commonly below 820 feet. On the basis of earlier work by the author (Hocking, loc.cit), it would appear that the top of the Balcombian is only 20-odd feet above this depth of 820 feet. Elphidium parri is noted in samples of sandy limestone below 560 feet.

The sandy sediments in particular are characterised by shallow water bryozoa, such as Cellaria, and also by common Ditrupa.

880-1250 ft: 'Batesfordian'.

880 feet marks the highest occurrence of both Amphistegina lessonii and Lepidocyclina howchini. Both are common throughout this interval, the latter being restricted to it. Lepidocyclina is most common between 990 and 1080 feet. Gypsina howchini, Cycloclypeus victoriensis, Notorotalia miocenica, and Calcarina cf. verriculata occur to a lesser extent.

Below 1250 feet Lepidocyclina howchini occurs only in some samples, and is thus assumed to be contamination.

1250-1690 ft: Longfordian.

Samples below approximately 1400 feet contain definite Longfordian microfaunas which include Globigerina woodi, Astrononion centroplax, Gibicides perforatus and Gyroldina zealandica. Faunas are generally poor in both quality and quantity, however, due to recrystallisation effects.

1690-approx. 2120 feet: Lakes Entrance Formation.

The top of the yellowish grey foraminiferal (non-bryozoal) puggy marls (1690 feet) also represents the top of the Janjukian. The relatively abundant microfauna of these marls consists of such calcareous species as Globigerina ampliapertura euapertura, Globorotalia extans, Astrononion centroplax, Gibicides brevoralis, G. perforatus, Elphidium crespinae, Gyroldina zealandica, Notorotalia crassimura and Triloculina sp. The Janjukian in this well is also characterised by a good arenaceous fauna which includes Ammodiscus sp, Clavulinoides sp, Haplophragmoides incisa H. cf. paupera, H. rotundata, Pseudoclavulina sp, Reophax sp., Textularia sp. and Trochammina sp. Molluscan and fish fragments occur also.

All microfaunas in this interval belong to Carter's Faunal Unit 5 - no Faunal Unit 4 was observed (refer Hocking and Taylor, 1964).

The formation can be split (Hocking, 1965) into:

- (a) 'marly unit' : 1690-2100 feet, and
- (b) 'sandy unit' : 2100-approx. 2120 feet.

approx. 2120-4000 feet: Latrobe Valley Coal Measures:

This interval contains sands, lignites, ligneous clays, and a basal siliceous conglomerate.

No foraminifera, other than those due to contamination, were found below approximately 2120 feet.

CORRECTED STRATIGRAPHIC TABLE.

Minor adjustments have been made to some of the stratigraphic boundaries given above as a result of checking the e-logs (refer Hocking, 1965):

Rock Unit.	Depths (ft.)	Faunal Unit and Local Tertiary Stage (after <u>Carter,</u> <u>1964</u> ).
Haunted Hill Gravels and Boisdale Beds .....	280	.....
Jemmys Point Formation .....	320	Kalinman .....
Tambo River Formation .....	430	Mitchellian .....
Gippsland Limestone .....	880	F.U. Bairnsdalian & 11 & 10 Balcombian .....
	1250	F.U. 9 'Batesfordian' .....
	1740	F.U. 8-6 Longfordian .....
Lakes Entrance Formation .....	2127	F.U. 5 Janjukian .....
..... .....	2142	.....
	4900	.....

Strzelecki Group

LOWER CRETACEOUS.

REFERENCES.

Carter, A.N., 1964. Tertiary foraminifera from Gippsland, Victoria and their stratigraphical significance. Geol. Surv. Vict. Memoir 23.

Hocking, J.B., 1965. Characteristics of the Tertiary formations of southern and south-eastern Gippsland. Vic. Mines Dept. unpubl. rept. 5/1965.

Hocking, J.B. & Taylor, D.J., 1964. Initial marine transgression in the Gippsland Basin, Victoria. A.P.E.A. Journal 1964: 125-132.

Jenkin, J.J., 1967. The geomorphology and Upper Cainozoic geology of south-east Gippsland, Victoria. Geol. Surv. Vict. Memoir 27 (in press).

Barry Hocking

J.B. HOCKING.

Geologist.

17/11/66



TERTIARY STRATIGRAPHY IN NORTH SEASPRAY NO. 2 WELL.

10 ft. cuttings samples have been provided, covering the interval examined in this report.

0 - 280 feet: Haunted Hill Gravels/Bushy Park Beds.

The Haunted Hill Gravels might occur above 40 ft. but were not observed in the samples taken.

The Bushy Park Beds occur down to 280 feet. The lower unit of these, which contains carbonaceous material, appears to be represented below approximately 110 feet. The basal 20 feet contains fragments of hard brown calcareous sandstone which have probably been derived from the underlying Jemmys Point Formation.

All samples examined in this interval are unfossiliferous.

280-320 feet: Jemmys Point Formation.

The top of the Jemmys Point formation in this well marks the highest occurrence of mollusca (which are very common in this unit) and also of brachiopods, bryozoa, the calcareous worm tube Ditrupa, and foraminifera. The latter are limited in number, and consist of Elphidium spp. including E. imperatrix, Triloculina sp. and Nonion victoriense. These species typify shallow water conditions.

320-430 feet: Tambo River Formation.

The lithologies conform to what is being referred to as the Tambo River Formation (Hooking, forthcoming unpublished report). Mollusca are typically less common than above. The microfauna is very poor, and the only species recorded are Astrononion australe and Elphidium imperatrix. Ostracods occur also.

430-1690 feet: Gippaland Limestone.

An approximate stage subdivision is as follows:

430-880 ft: Bairnsdalian and Balcombian.

As Orbulina universa was not observed, the boundary between these two stages could not be picked. Microfaunas are very poor throughout, although the larger species Operculina victoriensis occurs commonly below 820 feet. On the basis of earlier work (Hooking, loc.cit), it would appear that the top of the Balcombian is only 20-odd feet above this depth of

820 feet. Elphidium parri is noted in samples of sandy limestone below 560 feet.

The sandy sediments in particular are characterized by shallow water bryozoa, such as Cellaria, and also by common Ditrupa.

880-1250 ft.: Batesfordian.

880 feet marks the highest occurrence of both Amphistegina lessonii and Lepidocyclina howchini. Both are common throughout this interval, the latter being restricted to it. Lepidocyclina is most common between 990 and 1080 feet. Cypsinia howchini, Cycloclypeus victoriensis, Noterotalia miocenica, and Calcarina cf. verriculata occur to a lesser extent.

1250-1690 ft.: Longfordian.

Below 1250 feet Lepidocyclina howchini occurs only in some samples, and is thus assumed to be contamination.

Samples below approximately 1400 feet contain definite Longfordian microfaunas which include Globigerina woodi, Astrononion centroplax, Cibicides perforatus and Gyroidina zealandica. Faunas are generally poor in both quality and quantity, however, due to recrystallisation effects.

1690-approx. 2120 feet: Lakes Entrance Formation.

The top of the yellowish grey foraminiferal (non-bryozoal) pugy marls (1690 feet) also represents the top of the Janjukian. The relatively abundant microfauna of these marls consists of such calcareous species as Globigerina ampliapertura eusapertura, Globorotalia extans, Astrononion centroplax, Cibicides brevoralis, C. perforatus, Elphidium crespinae, Gyroidina zealandica, Noterotalia crassimura and Triloculina sp. The Janjukian in this well is also characterized by a good arenaceous fauna which includes Ammodiscus sp., Clavulinoides sp., Caudryina sp., Haplophragmoides incisa, H. cf. paupera, H. rotundata, Pseudoclavulina sp., Reophax sp., Tectularia sp. and Trochammina sp. Molluscan and fish fragments occur also.

All microfaunas in this interval belong to Carter's Faunal Unit 5 - no Faunal Unit 4 was observed (refer Hooking and Taylor, 1964).

Below approx. 2120 feet.

Core No. 2, taken at 3950-57 feet consisted of brittle brown coal, and siliceous conglomerate, indicating



that the Latrobe Valley Coal Measures had not been entirely penetrated at the time this report was written.

No foraminifera - other than those due to contamination - have been found below approx. 2120 feet.

Summary Table.

<u>Rock Unit</u>	<u>Depths (ft.)</u> (based on cuttings samples).	<u>Faunal Unit and Local Tertiary Stage (after Carter, 1964).</u>
.....	40.....	
Haunted Hill Gravels and Bushy Park Beds	.....280.....	
Jemay's Point Formation	.....320.....	Kalimnan
Tambo River Formation	.....430.....	Mitchellian
Gippsland	F.U. 11 & 10 .....880.....	Bairnedalian and Balcombian
Limestone	F.U. 9 .....1250.....	Batesfordian
	F.U. 8-6 .....1690.....	Longfordian
	F.U. 5. .....2120.....	Janjukian
Lakes Entrance Formation	approx. .....2120.....	Janjukian
Latrobe Valley Coal Measures		Anglesean.

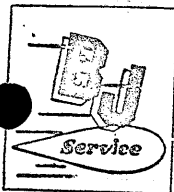
References:

Carter, A.N.: 1964. Tertiary foraminifera from Gippsland, Victoria and their stratigraphic significance. Geol. Surv. Vict. Memoir 23.

Hocking, J.B. and Taylor, D.J. 1964: The initial marine transgression in the Gippsland Basin, Victoria. A.P.E.A. Journal, 1964, pp. 125-132.

J.B. Hocking.  
Geologist.

**APPENDIX 5.0....**



DRILL-STEM TEST DATA

Well Name	WOODSIDE SEASPRAY	Test No.	1
Well Number	2	Zone Tested	
Company	WOODSIDE (L.E.) OIL CO.	Date	1/2/65
Comp. Rep.	J. Perryman	Tester	P.W. Stephens

Recorder No. 2237..... Clock Range 12 hrs. Recorder No. 2238..... Clock Range 24 hrs.

Depth 4760'..... Depth 4818'

Initial Hydro Mud Press..... Initial Hydro Mud Press.....

Initial Shut-in Press..... Initial Shut-in Press.....

Initial Flow Press..... Initial Flow Press.....

Final Flow Press..... Final Flow Press.....

Final Shut-in Press..... Final Shut-in Press.....

Final Hydro Mud Press..... Final Hydro Mud Press.....

Temperature N.R. Tool Open Before I.S.I. Mins.

Mud Drop ? Initial Shut-in Mins.

Mud Weight 10.1 Viscosity 50 Flow Period Mins.

Fluid Loss 7 Final Shut-in Mins.

Interval Tested 4771 - 4825 Surface Choke Size -

Net Pay Tested Bottom Choke Size 2 1/2"

Top Packer Depth 4771 Main Hole Size 8 3/4"

Bottom Packer Depth 4825 Rat Hole Size -

Total Depth 5358 (Driller) Feet of Rat Hole

Drill Pipe Size 4 1/2" I.D. Wt. 16.6 Type of Test Single Straddle

Drill Collar I.D. 2 13/16" Ft. Run 267 Cushion Amount Type

Anchor Size 4 1/2" / 4 1/4" Rubber size 8"

Recovery - Total Feet

Recovered Feet Of

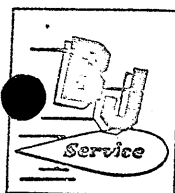
Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Remarks

Tool could not be run to bottom - Hung up when Bullnose at approx. 3650' Pulled tool from hole without testing.



## DRILL-STEM TEST DATA

Well Name	WOODSIDE SEASPRAY	Test No.	2
Well Number	2	Zone Tested	
Company	WOODSIDE (L.E.) OIL CO.	Date	3/2/65
Comp. Rep.	C.MANN	Tester	R.W. STEPHENS

Recorder No. .... Clock Range. .... Recorder No. 2238 ..... Clock Range. 24 hrs.

Depth. .... Depth. 4832'

Initial Hydro Mud Press. .... Initial Hydro Mud Press. ....

Initial Shut-in Press. .... Initial Shut-in Press. ....

Initial Flow Press. .... Initial Flow Press. ....

Final Flow Press. .... Final Flow Press. ....

Final Shut-in Press. .... Final Shut-in Press. ....

Final Hydro Mud Press. .... Final Hydro Mud Press. ....

Temperature. N.R. .... Tool Open Before I.S.I. .... Mins.

Mud Drop. .... Initial Shut-in. .... Mins.

Mud Weight. 10.1 ..... Viscosity. 50 ..... Flow Period. .... Mins.

Fluid Loss. 7 ..... Final Shut-in. .... Mins.

Interval Tested. 4771 - 4839 ..... Surface Choke Size. ....

Net Pay Tested. - ..... Bottom Choke Size. 1/2"

Top Packer Depth. 4771 ..... Main Hole Size. 8 3/4"

Bottom Packer Depth. 4839 ..... Rat Hole Size. ....

Total Depth. 5358 (Driller) ..... Feet of Rat Hole. ....

Drill Pipe Size. 4 1/2" I.F. .... Wt. 16.6 ..... Type of Test. Single Straddle

Drill Collar I.D. 2 13/16" Ft. Run. 267 ..... Cushion Amount—Type. ....

Anchor Size. 4 1/2" / 4 3/4" ..... Rubber size. 8"

Recovery—Total Feet. ....

Recovered. .... Feet Of. ....

Recovered. .... Feet Of. ....

Recovered. .... Feet Of. ....

Recovered. .... Feet Of. ....

Remarks

Tool could not be run to bottom. Hung up when bullnose at approx. 3650' pulled tool from hole without testing.

**APPENDIX 6.0...**

42 P.E.P.

**WOODSIDE (LAKES ENTRANCE)**

**OIL COMPANY NO LIABILITY**

Cable Address: "OILCO" Melbourne

**NOTE**

Registered Office:

792 Elizabeth Street, Melbourne, C.1

Share Office:

254-260 Queen Street, Melbourne, C.1

Registered Office: **TELEPHONES: 34 6093, 34 4189**

**34-8011 (4 Lines) TELEPHONES: 67 1415, 67 1416**

CWM:10

January 7, 1965.

The Secretary for Mines,  
Department of Mines,  
Treasury Place,  
MELBOURNE.



Dear Sir,

It is our intention to drill three, possibly four test wells in Gippsland, Victoria. The name, project depths and co-ordinates of these wells are as follows :-

- |                          |                             |
|--------------------------|-----------------------------|
| 1. North Seaspray No. 2. | Depth 5000 ft.              |
| Lat. 38° - 17' - 58"     | Long. 147° - 12' - 25" East |
| 2. Lake Reeves No. 1.    | Depth 7500 ft.              |
| Lat. 38° - 19' - 42"     | Long. 147° - 15' - 2" East  |
| 3. Lake Denison No. 1.   | Depth 7000 ft.              |
| Lat. 38° - 23' - 31"     | Long. 147° - 8' - 41" East  |
| 4. Golden Beach No. 1.   | Depth 7500 ft.              |
| Lat. 38° - 14' - 42"     | Long. 147° - 21' - 23" East |

Drilling operation to commence on 31st January, 1965.

Yours faithfully,  
WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

*C. W. Mann*  
**C. W. MANN**  
Drilling Manager

*Mr Kenley 8/1/65 MM*

*Noted. Refer to Mr Becking for suggestions & coming please OK K 1/2/65 No other well data of surface level, well diam., casing proposals yet supplied.*

**WOODSIDE (LAKES ENTRANCE)  
OIL COMPANY NO LIABILITY**

Cable Address: "OILCO" Melbourne

Registered Office ~~and Share Office~~

792 Elizabeth Street, Melbourne, C.1 . . . . . TELEPHONES: 34 6093, 34 4189

Share Office:

254-260 Queen Street, Melbourne, C.1 . . . . . TELEPHONES: 67 1415 67 1416

February 2, 1965.

*PRESS RELEASE*



STOCK EXCHANGE AND PRESS RELEASE:

Woodside (Lakes Entrance) Oil Co. N.L. reports that its North Seaspray No. 2 well was spudded in at 4.30 a.m. on Tuesday.

The well is being drilled down the flank of a structure in which petroliferous gas was encountered in the North Seaspray No. 1 well.

North Seaspray No. 2 well will have a target depth of 5,000 feet and is the first of a series of wells planned by Woodside in its Gippsland areas.

A seismic survey is also currently being carried out over these areas.

REES B. WITHERS

Managing Director

*W. B. Withers*

**WOODSIDE (LAKES ENTRANCE)  
OIL COMPANY NO LIABILITY**

Cable Address: "OILCO" Melbourne

Registered Office:  
792 Elizabeth Street, Melbourne, C.1

Share Office:  
254-260 Queen Street, Melbourne, C.1

**NOTE**

Registered Office:

TELEPHONES: 34 6093, 34 4189

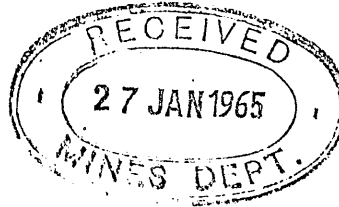
34-8011 (4 Lines)

TELEPHONES: 67 1415, 67 1416

NB/MP

26th January, 1965

The Secretary for Mines,  
Mines Department,  
Treasury Place,  
Melbourne. C.2



Dear Sir,

We wish to confirm our conversation over the telephone this morning with Mr. N. Mace and to inform you that we intend spudding in Well North Seaspray No. 2 on 1st February, 1965.

This Well is situated approximately  $\frac{1}{2}$  mile due south of Well North Seaspray No. 1, which produced petroleum gas. The intention is to test the same sands, in the hope that they may be thicker at the presently proposed location.

We note that our drilling programme is about to be submitted for the Minister's approval and that there is no objection to our commencing drilling on the date stated above.

We shall submit weekly reports of operations and shall be glad to submit all our samples to The Mines Department and otherwise keep you informed at all stages of our operations.

Yours faithfully,  
WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L.

N. BOUTAKOFF, D.Sc.  
CHIEF GEOLOGIST

*Copy to Mr. Kenly  
29.1.65*



N.S. 2

12th January, 1965

MEMORANDUM FOR:

A/g. Director of Geological Survey

Mr. P.R. Kenley asked me to keep an eye on his work wherever possible and to submit any comments I may have through you.

Re: Woodside (Lakes Entrance) Oil Company's proposed drilling programme in Gippsland.

By letter dated January 7th, 1965 and addressed to the Secretary for Mines Woodside have advised us their intention to drill three, possibly four, test wells. They have given us:

1. Name proposed
2. Location proposed
3. Depth proposed

However, they have not indicated in which tenement these wells will be drilled. I have plotted the positions and it would seem that P.E.P.44 and P.P.L.160 are involved.

With respect to P.P.L.160 i.e. Lake Denison No. 1 well. This well should not be drilled within 150 feet of the outer boundary of the licence area. This proposed location seems to comply with the Act. 4.

With respect to P.E.P.44 i.e. North Seaspray No. 2, Lake Reeves No. 1 and Golden Beach No. 1 wells the regulation states that the following information must be given in addition to that already supplied:

1. "Distance from the nearest boundary of the area covered by the permit".
2. "When possible the elevation of the derrick floor, i.e. height above sea level".
3. "Diameter of proposed bore or well at surface".
4. "The method of drilling proposed to be used".
5. "The extent to which coring is intended".

The act also states that "The holder of a permit shall not undertake any drilling operations without the consent in writing of the Minister".

It is felt that Woodside should be requested to comply with the provisions of the act and regulations as indicated above.

Should you require me to do further work on this matter, please advise me.

P. W. BOLLEN

P.R.K. Suggest to me  
the or J. Kenley  
for further Delta

Check whether drilling is not for data  
Woodside the way as necessary

(1-5)  
Further  
P.R.K. 5/2/65

ENCLOSURES....

PE906180

This is an enclosure indicator page.  
The enclosure PE906180 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE906180 has the following characteristics:

ITEM\_BARCODE = PE906180  
CONTAINER\_BARCODE = PE906182  
NAME = Geology and Gravity Contours Map  
BASIN = GIPPSLAND  
PERMIT = PEP160  
TYPE = GENERAL  
SUBTYPE = GEOL\_MAP  
DESCRIPTION = South-eastern Victoria Geology and  
Gravity Contours Map (enclosure from  
Well Summary) for North Seaspray-2  
REMARKS = colour  
DATE\_CREATED =  
DATE\_RECEIVED =  
W\_NO = W487  
WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR =  
CLIENT\_OP\_CO = WOODSIDE OIL COMPANY

(Inserted by DNRE - Vic Govt Mines Dept)

PE906181

This is an enclosure indicator page.  
The enclosure PE906181 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE906181 has the following characteristics:

- ITEM\_BARCODE = PE906181
- CONTAINER\_BARCODE = PE906182
- NAME = Drill Stem Tests
- BASIN = GIPPSLAND
- PERMIT = PEP160
- TYPE = WELL
- SUBTYPE = DST
- DESCRIPTION = Drill Stem Data and Report (enclosure  
from Well Summary) for North Seaspray-2
- REMARKS = contains 2 DST photos in a cardboard  
folder
- DATE\_CREATED = 1/02/65
- DATE\_RECEIVED =
- W\_NO = W487
- WELL\_NAME = NORTH SEASPRAY-2
- CONTRACTOR = B.J.SERVICE (AUSTRALIA) PTY. LTD>
- CLIENT\_OP\_CO = WOODSIDE OIL COMPANY

(Inserted by DNRE - Vic Govt Mines Dept)

PE603560

This is an enclosure indicator page.  
The enclosure PE603560 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE603560 has the following characteristics:

ITEM\_BARCODE = PE603560  
CONTAINER\_BARCODE = PE906182  
NAME = Composite Well Log (1 of 2)  
BASIN = GIPPSLAND  
PERMIT = PEP160  
TYPE = WELL  
SUBTYPE = COMPOSITE\_LOG  
DESCRIPTION = Well Completion Log (part 1 of 2),  
enclosure form Well Summary, for North  
Seaspray-2  
REMARKS =  
DATE\_CREATED = 4/03/65  
DATE\_RECEIVED =  
W\_NO = W487  
WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR =  
CLIENT\_OP\_CO = WOODSIDE OIL COMPANY

(Inserted by DNRE - Vic Govt Mines Dept)

PE603561

This is an enclosure indicator page.  
The enclosure PE603561 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE603561 has the following characteristics:

ITEM\_BARCODE = PE603561  
CONTAINER\_BARCODE = PE906182  
NAME = Composite Well Log (2 of 2)  
BASIN = GIPPSLAND  
PERMIT = PEP160  
TYPE = WELL  
SUBTYPE = COMPLETION\_LOG  
DESCRIPTION = Well Completion Log (part 2 of 2),  
enclosure from Well Summary, for North  
Seaspray-2  
REMARKS =  
DATE\_CREATED = 4/03/65  
DATE\_RECEIVED =  
W\_NO = W487  
WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR =  
CLIENT\_OP\_CO = WOODSIDE OIL COMPANY

(Inserted by DNRE - Vic Govt Mines Dept)

PE604526

This is an enclosure indicator page.  
The enclosure PE604526 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE604526 has the following characteristics:

- ITEM\_BARCODE = PE604526
- CONTAINER\_BARCODE = PE906182
  - NAME = Mud Gas Detection Chart
  - BASIN = GIPPSLAND
  - PERMIT = PPL/160
  - TYPE = WELL
  - SUBTYPE = DIAGRAM
- DESCRIPTION = Mud Gas Detection Chart (enclosure from  
Well Summary) for North seaspray-2
- REMARKS =
- DATE\_CREATED = 27/02/65
- DATE\_RECEIVED =
- W\_NO = W487
- WELL\_NAME = NORTH SEASPRAY-2
- CONTRACTOR =
- CLIENT\_OP\_CO = WOODSIDE (LAKES ENTRANCE)

(Inserted by DNRE - Vic Govt Mines Dept)

PE604524

This is an enclosure indicator page.  
The enclosure PE604524 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE604524 has the following characteristics:

ITEM\_BARCODE = PE604524  
CONTAINER\_BARCODE = PE906182  
NAME = Electrical Log  
BASIN = GIPPSLAND  
PERMIT = PPL/160  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Electrical Log, 1" = 100', (enclosure  
from Well Summary) for North seaspray-2  
REMARKS =  
DATE\_CREATED = 28/02/62  
DATE\_RECEIVED =  
W\_NO = W487  
WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR = SCHLUMBERGER  
CLIENT\_OP\_CO = WOODSIDE (LAKES ENTRANCE)

(Inserted by DNRE - Vic Govt Mines Dept)



PE604525

This is an enclosure indicator page.  
The enclosure PE604525 is enclosed within the  
container PE906182 at this location in this  
document.

The enclosure PE604525 has the following characteristics:

ITEM\_BARCODE = PE604525  
CONTAINER\_BARCODE = PE906182  
NAME = Electrical Log  
BASIN = GIPPSLAND  
PERMIT = PPL/160  
TYPE = WELL  
SUBTYPE = WELL\_LOG  
DESCRIPTION = Electrical Log, 5" = 100', (enclosure  
from Well Summary) for North seaspray-2  
REMARKS =  
DATE\_CREATED = 28/02/62  
DATE\_RECEIVED =  
W\_NO = W487  
WELL\_NAME = NORTH SEASPRAY-2  
CONTRACTOR = SCHLUMBERGER  
CLIENT\_OP\_CO = WOODSIDE (LAKES ENTRANCE)

(Inserted by DNRE - Vic Govt Mines Dept)