

Natural Resources and Environment



AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

WELL COMPLETION REPORT NORTH SEASPRAY - 2

(W487)

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Manager Geological Survey Vic Manager Mineral & Petroleum C	toria Operations	MGSV MMPO	Valuer General Director Land Registr		VG DLR DCLM
Manager Minerals Development Manager Extractive Industries	•	MMD MEI MMPT	PORTFOLIO M		DOLIN
Manager Minerals & Petroleum PRIMARY INDUSTRIE			Director Water Agence	ties	DWA MPC
SCIENTIST		14000	Manager Portfolio Co Manager Environmen Manager Policy Supp	ital Policy	MEP MPOS
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Director Bureau of Animal Welfi Director Fisheries	are	DBAW DF			
Director Quality Assurance Director Agribusiness		DQA DA		•	

WELL SUMMARY NORTH SEASPRAY-2 (W487)

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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

SUMMARY. I.

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° 18' 07" South Latitude, 147° 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.

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. Boutakoffs 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.

WELL HISTORY.

1. General Data.

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

North Seaspray No.2. Latitude: 38° 47 South Longitude 147° 12' 5" East. Parish of Wulla Wullock, County of Buln Buln, Shire of Rosedale, 17 miles S.S.E. of Township of Sale. Lakes 0il Ltd., 792 Elizabeth Street, Melbourne, Victoria.

(c) Name and address of Tenement Holder:

Gippsland, Victoria. (d) District: P.P.L. 160 issued by the Details of Petroleum (e) State of Victoria. Tenement: 5358 feet Total depth (f) Date drilling (g) 2nd February, 1965 commenced: Date drilling (h) 22nd February, 1965 completed: 4th March, 1965 Date well completed (i)6th March, 1965 Date rig released: (j) Drilling time to (k) 20 days. total depth: Ground 77 feet. R.K.B. 89 feet. Elevation: (1)Abandonment - Dry Hole. Status: (m)£41,045 as at 31.10.1965. (n) Costs: Subject to audit. DRILLING DATA: 2. Reading & Bates (Aust.) P/L Drilling Contractor a. 100 Collins Street, Melbourne. C.1. Victoria. Drilling Plant b. National Make 50 Rated capacity with $4\frac{1}{2}$ " 7500 feet. Drillpipe General Motors Motors: Make 2 only twin 6-71 Diesel Type 312 Continuous в.н.Р. Mast c. Lee C. Moore Make 131 feet. Cantilever Type 500,000 lbs. Rated Capacity d. Pumps National Make No.1. C 250 Type $7\frac{1}{4}$ " x 15" Size General Motors Motor: Make Twin 6-71 Diesel Type 312 Drawworks compound B.H.P. National Make No.2. C 250 Type $7\frac{1}{4}$ " x 15" Size General Motors Motor: Make Twin 6 - 71 Diesel Type 306 Independent Drive B.H.P Blowout Preventer Equipment ė. Cameron 1. Make 12" Type 'SS' Size 900 Series Hydril 2. Make 12" Type GK Size

900

Series

f. Holes & Depths

20" $12\frac{1}{4}"$ 880 feet $8\frac{3}{4}"$ 880! 835 880! 880!

g. Casing & Liner details

138" Size Conductor Pipe 481bs Weight H 40 Grade 44 feet K.B. Setting Depth 9暮" Size Surface String 2. 461bs Weight Grade J 55 11 Range 818 feet K.B. Setting Depth

h. Casing Cementing Details

1. Size
Setting Depth
44 feet K.B.
Quantity cement used
Cement to
Method

Surface
Drilled & set by W.L.Sides & Sons Ltd.

2. Size 95 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 Fluid

1. 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

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

3. Average Weekly Mud Analysis

Week	Depth feet.	Weight lbs/gal	Viscosity Secs.		FC ins.	рН	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
Depth
Casing used
Brass screen
Supply

6" x 110 feet.
700 g.p.h. plus

k. Perforations

Nil

1. 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 $7\frac{7}{8}$ " 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

Nil

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.

Core No.	Interval	Core barrel	Size Core-head
1.	3930' - 3948'	Christensen	6 ¹ / ₈ " Diamond
2.	3950' - 3957'	Hughes Type 'J'	83 Soft form.
3.	4340' - 4352'	tt tt	83 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 Geolograph 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 -

Deptl	1		Ī	Deviation	(degrees)
127 625 880	feet "			1/24-1/24-1/24	
2124 _. 2800	84			3 . 2	
3050 3765	99 18			2 1 ¹ / ₄	
4740 5290	99			34 1 2	

h. Temperature Survey Nil

i. Other Surveys

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.

N₁1

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 analized 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 twistoff 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°) hole deviation at this level, totally prevented any cablesuspended 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 intervales: 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

```
12\frac{1}{4}" REED T, Surface
                                           880 feet .
                                     to
Bit 1
          8\frac{3}{4}" HUGHES OSC-3 880'-to.
                                           2124 feet.
          8\frac{3}{4}" HUGHES OSC-3 2124' to
                                           3217 feet
    3
          8\frac{3}{4}" HUGHES OSC-3 3217' to
                                           3762 feet
          8\frac{3}{4} HUGHES OSC-3 3762 to
                                           3930 feet.
    5
               HUGHES OSC-3 3948' to 3950', RR 3957-4128 feet
          8<del>3</del> "
    6
                                           4340 feet
               HUGHES OSC-3 4128' to
          8311
    7
          8\frac{3}{4}" HUGHES OSC-3 4352' to
                                           4749 feet
    8
                                           5074 feet
          83"
              HUGHES OSC-3 4749' to
    9
                                           5294 feet
          83" HUGHES OSC-3 5074' to
   10
                                           5358 feet (T.D.)
          8\frac{3}{4}" HUGHES OSC-3 5294' to
   11
Core Bit 1 6% CHRISTENSEN DIAMOND 3930-3948 feet (destroyed)
Core Bit 2 8\frac{3}{4}" HUGHES J-BLADE 3950' to 3957 feet
```

Core Bit 3 83" HUGHES J-BLADE 4340' to 4352 feet

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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 Tertary 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 Eccene 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.

10.

•		TABI	L E	
Age	Name	Depth (Ref KB)	Thick- ness	Lithology
U.Pliocene	Lake Welli Fm, and/or Haunted Hi Gravels		369 '	Sand, Gravel and Clay.
L.Pliocene	Jemmy's Po Formation	int 320'	60 •	Sand, Shells and minor Marl
U.Miocene	Tambo Rive Formation	r 430'	170	Marl, with minor Limestone
Miocene	Gippsland Limestone	1690'	1540'	<u>Limestone</u> and <u>Marl</u>
Oligocene	Lakes Entr	ance 2120	515'	Calcareous <u>Shale</u> and <u>Marl</u>
L.Oligocene to U.Eocene	Latrobe Valley Coal Measures	40001	1877'	Sandy, Coal and Clay
Lower Cretaceous	Strzelecki Group	53581	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 \underline{Sand} and \underline{Shells} (possibly contamination).

430 - 1690 feet.

Gippsland Limestone

Miocene

From 610 to 1440 feet <u>Limestone</u>, white, gray and cream, fine-grained, very fossiliferous, friable to medium hard, slightly glauconitic, becoming argillaceous in lower part. From 1440 to 1950 feet <u>Marl</u>. light to medium gray and gray green, partly silty, fossiliferous, slightly glauconitic, soft to friable and <u>Limestone</u>, as above. Grades downward into <u>Shale</u>. From 1950 to 2150 feet <u>Shale</u>, 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 <u>Graywacke</u>, 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 <u>Mudstone - Claystone</u>, light gray, soft; <u>Shale</u>, gray to green, often carbonaceous, firm; and <u>Siltstone</u>, 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 claychlorite 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:

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APPENDIX 3.0....

COMPANY WOODSIDE

DAILY	DRILLING REPORT
WELL N. SEASPRAY No. 2 Rep	ort No Date_2 FER 65
Depth at 8.00 a.m. 127 Ope:	ration at 8.00 a.m. SD for flow plate adjust
Hole made in 24 hrs. 127 Hour	rs Rotating 1/2 Rate approx 2'/min.
Drilling WtR.P.M.	Pump Press
MUD Wt/S.G. Vis.Sec W.L.C.C. Coke	COLLOI
	(water mad)
No. Size Make Type Serial Fr	om To Feet Hrs. Wt. R.P.M. Pump Condition
BITS 1 1214 R T 34225 SW	es (122) (122) (122)
	RUN
SURVEY	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	no to colonless, finly cemented) 410-90
Changas blacks aumany clay	gumbo 90-110; Comse sandatore
Com No dulled) 110-127+.	gumbo 90-110; course sandstone
	Feet Cut RecCore Diam
Description	
	1.
DST NoInterval	ISIFLOWFSI
IHP ISIP IFP FFP	FSIP FHP
BHT Chokes: BH Surface:	Rec
Remarks Spudded 41:30 A	M 2 February, 1965.
	J'
30 50 6.	

COMPANY WOODSIDE RECEIVE DAILY DRILLING REPORT 8 FEB1965 WELL N. SEASPRAY No. 2 Report No. 2 M&Dimmostana Depth at 8.00 a,m. 630 Operation at 8.00 a.m. Hole made in 24 hrs. 630 Hours Rotating 13/2 _Rate av. M' por mine **5** R.P.M.___ 120 Pump Press___ Wt/S.G. Vis.Sec W.L:C.C. Hg Coke Sand Other MUD Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition ITS 12/4 Reed 34225 Sent (630)(630)(63) 5 120 605PM Run. 120 127' SURVEY Lithology 110 to APPROX. 275: Sands and gravels of L. Wellington Fm 275 - 560 fossliferons gray marl probable. Jemmis Von 560 to present depth, firm fossilif man Core: No. ____ Interval Feet Cut Rec. Core Diam. Description____ DST No. ____Interval _____ISI _____FLOW _____FSI ____ ISIP IFP FFP FSIP FHP IHP Chokes:BH Surface: BHT \mathtt{Rec} . 590

COMPANY Woodside	Form/5
WELL 1. Leaspray 2 Report No. 3	3/18/1965 Date 4 Feb. 65
Depth at 8.00 a.m. 330 Operation at 8.00 a.m.	em to Acut (2000)
Hole made in 24 hrs. 250 Hours Rotating 23/4	
Drilling Wt. 5 R.P.M. 120 Pump-Press	<i>'</i>
MUD Wt/S.G. Vis.Sec W.L.C.C. Coke pH Sand	Other
- 30-35	
No. Size Make Type Serial From To Feet Hrs. Wt.	R.P.M. Pump Condition
PITS 1 124 Reed T 34225 Smf 880 880 16/2 5	56 Green
SURVEY 625' 1/2° 880', 1/2°	
Lithology Sandy fossiliferons soft gray m	as and mina
clays with little lithologic variation	
present depthis	
Core: No Interval Feet Cut Re	c. Core Diam.
Description_	9019 21411
	¥ .
DST No Interval ISI F	LOW FSI
IHP ISIP IFP FFP FSIP FHP	
BHTChokes:BHSurface:Rec	
Remarks Fast drilling rate has hanger	ed reliable
lethologic interpretation	
Lack of spider mosterda.	prevented running
paring as planned; raw pie bac	in hole and
circulated this AM. Required	aginament obtained
locally this AM.	
8	A LOCAL MARKET AND A LOCAL MARKE

COMPANY	Λ	loodside	
	_		

DAILY DRILLING REPORT	
WELL h. Seaspray As. 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. O Hours Rotating O Rate	
Drilling Wt R.P.M Pump Press	
. 3	
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 Condi	tion
BITS	
SURVEY	
Lithology	
	
Core: No Interval Feet Cut Rec Core Diam	
Description	-
DST No. Interval ISI FLOW FSI	1
THP ISIP IFP FFP FSIP FHP	
BHTChokes:BHSurface:Rec	
Remarks Set 95/8" Casing at 819' (818.9) cement w/270 Sacks convent; operation completed 3:15 PM yesterday.	te D
w/270 Sacks coment. operation complete	1
Dir DAA +	
5.13 TVI VERGIDAL	
5.13 My gerterday	
5.13 TVI gesterday	

COMPANY WOODSIDE

WELL N. SEASPRAY No. 2 Report	RILLING REPORT	D-4- /	7.1 1915
Depth at 8.00 a.m. 880 Opera			
Hole made in 24 hrs Hours		,	
Drilling Wt R.P.M			
MUD Wt/S.G. Vis.Sec W.L.C.C. Coke	o ^H Sand	Other	
No. Size Make Type Serial From	n To Feet Hrs	.Wt. R.P.M.	Pump Condition
BITS —			
SURVEY			
Lithology			
Core: No Interval	Feet Cut	RecC	ore Diam
Description			
· · · · · · · · · · · · · · · · · · ·	·····		
	TOT	TT OU	DOT.
INO ISIP IFP FFP		TLOW FHP	F51
BHT Chokes:BH Surface:	Rec		·
Remarks Completin Mipplin	-110 · P	hould on	essus.
to to test casin	Coment	and dri	ll a hoad
This morning.)		
j			

					DAII	Y DRI	LLING	REPO	RT				
WELL N. SEASPRAY No. 2 Report No. Lo 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 pH Sand Other													
MUD		~*											
	No.	Size	,		Serial	1	То	7	1		 	Pump	Condition
BIT	S 2	83/4	H	c3	68249	880	(1380)	(500)	5	8	60	500	(RUN)
									·				
SUR	VEY	N	ONE										
Lit	hology_	88	0'7	o Pi	RESERT	DE	07H:	MA	RL,	LT.	GRAY	1, So.	FT,
	CLAY	YEY	, CE	LC	V. FO	SSILI	F	SL.		Y=			
Made areas a selec		,											
Core	e: No		Inter	val			_Feet (Cut		_Rec.		Core D	iam
	Descri	iption			· · · · · · · · · · · · · · · · · · ·								
													1.
DST	No .	<u> </u>	nterva	1			ISI _			FLO	N		FSI
THP			SIP		FFP			·					
BHT_		Ch	okes:B	H	Surface	:	F	Rec					
Rema	arks	DI	rill	ر ل	nt pl	ug	IOP	M	<u>, d</u>	rella	d or	tc	ement,
	Lhoe	HO)	nd	Au						ly		A	<u>M</u>
_0	bull	1	int	lul	on 8	80 0	at	3	A	M.			
R	lin	la	ains	مو	esure	l.	010	800	t # F	si	hol	lo	Κ.,
,	N	•		1 V 1	0 1000		•		•				Do Dama
		4			hold c	•	,			A		/ce	neut
	1.	A	7	_	500 00		٠.			*		<i>'</i>	

RECEIVED Form 5 COMPANY WOODSIDE DAILY DRILLING REPORT 10 FEB 1965 _____Date_ 8 FEB 65 WELL N SEASPRAY No. 2 Report No. 7 Depth at 8.00 a.m. 2313' Operation at 8.00 1180 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 Wt/S.G. Vis.Sec W.L:C.C. Coke Sand Other 25+ Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition I COME LACKED 68249 880 2124 1244 214 15-20 120 500 TI-84-0 69491 2124 (2313)(89)(1) 20 120 500 RUN. 2124 74 3/4 SURVEY gray sticky clay man Lithology occasionall Rett. Propert depth: cros side, gray clays, minor costs; 100% cost Core: No. ___ Interval Feet Cut Rec. Core Diam.___ Description____ DST No. Interval ISI FLOW FSI ____ ISIP IFP FFP FSIP FHP Rec. Chokes:BH Surface: Remarks 2060

MUD

BITS 2

IHP

BHT

915 AM depth 2434; replacing mud

COMPANY WOODSIDE Form 5	
105E31965 DAILY DRILLING REPORT Partial L Circulation	ي
WELL N. STASPRAY No. 2 Report No. 8 Date 9 FEB 65	
Depth at 8.00 a.m. 3217 Operation at 8.00 a.m. Thepring for let che	Ingle
Hole made in 24 hrs. 904 Hours Rotating 1634 Rate av. 1 / miw.	0
Drilling Wt. 18-20 R.P.M. 120-140 Pump Press 500	
MUD $Wt/S.G.$ Vis.Sec W.L.C.C. Coke pH Sand Other 9.2 35.40 25 $3/32$ $ -$	
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condit	ion
BITS 3 834 H 05 69491 2124 3217 1093 1734 18-20 120-140 500 RUN	
SURVEY	
Lithology Predom. brown coals asso, w/variable quantities of	very
coarse quarty sandatones, the latter abund between 2400 and 25 and below 3125 to present depth.	000
Core: No Interval Feet Cut Rec Core Diam	
Description	
	· ·
DST No Interval ISI FLOW FSI	
IHP ISIP IFP FFP FSIP FHP Chokes:BH Surface: Boo	
BHT Chokes: BH Surface: Rec. Remarks Rotating characteristic at 3217 suggested possible	
locked cone while cerculating prior to pulling ont, experien	
partial LC, app probabily into sandstones divided below 31	1.J.C.
Total providing the second second	~ \(\mathred{U}_{\tau} \)
Elocument dilliculties wil formation on situania to late	au.
Experienced difficulties in formation on returning to lotte Ausain much slow. Started miling Just LC maleuall	MICA-)
Experienced difficulties in formation on returning to lotte Ausging much flow. Started mying first LC moleriall' at 10:915 AM. By RAM, had mijed and pumped down 40.	MICA-)

DAILY	DRILLING	REPORT

WELL <u>İ</u>	1.5	EAS	SPRAY	No.	,2	Report	No	9		Da	ate 10 1	FER	65
Depth at 8.00 a.m. 3217 Operation at 8.00 a.m. Making up Mud													
	Hole made in 24 hrs. O Hours Rotating O Rate —												
Drilli	Drilling WtR.P.MPump Press												
Wt/S.G. Vis.Sec W.L.C.C. Coke pH Sand Other													
MUD 8.9 37													
•													
1	No.	Size	Make	Type	Serial	From	То	Feet	Hrs	Wt.	R.P.M.	Pump	Condition
BITS	3	2.		65							 		T3-B2-1/8
	4	83/4	HTC	C3 02	68233	3 3217							
L			<u> </u>										
SURVEY	Υ												
Lithol	logy_										·		
					· · · · · · · · · · · · · · · · · · ·								
				·*·									
Core:	No 🗓		Inter	val			_Feet	Cut		Rec.	·	Core I	Diam
De	escri	ption	·										
			,	·		, -							
DST No	o <u> </u>	<u> </u>	nterva	1			.ISI _			FLC)W		FSI
IHP		I	SIP	_ IFP_	FI	?P	FSI	P	F	HP		<u></u>	
					Surfac			•					
Remark	ks_/	yhile	e all	temp	ting to	mer	حس	<u>, l</u>	<u> </u>	yest	terla	m	ming ,
pip	20	bec	ane	al	طميد	j pin	ا	was	\	reed	lu	-10	rung
-yoi	عله	da.	1 2	معصم	·	Wir	00	يحبير	امد	ulle	d o	1	for
Y.	1	<u>ck</u>	2 ang	9	, and	Λ0	- <u>Ju</u>	w t	0/	near	e bot	ton	· for
M	- 17		em	liti	oning	ope	rate	in					V
					0	V				_			

COMPANY WOODSIDE

DAILY	DRILLING	REPORT

WELL N. SEASPRAY No. 2 Report No. 10 Date 11 FER 65												
Depth at 8.00 a.m. 3370 Operation at 8.00 a.m. Dilling												
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. <u>5-10</u> R.P.M. <u>120</u> Pump Press <u>700</u>												
MUD Wt/S.G. Vis.Sec W.L:C.C. Coke pH Sand Other 9.1 55 6 2/32 7-8												
19.1 35 6 732 7-8												
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition												
BITS 4 83/4 HTC 05 68233 3217 () ()5-10 120 700 RUN												
SURVEY												
Lithology 1007 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 curulated out												
Cavings and cuttings yesterday PM; on gradually yorking be												
Carings and cuttings yesterday PM; on gradually yorking to downered, h. C. was unual experience of on reaching to the (6 PM)												
Pulled up to 2875 to condition mud. Started dilling below												
3217 at 6 AM today Famation: Coal.												
<u> </u>												

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. Dilling												
Hole made in 24 hrs. 444 Hours Rotating 143/4 Rate w, 30/hw,												
Drilling Wt. 10/15 R.P.M. 120 Pump Press 700												
W+/S G Vis Soc W L:C.C. Coke nH Sand Other												
MOD												
19.3 56 4.4 /32 9 - 1 -												
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition												
BITS 4 83/4 HTC 05 682333214 3762 545 15/2 10-15 120 700 T3-B2-18												
5 834 HTC C3 6949 3762 (3814) (51) (1/2) 15-10 120 700 RUN												
SURVEY 3765', 1/4°												
Lithology Coals with associated (interhedded) very coarse												
cleane, un consolidated nounted-quarty-grain pandatione												
- clane, unconsolidatel hounted -quarty-grain paintaline												
Correct No. — Interestal Dec. Correction Dec. Corrections												
Core: No Interval Feet Cut Rec Core Diam												
Description												
DST No. Interval ISI FLOW FSI IND												
IHP ISIP IFP FFP FSIP FHP												
BHT Chokes: BH Surface: Rec.												
Remarks												
,												

					DAI	LY DRI	LLING	REPO	RT				
	well N	SEAS	PRAY	No.	2	Report	No1	2		Da	te_ <u>13</u>	FER	3 65
	Depth a	at 8.00 a	a.m. <u> </u>	948	3	Operati	on at 8	3.00	a.m.	Layin	y don	~ co	re barrel
	Hole ma	ade in 2	4 hrs	13	H'	Hours R	otating	C	13/4	Ra	te 1- 3	min	/tt
	Drilli	ng Wt	10		R.P.M.	120	<u> </u>	P	ump P	ress	750		0 <u>1 1 1 1 1 1 1 1 1 1 </u>
	MUD	Wt/S.G.	Vis.Se	c_W.L	¿C.C. Co	ke p ^H	Sar	nd			Other		j.
	MOD	9,2	52	6	.2 2/	32 8.	5 -	-]	•				
	No.	o. Size	Make	Tune	Serial		То	Foot	Hrs.	M+	R.P.M.	Pumn	Condition
	BITS :	2	1	os os		1	4	1	1				T2-B1-0
С <i>В</i> .	₽		+ 11.10	<u> </u>	6949	3	1	ł	3/2		120	<u> </u>	100 %
		6/6/8	С	DIA	CD72	3930	3948	18	3/2	8	60-80	600	DESTROYED
		3	0/2'	<u>-i-</u>	年 14	c							
		egy (%		, = 1	Λ			. 0	/		,	+ 1	with
			τ- Λ	<u>ui 1/</u>	_			´		~ 4			Ã
		Doce		-/12er	of con	0 0-	Pos	4	Cur	A.	to:	26/2	and all
	Core: N	700. l	Inter	$\frac{1}{2}$	930 - 4	R Poo	Feet (eme ut	iti.	in sil	E no	n-cal Core D	iam. 3/3"
(_	4							coloble
		A		Λ	ht col		ν		A	r /		A 4	ess-smot
	, ~~~	·		α	o in. a			٩			<i>-</i> 1 .		Λ
								•		•			
	IHP	-	ISIP	IFP	FF	<u> </u>	FSIF		F	HP		·	
	BHT	Cł	nokes:B	H	Surface	e :	F	lec					
	Remarks	: Cono	no.	1 0	diama	ml l	Lit	Con	plò	tol.	bur	red	ausy
		L. Lan	dest	ay	ed, pr	olol.	Ly &		_,/.	zski		20	Oling.
	Ai	lièza	ma_	pel	elles.	Luc	Ocal	LQ.	ما	from			
		ngla	mero.	te.	h	res /	Lauje	4.	Lou	<u>ل ر</u>	ne l	Jame	l
	- Pro	Pari	a to	8	متدو	Kole		Z/	lit	t h	<u>, '7</u>	Tos	(man)
		dholi	2 0										HANNAN CONTRACTOR OF THE SECOND SECON

	DAILY DRI	LLING REP	ORT_								
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 ho. 2											
Hole made in 24 hrs. 9 Hours Rotating 3 Rate —											
Drilling Wt. 65 R.P.M. 40 Pump Press 600											
Wt/S.G. Vis.Sec W.L:C.C. Coke pH Sand Other											
MUD 9,1 55 6-8 - 8											
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition BITS 6 834 HTC OSC3 69116 3948 50 2 .1 10 120 800 TI-BI-O											
B113 6 874 HTC WC3 60	7116 3948						T1-81-0				
CB2 33/4 HTC BLADE -	- 3950	3957 7	/	65	40	600					
SURVEY			···-								
Lithology COAL AND V	· COARSE	SANDS	NOPE	ES.							
											
Core: No. 2 Interval 395	50 - 59	Feet Cut_		_ Rec		Core D	iam				
Description							· · · · · · · · · · · · · · · · · · ·				
					·····	· · · · · · · · · · · · · · · · · · ·					
	,						I				
DST No. Interval				<u></u>			FSI				
IHP ISIP IFP				HP		<u> </u>	•				
BHT Chokes: BH St	urface:			•		Λ	1 1				
Remarks L (" experienced during coming, probably											
resulting from	lesch	ed CE	^	1	^	А	•				
On Pulling	g out c	an lan	<u>ul,</u>	Lowe	Nh	ole_					
dragging consi	derably !	, hole	ma	y he	_in_						
deteriorating com	detin.			-							
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CONTRA ATTE	VII	oodsid	Λ
COMPANY _	<u> </u>	COUNTA	Υ

	8000			LY DRI				D.	. 15	, I . l	15
WELL M. Slaspray ho. 2 Report No. 14 Date 15 Feb 65 Depth at 8.00 a.m. 3957 Operation at 8.00 a.m. Cleaning Hole											
0											
Hole made in 24 hrs. O Hours Rotating Rate Pump Press Pump Press											
MUD			. a 2/			.na			Other		
	111 90) 6	٠ ۵ /،	32 0	, ,] -						
No.	Size Make		1	T	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS GRA	83/4 HTG	· 053	69116	3957		_	_				RUN.
SURVEY	<u>hil</u>										
Lithology	Contin	ue d	Cools a	nd co	nglu	nera	tes				
***************************************	70.42°.										
(Constant of the Constant of t				·							
											iam
Descr	iption kon	remos	111, Con	glone	rete,	Son	ded	متلتد	pell	les i	pto & dia,
Lat, por	ely porte	<u>d</u> in	emains	lu of	Cen	e ,	Cos	L: du	ll b	loun	-black
block	y , 10-	light	Speci	يت و	rau	ty	٠				
DST No	Interv	al			ISI _			FLO	W		FSI
IHP	ISIP	IFP			- FSI		F	HP		_	•
BHT	Chokes:	BH	Surface	:		Rec					1 ,1
Remarks_	Cepe	1 1	D (on	runn	mg B	po	af	u C	ne ho	2)	at the
3200	3200-foot level (Ad. congl. of previous LC occasion). Most										
0 147	YM E	nigh	t spe	I'm	aki	سه	P.	mud 1	Land	Cu	nditioning
hole	w/ but	<u>at</u> 1.1	copro	7. 2	100°		line	و هلا	1 1 - Terot	med.	night,
Napu	1 hole	deli	morah	in /	has	reg	<u></u>	<u>ed </u>	Dulli	ng (sipp.
up a	erone +	Tu (ist 12	ech a	m 1 a	<u>-</u>			2 guin	go	and depend
My De	nglis,	whe	h url	1 Cm	sum	eal	tla	s J 41	ne me	yt ld	hours.

DAILY	DRILLING	REPORT

WELL N. SEASPRAY No. 2 Report No. 15 Date 16 FEB	<u>65</u>							
WELL N. SFASPRAY No. 2 Report No. 15 Date 16 FEB Depth at 8.00 a.m. 3957 Operation at 8.00 a.m. Clearing hal	<u>Ĺ. </u>							
Hole made in 24 hrs. O Hours Rotating Rate Rate								
Drilling Wt R.P.M Pump Press								
Wt/S.G. Vis.Sec W.L.C.C. Coke pH Sand Other								
MUD 9.1 56 7.2 3/32 9								
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pum								
BITSGRE 83/4 HTC 03 69116 3957	RUN.							
SURVEY hd,								
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; hale bridged. atte								
circulate at 3000', 2965', 2874', and 2422', mil.	Pulled.							
back to 2000' and circulated, conditioning mud including								
lowering viscosity. Have now run in 5 stands,								
lowering viscosity. Have now run in 5 stan	ds,							
lowering viocosity. Have now run in 5 stan circulating after each (to 6 AM today); continue	ds,							

COMPANY WOODSIDE

					DAI	LY DRI	LLING	REPO	RT				
WELL_	V.S)EAS	SPRA	<u>y N</u>	0.2	Report	No	16		Da	te <u> 171</u>	FEB	65
Depth	at 8	.00 a	.m	1128	2(Operati	on at 8	3.00	a.m.	Trip	sing.	for	lit.
Hole m	nade	in 24	hrs	17	<u>'</u>	Hours R	otating	7	14	Ra	te 2 =	1/#	min.
					R.P.M.							•	
	Wt/	S.G.	Vis.Se	c W.L	¿C.C. Col	re pH	Sar	nd			Other	,	
MUD	1			i i	.6 2/			- 1					
•													
	ı	1			Serial	1			7				Condition
BITS (6	8/4	НТС	c3	69116	3957	4128	171	73/4	10	90	800	T2-82-I
													·
SURVEY			·····						 				
Lithol	.ogy	Con	tinu	ر (ك	brown	coal	wit	Lt	Tac	es C	raise	lvo	Je
<u> </u>	rlon	les	Δ 9	ua	tz sa	ndst	enes		·				
		·	į	,	8								
Core:	No		Inter	val			Feet C	ut		_ Rec.		Core D	iam
De	scrip	otion											. :
	_												,
			•										
DST No	•	- II	nterval	L			ISI			FLOW	Ī		FSI
IHP			SIP		FFF					HP			
внт		 Cho	okes:BI	<u> </u>	Surface	:	_						
Remark	1) nil	lod	3 ho		1 6					· co) m	essues
O	int	me a	t	0	ال المعاملات	de A	e.		<u> </u>	,	,		
	20100	<u> </u>			- CCCC- (,	W.Z			******			
***************************************					<u> </u>						· · · · · · · · · · · · · · · · · ·		
											· · · · · · · · · · · · · · · · · · ·		-
V													W Samuel MonWill Parksops

COMPANY WOODSIDE

					DA	ILY	DRI	LLING	REPO	RT				
WELL_	<u>ل</u> ــــــــــــــــــــــــــــــــــــ	Doa	ممم	<u>ay (</u>	ho. 2	_Rep	ort	No	17		Da-	te <u> 18 f</u>	EB	65
Depth	at 8	.00 a	.m. 43	400		. Ope	rati	on at 8	3.00	a.m.S	Startin	g Core	No. 3	3
Hole m	ade	in 24	hrs	212		_ Hou	ırs R	otating	8	3/4_	Ra-	te av	.2m	in/ft.
					R.P.M									
•	k.i+ /	/a c	Wig So	o W T.	ac.c. c	loke	ъH	Sar				Other		
MUD			59	1			9.	I	_			0 01101		- COMPANY OF VANCOUS
	·						1,,	<u> </u>						
-					Serial				1	T	Wt.	R.P.M.	Pump	Condition
BITS	7	83/4	HTC	0S 03	69500	, 4	1128	4340	212	834	5	90	850	TI-B1-I
SURVEY		<u></u>							ļ			ll		
Lithol	ogy	(0	al i	with	traco	·	n (/元人4	2 A	and	lsta	21 , "	Trac	es of
المرا	, ,		,,,,	tà 1	o. 1 fpa	rily	Tgl	ayen	utie	la	lim	431	OA	honed
Lithology Cool, with traces of course sandstones; Traces of fine grained to self-parily of automes below 4310 should mark the base of the Cool measure section														
Core:	No.	3			1340-									iam
			4					-			_			.;
20		P 02011												
DST No	•	, I 1	nterva	<u> </u>				ISI			FLOV	J		FSI
IHP			SIP		F	FP								
BHT_		Ch	okes:B		Surfa								- -	
Remark														
		-		4.										,
		kelitikudhangittikirna s aakan iter						,						

			***************************************											***
······································													· · · · · · · · · · · · · · · · · · ·	

					DAI	LY DR	ILLING	REPO	ORT				
WELL <u></u>	S	EAS	PRAY	· No	,2	Report	No	8		Da	te_ <u>19</u>	FEB	65
)								
Hole m	nade	in 22	4 hrs.	36	0 .	Hours F	Rotatin	<u>g</u>	7 /4	Ra	te <u>3ο</u>	1/hr	av.
Drilli	.ng W	t	0-15		R.P.M.	90		P	ump]	Press	900		
MUD	Wt/	S.G.	Vis.Se	ec W .L	:C.C. Col	ке р	I Sa:	nd			Other	7	1.
MOD			57			32 9.		- 1		_	0 01101		
T N		a.	36.1										
1		Size	1	4	Serial	From	То	Feet	Hrs	. Wt.	R.P.M.	Pump	Condition
BITSC	3-3	844	HTC	BLADE	9510	4340	4352	12	3	6	40	600	OK.
8	-	874	HTC	02C3	18231	4352	4700		133/4	10-15	90	900	Run:
SURVEY_													
Litholo	ogy	10	090	Bro	un C	al la	lelon	5	435	<u>sa</u>	with	1 to	ecesonly
01	gn	ean	sil	tst	one an	Ish	ale,	an	at	racis	ন্	Cuza	0
-C	R CO	nl	us	que	arty	Sau	ds.		, 		D		
Core: N	<u>.</u> . oآ	3_	Inter	val_ <u>4/</u>	340-5	2	Feet C	ut <u>1</u>	ζ	_ Rec	12	Core D:	iam. 3%
Des	scrip	tion_	Sh	ale=	green	4 رم	irm,	Car	lon	acon	no ,	ngn.	
cal	ca	Uon	ر_د	with	abre	nda	at s	ilt	st	reals	1 de	d la	minations
ho	ρ	A)	50	me	s, mo	sh	ws.	D	P	pul	èps	8- to	100,
DST No 2		_ In	nterval				ISI			FLOW		F	rsi
IHP	\angle	_ IS	SIP	IFP_	FFP.		FSIP	****	F	HP			
BHT		_ Cho	kes:BH	I	Surface		Re	ec					
Remarks		Sha	les	econ	ered in	Core	<u>ne</u>	سس	si,	milic	aut i	u qu	outity
in	rub	sequ	unt	di	ll out	tings	_ 4	لىمە	2y (10070	ein	lenn.	ons coal.
cutte	in,	4	to p	Ness	ut de	pth	me	lici	6	retu	n to	Cuz	1
for	. () هــمم	منك	n d	lu t	o eith	u G	nece	eled	17	hicke	ming	. 07	t
faulting with reported section (??)													
		<u> </u>			•		* * * * * * * * * * * * * * * * * * * *				··········		

	WELL N. SEASPRAY No. 2 Report No. 19 Date 20 FEB 65											
WELL N.	<u>Oeas</u>	SPRAY	No	o, 2F	leport	No	19		Da-	te <u>20</u>	FEB	65
Depth at	8.00 8	a.m/	190	9)perati	on at 8	3.00	a.m.[Repaire	ing No	<u>. i Pu</u>	mp.
Hole mad	le in 22	4 hrs	20	9 H	lours R	otating	10	3/4	Ra	te <i>Av</i>	,2 m	in/ft.
				R.P.M						_		
ī.	rt/S.G.	Wig Co	o W T.	¿C.C. Cok	H _q e:	Sar	nd			Other		
MUD	.5	So VIS.SE	i		2 9	T	_ [Odiei		· · ·
• , ^Ł	1.6	76		112 13	ا ا							
No.	Size	Make	Type	Serial	From	То	Feet	Hrs	Wt.	R.P.M.	Pump	Condition
BITS 8	834	HTC	c3	68231	4352	4749	397	16	10-15	90	900	T2-82-I
9	83/4	HTC	c 3	69488	4749	(4909)	(160)	(s's)	15-20	90	900	(Run)
SURVEY_	4-	740	3/4	/ °	1	L	ļ		<u> </u>			
				roun-l	0 - 4	1.	.00 0	71	1	0.06	•	C 0 1 a c
	to and and sittle tone											
	Traces green sellstone. Core: No Interval Feet Cut Rec Core Diam											
Core: No	•	Inter	va⊥			_reet (iut		_ Kec.		Core D	lam
Desc	riptior	1										
												
										 		1
DST No	I	nterva	1			ISI	"		FLOV	I		FSI
IHP	I	SIP	IFP.	FFP	•	- FSII	·	F	`HP			
BHT	Ch	okes:B	H	Surface	:	F	lec		 			
Remarks_												
A CARDO COLUMNO AND A COLUMNO A COLUMNO AND A COLUMNO A											ý	
Ne Sanda Marian Adulta E (27-979), chr delim de marian (1885), pul	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·									
												-
***************************************	· · · · · · · · · · · · · · · · · · ·											

(DAILY DRILLING REP		
WELL M. Leaspray Tho	A Report No. 20	Date <u>21</u>	Feb- 65
Depth at 8.00 a.m. 0507	2 Operation at 8,00	a.m. Installing n	our ut indicat
Hole made in 24 hrs. 165'	Hours Rotating	Rate au	- 2 MIN/FT.
Drilling Wt. 20 R.	P.M. 90	Pump Press_ 900	0
Wt/S.G. Vis.Sec W.L:C.C.	Coke p ^H Sand	Othe	r
MUD 9.7 50 5.8			
		+ II II D D M	D
	al From To Fee	A 1	• • • •
	488 4749 5074 325	1674 20 92	9 900 T2-B2-I
10			
SURVEY	0 - 1		77.
Lithology Continued bron	n coal with	variable mus	or quantities
of Course Sandela	ns and filtel	mes.	
Core: No Interval	Foot Cut	Pop	Coro Diem
	reec ouc_	mec.	_ Oole Diam.
Description			
DST NoInterval	TST	WO.TH	FST
		FHP	
BHT Chokes:BH Su			
-Remarks			
Please send so	balad less	Jour 5.	

	Wood	10110	
COMPANY _	<u> </u>	<u>wax</u>	

	١.,	0		_		LY DRI					_	- 1		,
WELI	Yh.	Dear	pra	n h	0.2	Report	Noo	4		Da	te <u> </u>	Jel	mary	<u>کاما</u>
Dept	ch at 8	3.00 a	M	052	194	Operati	on at 8	3,00	a.m.	Compl	<u>eting t</u>	ripf	m lut	
Hole	made	in 24	hrs	<u>a</u> a	0	Hours R	otatin	3_13	3	Ra	te_ Q _m	rin/f	t. av	<u> </u>
Dril	ling V	Vt	20		R.P.M.	9	0	P	ump F	ress	900)		
	W+.	/S.G.	Vis.Se	c W.L	:C.C. Co	ke p ^H	Sar	nd			Other		- · · · · · · · · · · · · · · · · · · ·	
MUD	Г			1	12 2	1	l l							
	.t	1.6				02								
F	No.	Size	Make	Type	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Conditi	on
BITS	10	83/4	HTC	0S 0S	68235	5074	5294	೩೩ 0	13	20	90	900	TI-B1-I	
	11	83/4	HTC	05	69115	5294		_					Run	
SURV	ΈΥ			<u> </u>	<u> </u>				L		<u> </u>			البد
		(3	al.	Ω Δ	A 0.0	/ ~	n	C	(17)	10 0.	1 1.		ا	
	Δ Δ		1.7.		soc.	1 D	1= 0		<i>1) 20</i> 00	$\omega \omega$	2 70	3	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	<u></u>	aux				<u>uu</u>	XONL	<u> </u>						
Cono	• No *		Tnton				T-0+ (Y +		Doo		Cama D	-i o m	
		-					_ree. (u <u>. </u>		_ nec.		core D	Tam.	
	Descri	ption	•••••											-;
														 .
													- 1. A	-
	No <u> </u>												FSI	
IHP			SIP		FF.									•
BHT_		Ch	okes:Bl	H	Surfac	e :	F	lec						
Rema	rks			1.4.0				·····	·					
														<u>``</u> `
····														
														 ».
														-

COMPANY Woodside		
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c .	WELL h. Seaspray ho. 2 Report No. 22 Date 23 Feb- 65													
WELL_	h	Doar	pha	a h	<u>o.2</u>	R	eport	No	22		Da	_{tte} _ਕਤ	-للعا- م	65
												⋖ 5		<u>t </u>
Hole	made	in 22	4 hrs	64	· · · · · · · · · · · · · · · · · · ·	Н	ours R	otatir	1g_ 8	74	Ra	te <i>av</i> .	4 mi	in/fil
												1000		· '
	T _u I+	/s c	Vis.Se	o W.T.	*C.C.	Coke	H _q e	Sa	nd			Other		
MUD		-0	5 3				2 8.		Tra	•		0 01161		
	.₺	1.8	93	5	Ψ.	/3	2 01	9 -						
	No.	Size	Make	Туре	Seria	1	From	То	Feet	Hrs	. Wt.	R.P.M	Pump	Condition
BITS	11	83/4	НТС	စ္ခန	6011		5204	53.00	I ₀ H	84	15	100	1000	
				CS	W 11.	•	<u> </u>	4040	-			 		
														
		<u> </u>	<u> </u>	1	<u> </u>				<u> </u>	<u> </u>				
SURVE		<u>ی د</u>	290	/	<u>ي</u>								,	
Litho	logy_	h.	o Ch	ang	: ('	orls	w/	mi	W	asi	ocia	ŧ.g	Coars	٠
	<u>_</u>	2DC	san		يتمحو	مــ								
M														
Core:	No 🌊	·	Inter	val				Feet	Cut		_ Rec.		Core D	iam
D	escri	ption		-										.;
	1.													
DST N		T	ntonue	1				тот			TH (1)	· 7		POT
IHP	DST NoIntervalISIFI,OWFSI													
-	BHT Chokes: BH Surface: Rec.													
Remar	Remarks Chemicals added in last 24 hours: NIL.													
RPM run away and rig jot at 8Pm last night indicated (to														
driller) tural off; erroles let indicator prevented proving this despite														
ven	very rough continued rotation; WI worked on by TP will felt there													
uas	M	tur	ist of	,	Čirc	براي	to 1	2 h	Δ. A	tai	to D &	t J	ع ، ت	LOSD
dotas	totaming of turned off at about 3200'(2) AND													
		<u> </u>	letermine I turst off at about 3200 (2 AM).											

/	/ A < 1	
COMPANY	codside	

WET.T.	h X))		4		Par					D	+- AU	7.1	45	
Depth	n at 8	"00 a	· m· -	85	358	One	ort i ratio	no nn at	8.00	a.m.	(Fin	hin) P	ulling	od onerol	Lat
										·					····
MUD	Wt/S	S.G.		C M °T	&C.C.	Coke	p ⁿ	Sa	nd			Other			
			50			***************************************						4			_
	No. S	Size	Make	Type	Serial	. F:	rom	To	Feet	Hrs	Wt.	R.P.M.	Pump	Conditio	n.
BITS							Ĭ								
T															
 															1
SURVE	-	<u></u>					1			L					ᆈ
	logy		-												_
				, , , , , , , , , , , , , , , , , , , ,		1							· · · · · · · · · · · · · · · · · · ·		~>
****		•													-
Core.	No -		Tnter	779 J				F+	C22+		Poo		Cama D	iam	
										•			core D	1am.	-
<u> </u>	escrip	otion.									· · · · · · · · · · · · · · · · · · ·				1
						-			·	······	<u></u>				
DOW M		 т,	.+	7	-			TOT			ET O	T T		70. T	i
IHP	O <u></u>		siterva SIP	IFP		FFP		FSI _			FLC	W		FSI	
BHT			okes:B		Surf			•	 Rec.	r			<u> </u>		•
	D D	One									3187	101)	10 +	-
Remar	γs <u> </u>	.an	,	ىمى	hal			7	l'		<u>3187</u> N), lun	t un	able l	<u>}_</u>
Ta	<u> ملاه</u> ا ا	Kol	,	<u>ran</u>	s on		i				ushor 1 · 1	لھ سف	bring	w/Ro	س پي سار
100	0	sho	e , x	<u> </u>	Λ	lile-		000			feat	~; A	an -	oversh	<i>ا</i> ھ
w/	<u>Der</u>	wca	$\sim m$	lling			an,	<u>l</u>	,	•	at	303	o' c	exculat	لاه
chou	m To	o To	PS	fe.	sh,	ano	(3	one	u to	Po) fe	sho			markyn.
711 1	11 .	- 1		n		N 1500)#		٦,	50#	Colla Colla	جمل ،	1 1		***
24 1	tow	Ch	emi	eals	: go	<u> 13</u>) <u>L</u>	lone	al'	7	alla	pa 12	Nox (22#)	-

				MPANY	00 550			•••••		•••••		
	R				AILY DR							A
VELL/	, De	asp.	nay	/ha. a	Repo	rt No	24)		Date.	254	als 65
VELL 1	0 a.m	53.	58			Opera	ition a	t 8.00	$_{ ext{a.m.}}\mathcal{J}$	ishing	لسمرر	lling too
Iole made ir	24 hrs	•	٥		Но	urs Rota	ting			F	Rate	- 0
rilling Wt				R.F	.м.				Pump P	ress		
	Wt/S.G.	Vis. Se	ec.	W.L.:C.C.	Coke	pН	Sand			Oth	er	
UD												
No.	Size	Make	Туре	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
ITS					5294	5358)		,			
							<u> </u>					
JRVEY						••••••						
ithology		•••••	•••••						······			
	••••••						••••••	••••••				
		•••••••			••••••	•••••••••••••						
re: No		Inte	rval			Feet	Cut		Rec		. Core D	iam
escription								•••••				
			•••••									
						•••••						
ST No		Interval	•••••			ISI			FLOW		FSI	
[P	ISII			IFP	FI	FP		FS	SIP		FHP	
it.	Ch	okes: B	H	S	urface		Rec.					

to grapple fish pulled out and raw impression block which showed fish to have large spike on upper end; pulled out and raw american overshot with wall hook, pulling same at PAM after failing to connect with fish.

DAILY	DRILLING	REPORT

WEL	Ch.	Sec	ups	کریت	70.2	Repor	t No	24	= 2	5	Date.,	26=	7eb-65	·
Depth	at 8.0	00 a.m	53 8	8°C)			Opera	tion a	t 8.00	a.m.C	eaning	upch	mud Le-	
Hole	made i	n 24 hrs	<i>C</i>)		Ног	ırs Rota	ting	0		F	Rate		
Drillin	ng Wt.				R.P.N	л				Pump F	Press			
		Wt/S.G.	Vis. S	ec.	W.L.:C.C.	Coke j	ρΗ	Sand			Oth	er		_
MUD			50											
[-	No.	Size	Make	Туре	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition	
BITS	IIRR	83/4	HTC	08	69115	2368	ड अन		8/4	-	-	_	Run	
-	11	1	Нтс	I	69115	5294 5358	2328	64	844	15	100	1000	1-1-I	_
												Core I	Diam.	
DST 1	No		Interva	l			ISI]	FLOW		FSI		
IHP		ISI	P		IFP	FF	P		FS	SIP		FHP		
	ks ich rich rus	Ra Ling d to	nokes: I	one of	rshot, fish hole Pan to bot	bae	mi	ll 4	gii 30 Li	de PM Le tric 018)	pur	le and	t (no 1 hole	urr),

DAILY	DRILLING	REPORT
		MEI ON I

WEL	Lh	, Sea	epi a	<u> </u>	ho, 2	Re	port No.	2	6		Date	27F	Ele-65 Circulating
Dept	h at 8.0	00 a.m		ر ٥	1328		Оре	ration a	t 8.00	a.m.Wo.	Sëhlumbe	raer, (Circulating
Drilli	ing Wt.		150	000	R.F	P.M	9	10		Pump P	ress	700	
	[-	Wt/S.G.	Vis. S	ec.	W.L.:C.C.	Coke	pН	Sand			Oth	er	
MUE)	9,2	52	,	5.2	2/32	9.5						
-	No.	Size	Make	Туре	Serial	Fro	m To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
BITS	IIRR	83/4	HTC	c3	69115	520	94 535	8 64	914	15	90	900	Run.
-									 - 				
Litho	logy		Inte	rval			Fee	t Cut		Rec.			Diam.
DST	No	1	Interval	L			ISI.			FLOW		FSI	
IHP		ISI			IFP		FFP	······································	F	SIP		FHP	
Dema	rke	Clo a	100-		hole preat drill lit le. al 132	ta	V-tt	erron l	(53	SS) larg 45 f parei 2 , a home	with	Rit La Lue de Lue de Lo Lue de Lue de Lo Lue de Lo Lue de Lo Lue de Lo Le Lue de Lo Le Lo Le Lo Le Lo Lo Lo Lo Lo Lo Lo Lo Lo Lo Lo Lo Lo	IIRR, hunks; lut to urisol stec 420 lla

DAILY	DRILLING	REPORT
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DELL'h. Slaagray ho 2 Report No. 27 Date 28 Feb los Depth at 8.00 a.m. 55359 Operation at 8.00 a.m. Circulating Depth at 8.00 a.m. 55359 Operation at 8.00 a.m. Circulating Depth at 8.00 a.m. Circulating Rate — Pump Press WING. Vis. Sec. W.L.:C.C. Coke pH Sand Other WID 9,3 68 5,2 2/32 9.5 — No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS ///R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS ////R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS //// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS //// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS //// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS //// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS //// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS /// R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS // R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS // R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS // R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. Pump Condition HTS // R No. Size Make Type Serial From To Feet Hrz. Wt. R.P.M. R Pump Press Pump Press No. Size Make Type Seria	WELI	Sh.	Lea	spr	an)	ho a	L Rep	ort No	27	7		Date	28 F	el-65
The pump Press	Depth	at 8.	00 a.m		۵	4333		Oper	ation a	t 8.00	a.m. Ce	roula	ling	
Wi/S.G. Vis. Sec. W.L.:C.C. Coke pH Sand Other 9.3 68 5.2 2/32 9.5 No. Size Make Type Serial From To Feet Hrs. Wi. R.P.M. Pump Condition HTS ///RR													-	
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition HTS ///RR Rec. Core Diam. DIRVEY — Interval ISI FLOW FSI HT Chokes: BH Surface Rec. DIRVER Surface Rec. DIRVER FIP FFP FSIP FHP DIRVER FHP FFP FSIP FHP DIRVER FIP FFP FIP FFP DIRVER FIP FFP FIP FIP DIRVER FIP FIP FFP FIP DIRVER FIP FIP FIP FIP FIP DIRVER FIP FFP FIP FIP DIRVER FIP FFP FIP FIP FIP DIRVER FIP FIP FIP FIP FIP FIP FIP DIRVER	Orillin	ng Wt.				R.	P.M				Pump I	Press		
No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition HTS ///RR No. Size Make Type Serial From To Feet Hrs. Wt. R.P.M. Pump Condition HTS ////RR DIRVEY DIRVE		Ī	Wt/S.G.	Vis. S	ec.	W.L.:C.C.	Coke	рН	Sand			Oth	er	
URVEY ithology Dre: No. — Interval Feet Cut Rec. Core Diam. ST No. — Interval ISI FLOW FSI IP ISIP IFP FFP FSIP FHP HT Chokes: BH Surface Rec. emarks Circ. at 53587D until \$30 Am Set; Alasted F S and down unable to lower beyond 3047; Named 70' to britant at 3047), Named 70' to britant, cucultied, pulled ont by 10:30 PM; Nam E. S. Ownle again and encountered sam difficult (sorde rec.	4UD		9.3	68	,	5,2	2/32	9.5		_				
DRVEY pre: No		No.	Size	Make	Туре	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
ore: No. — Interval Feet Cut Rec. Core Diam. ST No. — Interval ISI FLOW FSI IP ISIP IFP FFP FSIP FHP HT Chokes: BH Surface Rec. comarks Circ at 53587D until \$30 AM Set; Alasted FS and & down unable to lower beyond 3047; ran pipe back to bottom (no bird at 3047), reamed 70 to bottom, curalized, pulled out by 10:30 PM; can F. S. Rande again and encountered sam difficult (sorder	ETTS	[IRR												
ore: No. — Interval Feet Cut Rec. Core Diam. ST No. — Interval ISI FLOW FSI IP ISIP IFP FFP FSIP FHP HT Chokes: BH Surface Rec. comarks Circ at 53587D until \$30 AM Set; Alasted FS and & down unable to lower beyond 3047; ran pipe back to bottom (no bird at 3047), reamed 70 to bottom, curalized, pulled out by 10:30 PM; can F. S. Rande again and encountered sam difficult (sorder					·									
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ISI FLOW FSI IP ISIP IFP FFP FSIP FHP HT Chokes: BH Surface Rec marks Cvic at 53587D until \$30 Am Set; Started F S sombe down mobile to lower beyond 3047; nan pipe back to bottom (no birdget 3047), reamed 70' to bottom, curalised, pulled out by 10:30 PM; ran E.S. Dande again and encountered same difficult (sombere														
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marks Circ at 53587D until 830AM Set; Started E5 sande down mable to lower beyond 3047; nan pipe back to bottom (no bridget 3047), reamed 70' to bottom, cerculated, pulled out by 10:30 PM; ran E.S. Donde again and encountered same difficulty (soule ru	P		ISI	P		IFP	F	FP		FS	5IP		FHP	
mable to lower beyond 3047; nan pipe back to bottom (no bridgest 3047), reamed 70 to bottom, curculated, pulled out by 10:30 PM; ran E.S. Donde again and encountered same difficulty (soule ru			•											
at 3047), reamed 70° to bottom, cerculated, pulled out by 10:30 PM; ran E.S. sonde again and encountered same difficulty (sonde ru														
ran E.S. Donde again and encountered same difficulty (soule ru	m t	alılı 30°	to 1 17),	reame) L L 7:	izend o'to b	304	7 j s would	an	pipe , pu	led lled	b to lo	thom 10	(no bridg :30 PM;
pe back in hole, built mud vis up to 65+, naw Totes to determ	rai	ν Ε	.s. p	onde	agi	in a	I en	ounte	ead	Aa	me d	Him	£, (,	souleru
17 ting of 2800' 2050': 24hr Chemo: Sel 34 Caustic, 140	nt 00	h d	b in	hal.	l	wilt m	uspoul	ledle	gging.	65	temple + s	and T	ites	to detorm
	144 	tin	2 A	2800	· 2	750 13	24 hu Che	mo:	ة أعا	24	Can	itic.	140	

DAILY DRILLING REPORT

vell N,	SEAS	SPRA	y No.2	Rep	ort No	28			Date	Mar	ch 65
epth at 8	.00 a.m	<i>\$</i> 35	8		Oper	ation a	t 8.00 a	a.mCv	ic thru	openi	DP at 5008
ole made	in 24 hrs		9	Н	ours Rot	ating	0		R	late	
illing W	-	-		R.P.M				Pump P	ress	-	
	Wt/S.G.	Vis. Se	c. W.L.:C.C.	Coke	pН	Sand			Oth	er	
UD	9.3	68	5.2	3/32	9.5			•			
No.	Size	Make	Type Seri	al From	то То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
TS —											
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DXZZXZ	300	01	2800'	20	_/	A	1.	n+	1	<u> </u>	
			E.S. Loz E.S. Loz E. Strey V. Seasp							. Core D	Am
Г No		Interval			ISI			FLOW		FSI.	
·	ISI	P	IFP	F	FFP		FS	IP		FHP	
marks	Pan (Totco	tool a	t 3050	0' au	d 2	800'	, boi	th sh	lowing	, 2°
ola, an shi	sain Swc tin	uhi Lop	ed was e of recombled or	block sh al orling t	ed a so f	t 3 aile eto	05. D &	o'; / o pa le; A	made os 30 Juled	μρ 50'; (ree	fired onesed or and dro

	•	0			D	AILY DE	RILLING	REP	ORT				
WEL	LM	, Dec	upr	ay) cho.	A Rep	ort No	Q	}		Date	2ma	erch 65
Dept	h at 8.	00 a.m	533	28 Q			Oper	ation a	t 8.00 a	a.m Cle	ming ho	le w/ N	erch 65 mill tool.
Hole	made	in 24 hrs	0	•••••		H	ours Rot	ating	0		R	late	•
	Ī	Wt/S.G.	Vis. Se	ec.	W.L.:C.C.	Coke	рH	Sand			Oth	er	,
MUD		9.3	इऽ		5.2	2/32	7						
-	No.	Size	Make	Туре	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
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-				,									
												٠	
Litho Gore:	No		Inte	rval			Feet	Cut		Rec		Core D	piam
DST	No		Interval				ISI]	FLOW		FSI	
IHP		ISI	P		IFP	F	FP		FS	SIP		FHP	
Rema Rema to f Pul the	rks deledens	ont bewh	170 ~ 170 ~ 170 ~	le Le 48 up	up / 25; at Kin fot l	Surface ADP A Strait MESO STORY SURVEY MESO SURVEY MESO M	tring lle-p un al (bot) mi	Rec.	botto so m and to	m of DST Leph Clea 380	hole tool tool to	(5358 to 7 lote 2000 t h	circulated best the ton due packer). ole at bottom.

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epth at 8	.00 a.m	535	58° 0			Ope	ration a	t 8.00 a	a.m.Cles	ning hol	le w/m	nill tool
		_	•••••		F	Hours Rot	ating	0		د) R	ate	
										·····		
[UD	Wt/S.G.	Vis. So		W.L.:C.C.	Coke	PH	Sand			Othe	er	
	9.3	22		S.a	2/32	7						
No.	Size	Make	Туре	Serial	Fron	n To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
ITS	•											
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ore: No		Inte	rval			Fee	t Cut		Rec		Core D	iam
		Interval	 L			ISI			FLOW		FSI.	
T No												
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[P	ISI	landaran D) T T		Cumfo oo		Das					
[P	ISI	landaran D) T T		Cumfo oo		Das					
HP	ISI	landaran D) T T		Cumfo oo		Das					
IP	ISI	landaran D) T T		Cumfo oo		Das					
IP	ISI	landaran D) T T		Cumfo oo		Das					
IP	ISI	landaran D) T T		Cumfo oo		Das					e), circul kst the tim du pacher ole at lottom

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Drilli	ng Wt		•		R.P	.м				Pump I	Press		
	ĺ	Wt/S.G.	Vis. S	ec. Y	w.L.:C.C.	Coke	рH	Sand			Oth	er	
MUD		9.6	88		5.2	2/32	9						
_	No.	Size	Make	Туре	Serial	From	То	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
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CLIDX	71C3V *		l			,			11		<u> </u>	J	·
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Sore:	No												iam
	_												
DST I	No		Interval				ISI			FLOW		FSI.	
IHP		ISI	P		IFP	F	FP		FS	SIP		FHP	
					S							и .	
Remai	ks	Ream	ed	and	cle	aned	to,	lot	Øm.	$\omega/1$	Kins	bach	· sill
to	£	pul	led	ont	wit	Ldu	Hi	inet	1)	rau	_ bii	ta	ud
C	ince	elat	ا	No	w p	ullen	, O	t	and	l c	ercul	atri	- l-
<u>0</u>	tag	es,	hole	၉	undil	ion	app	20 au	iz	per	· .	Well) (
a	len	pt 1		un	m	icho-e	alip	e	olei	tri	. م	بسوي	Hoday
			<i>y</i>										
хЧ,	Mon	wel	reme	cal	على ، ر	<u> 125</u>	Olls	برص	eslec	. 140	T, C	MC	66#

wellh.	Soa	a DA a	. <i>)</i>	.D ב. ה א	AILY D	PRILLING	REPO	ORT	al)	Diata	Um.	21 h 165
Depth at 8	.00 a.m.	535	ps d		4		ration a	t 8.00	a m A l	sand in	in. U	arch 65 well
Hole made	in 24 hrs	S	-]	Hours Ro	tating			R	late	
	Wt/S.G.	Vis. S		W.L.:C.C.	Coke	pН	Sand		37	Oth		
MUD											- ,,,	
No.	Size	Make	Туре	Serial	Fro	m To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
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SURVEY												
Lithology					,							
Core: No		Inte	rval			Feet	Cut		Rec		Core I	Diam
Description												
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BHT				IFP S				FS	31P		. FHP	
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Call.	wit	X 1/2	لانفدا	lælen	ت حہ	3080	". Que	ار ولالا	in	t Am	10	mado
of qu	TT	orl	for	test	01 4	770-	485:	2 1	teus	0 . li	it o	earld not
get l	owen	nost	1 pe	est of	pt	rin	lel	un	- alr	nt 3.	200	pullal
out, r	an.	lit	to	cont	tion	mu	و ل	Pla	ced (emut	- pli	ys as
follows	: 3100	, -,32,	25 "	u/35/	رعمه	2060	-216	60 4	4 38	Day	,750	earld not; pulled you as -850 w/45, say NIL
non pr	eparing	to d	ay.	donu	DC	A and	Pip	e	24Hn.	chemo i		NIL.

WEL	Ľħ.	Soa	ορλα	-t	10 2	AILY D	RILLING	G REPO	ORT	al)	Date	4/ mc	arch 65
Dept	h at 8.0	00 a.m.	5358	S			Ope	ration a	t 8.00	a.m. Cl	tanduni	ing U	ell
												€.)	
Drilli	ng Wt.	•••••			R.P	.M				Pump F	ress		
		Wt/S.G.	Vis. S	ec.	W.L.:C.C.	Coke	pН	Sand			Oth	er	
MUD													
	No.	Sizo	Make	Trmo	Coriol	Ever	- To	T4	TT	****	D D 14	D	
RITS	No.	Size	Make	Туре	Serial	Froi	m To	Feet	Hrs.	Wt.	R.P.M.	Pump	Condition
P113	IIRR			<u> </u> 									T1-B1-I
-				1				<u> </u>					
SURV	/EY	-sp-pstds											
Litho	logy	-											
ore:	No		Inte	erval			Fee	t Cut		Rec		. Core I	Diam
Descr	iption												
<i>:</i>													
DST	No		Interval	I			ISI.			FLOW		FSI	
IHP		ISI	P		IFP		FFP		F	SIP		FHP	
					S		A 41 -						<i>N</i>
Rema	rks	att	emp	to J	ton	un)	Schli	embe	1-4-2×	J M	cone-C	aly	eer leg,
CM	II.	not	l.	res	lela	ب سمہر	3080	; su	lled	on	1 Am	de.	malo
up	05	Γ 7,	oul	for	leal	4	770-	4850	2 ru	Jena	I, li	it c	fuld ant
gat	+ L	men	nort	P.	p. Ku	isl	rug	lel	m	ab	r.A.3	200	earld not pulled
ort	t	der)	Lit	-6	cond	itim	mi	sorp.	Êld	eed.	Classins	tph	Lytas
foll	lons	: 310	0-32	25	w/35	saf	206	0-21	604	u/ 3	5 Dage	750	-850 W/45 sa
m	w pu	epan	g to	lay	Sen	. <u>D</u> C		(P)	L. L	24Hn	chemo:	量	-850 W/45 Ra NIL

Company Wood

WEEKLY FIELD REPORT

. <i>D</i>	GEOLOGICAL	SUMMARY	. = 4	
Well Name & No. A. Aca	spray ho. 2 Wee	ek Ended Sat. Midni	ight le February,	196
Well Name & No. 11. Sec Location PPL 160	Victoria: 38º18	17"5., 147°	12'20"E.	· · · · · · · · · · · · · · · · · · ·
Elevation	K.B. NOT KNOW	N Ground Not	KNOWN	
Depth Saturday Midnight _	880	Footage for	week: 880	
,	GEOLOGICAL	MARKERS		
Formation or Horizon	Sample: Depth	s Subsea De	E - Log epth Subsea	
QUAT. SUR	=	bubbea be	- Sport Subsea	
L.W./H.R. GRAVELS		·		
JEMMY'S PT. FM				
TAMBO FM GIPPSHAND LS.				
GIPPSHAND LS.	640 (?)	Noute		
		NONE		
Type	Size		Description (brief	. \
Core No. Formation	interval	necovery	Description (brief	.)
	/			
		M TESTS NONE	ಸ್ 1	
DST. No. Formation	Interval	Recovery		

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rally: Last taken at	ft. Driller De	epth I	Cally Depth	
	Wel	Llsite Geologist: \sum	James C. Len sen	···
	WCJ		,	

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Form 1

Company WOODSIDE

Report No. _2

WEEKLY FIELD REPORT

GEOLOGICAL SUMMARY

Well Name & No. N. SEASPR	Ay No. 2 Wee	k Ended Sat. M	idnight 13	FEB	196 [§]
Location PPL 160 Vic					·
Elevation K.B.	· · · · · · · · · · · · · · · · · · ·	Ground			
Depth Saturday Midnight3				3070	
	GEOLOGICAL 1	ARKERS			
Formation or Horizon	Samples		E-L	og	
hatrobe Coal measures	Depth 2060	Subsea	Depth	Subsea	
		,			
-					
	CORING				
14. 14: 10		. 1 5	, 9.	4 0	
Type Mo. I diamond , No					
Core No. Formation	Interval	Recovery	Descri	.ption (brief)	•
1 hatrole CM	3930-41	4"	Silic od	, Conglone	ato
Q (for next week's	report)			J	
	•				
	DRILL STEM	tests $N\sigma$	ne,		
DST. No. Formation	Interval	Recovery			
					
TALLY: Last taken atf	t. Driller Den	th	Tally Danth		
			Learly Depoil	$\overline{\mathcal{O}}$	
	Wells	site Geologist	· James C.	Leures	, .

WEEKLY FIELD REPORT

GEOLOGICAL SUMMARY	
Well Name & No. N. Seaspray ho. 2 Week Ended Sat. Midnight 20 Feb., 1965	196.
Location PPL 160, Victoria	
Elevation K.B Ground	
Depth Saturday Midnight 5074' Footage for week: 1174'	
GEOLOGICAL MARKERS	
Formation or Horizon Samples E-Log Depth Subsea Depth Subsea	
ho raliable markers purce top of L.V. Coal measures at 2060	7
•	
Type Convention Size 8 4" HTC I Blade bit Core No. Formation Interval Recovery Description (brief) 2 Latrone Valley CM 3950-59 3' Cosley congl. at base ? pre-Tertiary? H340-52 12' Tree putty, carlonae, of	v
DRILL STEM TESTS Word DST. No. Formation Interval Recovery	
TALLY: Last taken atft. Driller Depth Tally Depth	

	Compa	any Woodside		I	Report No. 🖊
	Общра	WEEKLY FIELD	REPORT		
	- 4 la			20	7.0-1
Well Name &	No. W. Dearb	Nay 10. Week	Ended Sat.	Midnight 🕰 🖊	February, 196
Location	PL 160,	Dippolan.	1, Victo	ria,	
Elevation	К . Е	. 88'(Ext)	Ground	77' (E	et).
		5358			
Depun Saturda	ay Midnight			e ior week:	20 /
Formation or	Uorizon	GEOLOGICAL M	ARKERS	T.	Т
rormation or	HOLIZOH	Samples Depth	Subsea		-Log Subsea
hakes Ent	trance Im.	_	*	-	-1783 (?)
Late 10 K	Il. CAA	· ·			-2043
HOWIOU VE	<u> </u>			alao	- 2073
<u> </u>					
		CORING	none		
_			_		
		Size			
Core No.	Formation	Interval	Recovery	Desc	eription (brief)
			24 Martin Company		,
**					
	***************************************	***************************************			
		DRILL STEM	TESTS Mo	ne.	
DST. No.	Formation	Interval	Recovery		
	MANAGEM AND CONTRACTOR OF THE				· · · · · · · · · · · · · · · · · · ·
					1
					
71 A T T ** -					
rally: Last	taken at	ft. Driller Dep	th	— Tally Dept	ih
		•• • •	• • • • • •		Otomore
		MeTT	site Geologis	st: yeurs	L'ajmyman.

Company Woodside

Report No. 5

WEEKLY FIELD REPORT

	G. (GEOLOG1				10	1 . 1 .	
<u>Well Name & </u>	DPL160	<u>مهمم</u> کالا	ho.d	_ <u>Week</u> ∩	Ended Sat.	Midnight .	6 Mar	eh 63	196
	•		•	-					
Elevation		_ К.В	88' (25	<u>t.) </u>	Ground _	177' (e	a † :)		
Depth Saturd	lay Midnight.				Footag	e for wee	k:		
			GEOLOGI	CAL MA	RKERS				
Formation or	r Horizon	Г	Sam Depth	ples	Subsea	Denth	E-Log	Subsea	
Tert/Me	eozòc	-				4000		3923 -	-3912
							····		
	· · · · ·	-							
•			CO	RING (none				
Type)			Size _					
	Formation				Recovery		Description	on (brief))
								· · · · · · · · · · · · · · · · · · ·	
			DR TI.I.	STEM T	ESTS %	~ «			
OST. No.	Formation		Interval		Recovery				
	N	The state of the s							
				5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5					
CALLY: Last	taken at	ft	. Drille:	r Dept	h	Tally	Depth		
				Wells	ite Geologi:	sti. Ju	us O to) w <i>uu</i> a	w,

Company Woodside

Report No.___

	WEEKLY BIT RECORD												
Well Na	WEEKLY BIT RECORD Week ended Saturday midnight: 63.6, 196.5												
	,				5		WCCR		durday ii	ranran e.	69.	10,	196_3
Date	Bit No.	Size		i	Serial No.		pth	Feet	тт	Wt. 1000 lbs.		D11mm	,
Eas	NO a					From	То		Hours	lbs.	R.P.M.	Press	Remarks
FEB2		1274	Keed	$+\mathcal{T}$	34225		880	880	16/2	5	120	565PM	1.1-0 Green.
7FEB	2	874	HTC	OSC 3	68249	886							RUN
				<u> </u>									
								-					
†				<u> </u>									
 													
#													
									VAMIA (************************************				
								The Horacon Approximation					
													
k		#											

Company WOODSIDE

Report No. 2

WEEKLY BIT RECORD

Well Name: N. DEASPRAY No. 2 Week ended Saturday midnight: 13 FEB 1965

1965

Î	Date	Bit No.	Size	Make	Type	Serial No.		pth	Feet	Hours	Wt. 1000 lbs.	R.P.M.	Pump Press	Remarks
ł	TFEB	a	874	НТС	05C 3	68249	From 880	То			TDS.		rress	
Ī	8FEB							2124	1244	2114	15-20	120	500	T1-84-0
	8FEB	3	83/4	HTC	osc 3	69491	2124							
	9 FEB		- 3/			- 1, W.		3217	1093	17/2	15-24	120	700	T3-82-18
- [IO FEB	4	8-1/4	HTC	ose 3	68933	3217		0					
ļ	NFEB		~~					3762	545	15/2	10	130	700	T3-82-18
	12 FE 3	5	83/4	HTC	0503	6949	3762	3930	168	5次章率	10	120	750	T2-B1-0
1	13FER	蓮	6 1/8	C	DIA.	CD 72	3930	3948	18	3 /2	8	60-80	600	DESTROYED
	12Fel	6	82/4	HTC	0803	69116	3943	3950	2	MINUTES	10	120		T1.B1-0
	14FEC	CEA	83/4	HTC	CLADE	To Macrose:	3950	3957	Ţ~		6.5	40	600	FUR NEXT
.														
ļ														
-														
+	-			,						Loury a Mysic Control Control		1,000		"
-									Section of the sectio					
-														1
-														
*	-													
į	Fa			,										

Company Woodside

Report No. 3

WEEKLY BIT RECORD

ame: <u>C</u>	<u>n.</u>	& ea	spra	yons.	<u> </u>	Week e	ended Sa	turday m	idnight:	20 J.	ob	196 5
Bit No.	Size	Make	Type	Serial No.			Feet	Hours	Wt. 1000	R.P.M.	Pump	Remarks
00 7	83/	Line	J				~					
1			OSC 3	/		3957	7		6.5	40	600	BLADES WORK ABOUT SOT.
S	3 727	1110		69116	3987	HIO2	k ma	- 34.		-		
7	834	KTC	0502	1-9500	4130		 			 		72-82-I
CB3						 	1					TI-CT-T
ક	83/4	HTC					1					OK
9	83/4					1						TJ-RD-I
										'	100	T2-82-I
	7	,										
	Bit No. CB2 6	Bit No. Size (82 83/4 (83/4) 7 83/4 (83 83/4) 8 83/4	Bit No. Size Make CB2 83/4 HTC 6 83/4 HTC 7 83/4 HTC CB3 83/4 HTC 8 83/4 HTC	Bit No. Size Make Type CB2 834 HTC BLADE 6 83/4 HTC OSC2 CB3 83/4 HTC OSC2 CB3 83/4 HTC OSC2	Bit No. Size Make Type Serial No. CB2 83/4 HTC BiADE — 6 83/4 HTC DSC2 69500 CB3 83/4 HTC DSC2 69500 CB3 83/4 HTC DSC2 69510 8 83/4 HTC DSC2 68231	Bit No. Size Make Type Serial No. De From CB2 834 HTC BLADE — 3950 6 834 HTC DSC3 69116 3957 7 834 HTC OSC2 69500 4128 CB3 834 HTC DBLADE 9510 41240 8 8344 HTC OSC2 68231 4352	Bit No. Size Make Type Serial No. Depth From To CB2 834 HTC BLADE — 3950 3957 6 834 HTC SSC3 69116 3957 7 834 HTC OSC2 69500 4128 4340 CB3 834 HTC JBLADE 9510 4240 4352 8 834 HTC OSC3 68231 4352 H749	Bit No. Size Make Type Serial No. Depth Feet (B2 83/4 HTC Birds — 3950 3950 7 (B3/4 HTC DSC3 69116 3957 4128 171 (B3/4 HTC DSC2 69500 4128 4340 212 (B3 83/4 HTC DSC2 68231 4252 4749 397	Bit No. Size Make Type Serial No. Depth Feet Hours CB2 834 HTC Binds — 3950 3950 7 1 6 83/4 HTC SSC3 69116 3957 7 83/4 HTC 05C2 69500 4128 4340 212 83/4 CB3 83/4 HTC DSC2 69500 4128 4340 212 83/4 CB3 83/4 HTC DSC3 68231 4352 4749 397	Bit No. Size Make Type Serial No. Depth Feet Hours 1000 lbs. CB2 834 HTC Biade — 3950 3957 7 1 6.5 6 834 HTC DSC3 69116 3957	Bit No. Size Make Type Serial No. Depth Feet Hours 1000 R.P.M. CB2 834 HTC BLADE — 3950 3957 7 1 6.5 40 6 834 HTC SC3 6916 3957 7 834 HTC OSC2 69500 4128 4340 212 8344 5 90 CB3 834 HTC JBLADE 9510 4240 4352 12 3 6 40 8 834 HTC OSC3 68231 4352 H749 397	No. Size Make Type Serial No. Depth Feet Hours 1000 R.P.M. Pump Press CB2 834 HTC BLADE — 3950 3950 7 1 6.5 40 600 6 834 HTC SC2 69500 4128 4340 212 8344 5 90 850 CB3 834 HTC SC2 69500 4128 4340 212 8344 5 90 850 CB3 834 HTC SC2 68231 4352 12 3 6 46 600 8 834 HTC OSC2 68231 4352 H749 397 16 10-15 90 900

Company	_Woodsida
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WEEKLY BIT RECORD

Well Name: M. Leaspray ho. 2 Week ended Saturday midnight: 27 Jebruary 196 5													
Date	Bit No.	Size	Make	Туре	Serial No.	De:	pth To	Feet	Hours	Wt. 1000 lbs.	R.P.M.	Pump Press	Remarks
DIFER	10	83/4	HTC	osc3	68235	5074	5294	220	13	20	90	900	71-B1-I
aa Feb	ruder artiger	83/4	НТС	Ď	69115	5294	5358	64	814	15	100	1000	TI-BI-I
26FEC	URR	83/4	HTC	O\$c 3	69115	5328	5358	64	91/4	17	90	900	T1-131-I
													
-									The LANGE AND CONTROL OF THE LANGE AND CONTROL				
								III-л Куулгондад					
			, .										
P715													
									-		·		

Company Woodsida
Company

Well Name:	N. Seas	pray 7	м. <i>а</i>	IUD AN	D ADD	ITIVES	S REPO	RT	ni mh t	′ . Ŧ.	.0		- ,		196₁ ≤
Show Addit	ives in poun	ids or gallon	s or bbls.		MCCIT.	Silded	L	ost ci	rculati	on Mat	erial	- Sho	ow Sacl	CS	19013
Date F E8.6 5	(5028 BAGS) # Gel	# Caustie													
Sun.															
Mon.	nerg (speriment)	-co-entry-telescopes													
Tue. 2	2000	wyspiration desire									:				
Wed. 3	44100	50													
Thur. 4	500	and the second second													
Fri. 5	**************************************														
Sat. 6	*kandenorelamenan*	and the state of t													
TOTAL FOR PERIOD	6,900	50													
											,				
Balance Forward	0	0							·						

Acc. Total

6,900

50

MUD AND ADDITIVES REPORT

Week ended Saturday midnight 13 Jeb

Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

Date	# GEL	#	- Father	#	BAGS MICA-	11011-	44.4 it.	SUPER-	COL.						
FER		CAUSTIC	BICARB	VIS	Lox	5 74 bo	CON	COL	. 06-						
Sun. 7		***************************************	500	#	THE STREET	THEMES	***************************************	statistics.	THE STATE OF		1				
Mon. 8		*TEXT TERMINATE	ावीतिकार स्टीमार्गः 	350	***************************************	on the control of	- Anna Carlotte	Cartesiana	**************************************						
Tue. 9	6000	NAME OF THE PARTY	THEME	-	36	#With High	***********	and the state of t	Magrapage						
Wed. 10		410	exception.	1000 margar	-	3650	1150	APPROX SOUL				-			
Thur. 11	1800	450	*******	*********	***************************************	1100	700	2400	28			-		 	
Fri. /2	1750	142	Davis,	1) Tradeso	442779	500		-3000//pain							
Sat. 13	. And and the state of the stat	shice and the same of the same	eppentine to one	nier procesing dasse.	entralities:	79277		**************************************	TATION CO.					-	
TOTAL FOR PERIOD	12,500	1002	500	350	36	5250	చి!50	7900	88						
							·				i 		<u> </u>		
Balance Forward	6900	50	0	0	0	Q.	0	0	O						
Acc. Total	19,400	1052	500	350	36	5250	2150	7900	83						

Company WOODSIDE

Report No. 3

AND ADDITIVES REPORT

_ Week ended Saturday midnight 20 February, 1965 196, Show Additives in pounds or gallons or bbls. Lost circulation Material - Show Sacks

		(140#/drum	1	7								OTTOM DE	
Date FE/S Sun. 14	# Gol	Faustic		# Lu- VIS	BAGS MICA LOA	UNI-	MIL		HUR/BOX R CMC CELLU- CELLU-				
	1000	140	**************************************		Q ^a erren _a bengar	ender in the second	- Si-milion	The state of the s	44				
Mon. /1	5600	420	A second second	- Constitution		- Constant	-	The second	133				
Tue. //	1000	560	<u>व्याक्तिकार</u> ्यः		- Anticolina	2250	٠, ز٠.		1,00		-		
Wed. 17	1000	280	and the state of t	3/45/2000	126000000					:		_	
Thur./8	Cartholinguese	140	manageres.	Part of the State	- Dime-y-	1000	 	600	OCCUPANT.			-	
Fri./9	*fore money as	140	underpetations conflicted	- Control (Control of Control of	 	1000	500	-	31202				
Sat. 20	AND THE PROPERTY OF THE PROPER	140	"To provide the same of the sa		W-14/92	900	- Antietra	900	AND THE PERSON NAMED IN COLUMN TO PERSON NAM				
TOTAL FOR PERIOD	11,600	1,820	And the state of t	Convenience grandeline	and the second s	350	1250	350	176				
										<u> </u>			
Balance Forward	19,400	1,052	500 .	350	36 5	250	2150	?	88				
cc. Cotal	31,000	2,872			36 10				264				

ADDITIVES REPORT

_ Week ended Saturday midnight 37 Falswaw Show Additives in pounds or gallons or bbls.

Lost circulation Material - Show Sacks

1	ate FG	# Sel	(140/dum) # ("austic	77 Bicarb	C C *	BAGS MICA- LOX	1 75	MIL.	# SUPER . COL	CELLU- COL (CMC)		4		
Sv	un.Ā;	1000	140	AMERICA COM-	* Departure	resolvables.	1000	1000	*STATION*	minute.				
Мс	on. aa	- Charles Control of the Control of	Marie Salarina de	delininistani	-	appl date to spage,	न्द्रीकान्द्रेसस्यक्ष्यं करः -	***********	- The second of the second of					
Tu	ue.23	1500	***************************************	egenerate proprieta de la primera de la prim			350	- CONTRACTOR -		<i>a</i> a				
We	ed.24	650	र्योद्यक्षकरस्यकरम			4/4-20-00-00-00	- The state of the	and to spin	White and the same of the same	***************************************				
Th	hur 25	- Carring Spiriture	140	-3/10/10/10	ng/Vintermany.		givilianis	American						
Fr	ri. 26	6600	420	chanter of the state of the sta	spanjal mar al Co	emades (film y film parts	350	and the second s	*Contract procession	88				
Sa	at. 27	1000	140	The second	orietes	***************************************	orac Carcago	-emptst-	Western Co.	And the State of t				
F	OTAL FOR ERIOD	11,650	240	Nazarri darin Pir	+कुलाह्यकाराट	Mademotore	1,700	tooo	क्षन्त्रसम्	110				
										•		,	, , , , , , , , , , , , , , , , , , , ,	1
,	alance orward	31,000	2,872	500	350	36	10,750	3,400	10,350	264				
	cc. otal	42,650	3,712	500	250	36	12#5°0	4400	\$0350	374				

Company V) oodsida

Report No. 5

MUD AND ADDITIVES REPORT

Well Name: 1. Deas pray ho. 2	Week ended Saturday midnight 6 manch	196 <u>, 5</u>
Show Additives in pounds or gallons or bbls.	Lost circulation Material - Show Sacks	

T	<u></u>		 												
Date	# Li ₀ 0	Courtic	Flecarb	H Lo- Vis	BAGS MKA- LOX	H H	H MIL - CON	COL	Cecco.						
5un. 28	700	*Spatrostoner*		er Memberg.		**************************************	~creativity day;	ndjogradentligg							
MARCH Mon. I	a the Control State Constraint Control	The same of the sa	NATION AND AND AND AND AND AND AND AND AND AN	tryje-rad/secon-	ANTECON MORNING	17-12-100-		MERCELER MANAGEMENT							
Tue. 2	1250	440		*tonoglass	-Whettage.		***************************************	- Serviteding)	-60ts						
Wed. 3	1250	140	and the second s	موسور وشواها				and the second	66						
Thur. 7	- Angeles of the State of the S	Newson and the second	and his supplemental states	appendies specification (see	elfor-manifeliteration.	***************************************	and the same of th	THE OPPOSITOR	-constitution of Assert	Al	on dir	N 4	well		
Fri. 5										4		d			
Sat. 6			- Andrews - Andr												
TOTAL FOR PERIOD	1950	3712		***************************************	m Taray Angay.		of State Of States	Wight feet and any	Lolo						
													J		**************************************
Balance Forward	412,650	3,712	500	350	36	12450	44100	10350	374						
Acc. Total	HH,600	3,852	500	350	36	12450	H-100	10250	440	(Ju	a) A	iga	(مع	

_196 5

Rig: _

(Rig Up & Teardown Time Not Included)

Well Name: N. Seaspra, ho. 2. Drilling Contractor: Keading & Ratos

Hours worked during week ended Saturday midnight: 6 Jebruary

Date FEB 65 2 3 B/Fwd. Acc. Total Total Tue. Wed. Sun. Mon. Thur. Fri. Sat. 131/2 3 1/0 1/2 16/2 SPUD On Bottom Drilling 41/2 Trips 11/2 On Bottom Coring Trips Drilling Conditioning 13/4 1/4 Other Hole Deviation Surveys Rig Service Breakdown Time 314 3 1/4 Testing Fishing Logging Casing, W.O.Ca, etc. 24 Completion / Abandonment Stand lu 4 3/4 Waiting on Bater pump 434 21 24 Total

TIME ANALYSIS

(Rig Up & Teardown Time Not Included)

Well Name: N. SEASPRAY No.2 Drilling Contractor: READING & BATES

____Rig: ____

Hours worked during week ended Saturday midnight: 13 FEB, 1965

Date FER 65: 12 10 Acc. Total B/Fwd. Sun. Thur. Total Mon. Tue. Wed. Fri. Sat. 22 14 1344 15/2 5 64 16/2 80/2 On Bottom Drilling 16/4 23/4 21/2 5 Trips 1/4 514 5 14 On Bottom Coring 21/4 5 23/4 Trips Drilling Conditioning 53 1/4 13/4 LC 21/4 5/2 412 1/4 Other Hole 1/2 Deviation Surveys # 11/2 51/2 9/2 5 1/4 1/2 Rig Service 23 3/4 Breakdown Time 6/2 3 1/4 Testing Fishing Logging 63/4 Casing, W.O.C., etc. 63 Completion / Abandonment STANDRY WAITING ON WIR PUMP. 133/4 133/4 WORKING STUCK PIPE 24 24 24 Total

TIME ANALYSIS

(Rig Up & Teardown Time Not Included)

Report No. 3

Well Name: N. SEASPRAY No. 2

Drilling Contractor: Roading & Bates

Hours worked during week ended Saturday midnight: 20 FEB 196 5

	Date	FEB 65	16	15	16	17	18	!9	20		,	
	1	4	Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Total	B/Fwd.	Acc. Total
Drilling	а	On Bottom			1/2	131/2	6/4	15 14	11	58	801/2	138 12
DITTTING	Ъ	Trips	31/2			434	5	574	11/11	19 3/4	6	252/4
Coring	a	On Bottom	1				3			4-1	5 1/4	9 14
9	Ъ	Trips	4		· · ·		51/2			111/2	5	16/2
Conditioning	a	Drilling								y apa√ i	ergeplant.	Market Province State
Hole	Ъ	Other	1174	23/2	<i>پ</i> کے کے	1/2	214	214		613/4	534	115
Deviation Sur	veys	5		<u> </u>	,		1/2	1/4		3/4	1/2	2 14
Rig Service				1/4	:	1/2	11/2	1/2	21/2	614	88	29 1/4
Breakdown Tim	e		1 1/4	1/4	り り	43/4			914	16	6/2	291/2
Testing										West of The	47/0*	TOTAL CONS.
Fishing										edicionismi vitali-		*34;9(4) -
Logging										Novalle (1984)	reserve!	water and the
Casing, W.O.C					!					**************************************	63 /4	6314
Completion /	Abar	ndonment									*****	different.
Standly										*-peptpNop+-	6	6
- Waiting on	, W	de Punp		ļ						20 mily 1944	H 3/4	434
Worker 5	Lu	chi pipe									13 34	133/4
<u>a</u>										·· •		
Aut to 1 - for more 1 common con 1175 - and authorized additional additional and authorized and	Historia de la Maria de la companione de											
									: :			
		Total	24	24	24	24	24	24	24			

TIME ANALYSIS

(Rig Up & Teardown Time Not Included)

Well Name: 1. Seaspray ho. 2

Drilling Contractor: Roading E, Pates

Rig: _

Hours worked during week ended Saturday midnight: 27 February Date FER 65 21 aa 23 24 G 5 26 27 Acc. B/Fwd. Total Sun. Mon. Sat. Total Tue. Wed. Thur. Fri. 5 44 1014 734 24 3/4 138 1/2 On Bottom 163 4 Drilling 25 3/4 3/2 27 14 53 Trips 9 14 9 1/4 On Bottom Coring 16 1/2 16 /2 Trips Drilling Conditioning 21/2 1/4 115 Other 1074 32 147 19 Hole Deviation Surveys 1/4 214 3/4 1/4 1/2 2914 311/2 Rig Service 1/21 2 14

13/4 3/4 Breakdown Time 91/2 aa 1/2 16/2 39 Testing Fishing & making up fish tools 113/4 2214 22 68 68 Logging Casing, W.O.C., etc. 6314 Completion / Abandonment Standly Waiting and Water Fung. Working Stuck Pipe 3/4 4 3/4 13 3/4/ 13 24 aH 24 24 Total

TIME ANALYSIS

Report No. 5

(Rig Up & Teardown Time Not Included)

Well Name: M. Laspray No. 2 Drilling Contractor: Reading E, Rates Rig: 1

Hours worked during week ended Saturday midnight: 6 MARCH, 65. 196_

	Date	Э	FER 28	MAR.	a	3	4	5	6	m +-3	D /E 1	Acc.
		k.	Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Total	B/Fwd.	Total
Drilling	а	On Bottom						12.0	2	wagety fr.	163 14	16374
DI TITTING	b	Trips	5 4	5	12/4	13/4		Hill accordance	e de la composition della comp	243/4	53	773/4
Coring	а	On Bottom								quant	9 14	91/4
	Ъ	Trips		:	:			e Dr. Span mage	Supplementary and the second		16/2	16/2
Conditioning	a	Drilling	1/2 7					3300		evisiónoso	- constitutions	-
Hole	Ъ	Other	6/2	71/2	10/4	73/11			Tronstands	321/2	147	1791/2
Deviation Sur	vey	3	274					in the second se	(March 1944)	2 1/4	2 1/2	4 3/4
Rig Service	***********				1/2				The state of the s	1/2	31/2	32
Breakdown Tim	e		1		i	İ			en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	3)	39	412
Testing				91/2						141/2		141/2
Fishing				! !				Toward Control of the	Taranta de la company	**************************************	68	68
Logging			5 3/4	2	-	2/2				1014	7	1714
Casing, W.O.C					1					opp.	63'4	6344
Completion /		ndonment				lo	24	100	And the second s	30		30
Standly	1 ∕									WENGER.	6	4
Wating	"u	the Pump.								# paper 14	4 3/4	4 3/4
Working	Str	Ita Pemp.									133/4	133/4
W. O. Ord	يمدق	*	2.14							***************************************		
								` .				
		****						E Clin	<u>udone</u>	2		

		Total	24	24	24	24	24					

Company Woodside

Form 7
Report No.

DRILLING PROGRESS SUMMARY

		i	0		DKII	אודחר	PRUGR	<u> </u>	JMMARY				
Well	Well Name & No. 7. Leaspray ho. 2 Week ended Saturday midnight: 6 Jebruary 1965												
:		Dril	led	· ·				ropert			Deviat		Remarks
Date FFR.65	Hole Size	From	То	Feet	Wt. lbs/gal	Visc. Secs.	W.L.	F/C	p^{H}		Depth	Dego	
((50.)				-			150		
2	1214	Smy	630	(590) 630	4)-districtives	*/goodsessed	ANGEN PRINCIPA	elegalization.	*****		625 127	な。	Spud 4:30 AM 2nd.
3	12/4	630	630 880	630 250 850	- Space plant of State of Stat	******	- SERVINGAL	*******	-		880	1/3°	Drilling & Row Casing
4	12/4	८८०	880	6	-30-1004	305			Миданай		-specialistic	***************************************	Circ & Run Casing
5	12/4	880	880	0	Suppostub	oph ys requ e	цуранотинд	was replicative	-		***************************************		
6	12/4	880	880	O	*********	Windows.	entirestratively.	\$*************************************	(arteogelia		enalysisepres	ersterr.	Regging WH press lines
TALLY:	Last	taken at.		ft.	Drille	r Dept	h	ft	. Tall	y depth.			Correctft.

TALLY:	Last taken at	_ft.	Driller Depth	_ft.	Tally depth	ft.	Correctft.
Casing:							

DRILLING PROGRESS SUMMARY

Well	Well Name & No M. Seaspray 46. 2 Week ended Saturday midnight: 13 3. 196 5												
		2 110 QV'	prosex	pray	1 h	0.2	W	eek en	ded Sa	turday m	idnight	: 13	Jel. 1965
Date	Hole	Dril! From	Led To	Feet		-	Mud P	ropert	ies	-	Devia		Remarks
FE8	Size		10	reet	Wt. lbs/gal	Visc. Secs.	W.L.	F/C	Hg		Depth		Itemarks
7	834	880	2043	1163	9.5	40-60	25+	2/2-					
8	83/4	2043	2933	890	1 .							**************************************	Drilling
9	83/4	એ 933		284	·						2124	3/40	Drelling
10	83/4				9.5	39	25+	³/3a	9				Drilling LC Stuck Pipa
hada	3.	3217		Q	8.9-9.1	37 - 50			6-8			3	
11			3762	545	9.3	56	4.4	2/32	9		3765	1 1/40	L.C., MIX. MUD, COND. HOLE.
12	83/4	3762	3930	168	9.2	52	- 1	3/32	8.5		# 1 fbm	1 7	Drilling Mixing mud.
/3	83/4	3930	3950	20	9.1								Drilling, propar for Coul
					7.	55	6.8	**************************************	G)				Cosing & Reaming.

Notoge			
Casing:	T 0.	ft.	Correctft.
TALLY: Last taken atft. Casing:	Driller Depth ft	Toller doubt	

	Form 7	
Report	No. <u>3</u>	_

DRILLING PROGRESS SUMMARY

Well Name & No. A. Seaspray ho. 2 Week ended Saturday midnight: 20 Jeb., 1965 196

				<u> </u>	<u> </u>								•
	Drilled					Mud Properties						ion	Remarks
Date F& B	Hole Size	From	То	Feet	Wt. lbs/gal	Visc. Secs.	W.L.	F/C	p ^H		Depth	Dego	
14	83/4	3950	2957	7	9.2	51	6.2	2/32	8.5		S SO, de la consequencia de	der 1970 Speed	CORING, LC, CAVING HOLE.
15	83/4	3957	3957	O	9.0	60-90	7. 2	2/32	9		A TOTAL TOTAL S	ets/dynistration*	Conditioning hale.
16	83/4	3957	3999	171	9.1	5 a	5.6	3/32	9.5		aristo i frataristra	+Sustain Control	" drilling.
17	83/4	2999	4316	188	9.3	59	6	2/32	9.5		موند <u>ن مواده</u>	c paggiornia;	Drilling
18	83/4	4316	+1496	180	9.3	50	5.6	2/32	9.5		***************************************	dilliane	Cone 3 and drilling
19	83/4	4496	4861	365	9.6	56	5.2	2/32	9		4740	3/40	Drilling
20	83/4	4861	5074	월3	9.7	50	5.8	2/22	J		activities		Dirlling
	.*					<u> </u>	*			' <u>-</u>			

TALLY:	Last taken at	ft.	Driller Depth	ft.	Tally depthft.	Correctft.
Casing:						

Company	Wood	pile
---------	------	------

Form 7
Report No. 4

DRILLING PROGRESS SUMMARY

Well	Name &	· No.M	Leas	pra	Tho	,2	W	eek en	ded Sat	turday mi	dnight:	27	February, 1965
		Dril	Led	<u> </u>	0			ropert:			Deviat		Remarks
Date FEC	Hole Size	From	То	Feet	Wt. lbs/gal	Visc. Secs.	W.L.	F/C	pH		Depth		
aı	83/4	5074	5283	209	9.5	51	5.2	₹/22	9.5		New York Control of the Control of t		Drilling.
24	 		5358	75	9.8	5	5.6	3/22	8.5.		5290	1/2"	
23			5258	0	Warner	50	wyerzether.	antipo distandibena	**************************************		1914/00/2019	vio projective.	Fishing.
24	 		2328	0	THE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, ST	Man Principle Communication Co	velly in markey an	Cointentiment	ed to the state of the state of		actor of the special states	annersteerie.	Fishing.
25		5358	 	0	*************	**************************************	elemberano que de	***************************************	Triange (1974)		-	*************	Fishing (completed)
26	83/4	2328	5258	<u>ں</u>	9,2	56	5.3	3/37	9.5		*Schlander,	********	Circulating
27	634	5258	5353	0	9.a	55	5.2	¥32	8.5		**************************************	angeography.	Circ, E. Logging Run 1.

TALLY:	Last taken atft.	Driller Depthft.	Tally depthft.	Correctft.
Casing:				4

Company Wood	lside
--------------	-------

	Form 7
Report	No. 5

DRILLING PROGRESS SUMMARY

Well Name & No. M. Leaspray 20.2 Week ended Saturday midnight: 6 march 1965													
DLITTED		Mud Properties			Deviation		Remarks						
Date	Hole Size	From	То	Feet	Wt. lbs/gal	Visc. Secs.			pH		Depth		nemarks
FEB ag	83/4	5358	5258	0	9,3	68	5.2	2/22	9,5		30507	J°	Circulating and alec. logging
MAR.		5358		O	9,3	55	5.2	2/32	7.		wyangi njenina	- Constant	Circ. attempt DST no. 1
1 1		5252	2328	_0	9.6	88	5.2	2/3	9		angle from wetter d		Conditions Hole
3	83/41	5358	2528	0	majetypolitistes con-	50	sameur.		contrangues.		so or a publisher		9
l i 1	83/4	5218	2324	O)	and the second	M-Photographics	*D*,34 <u>c34**********************************</u>	The state of the s			Mentile Antile Comments of the		ala la Wala
5													alon dowing Hole.
6													$\overline{}$
			<u></u>										

TALLY:	Last taken atft.	Driller Depthft.	Tally depthft.	Correctft.
Casing:				

	A -
PETROLEUM ACT 1958 (SECTION 45).	Copy.
RECORD OF WORK ATWOODS ide M. Secopyay . To.	L bore on
*Petroleum Exploration Permit) *Petroleum Prospecting Licence) Number	during week
ending IQMN, 5.FFB. 19.6.5	

* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
Surface to 90'(BKE	55: v. crse prly-cemented, clayey
90'-110'	Clay: gray-black, gummy, strike,
110'-275'	SS congl: yellow-gray gtz grains and
	publes, minor gray clays.
275'- 390'	Coquina: Shell & brygon fragments and
***************************************	minor croe, as and gray clays.
390'-880'	marl: gray, cale, w/ brygos frago. prodom;
	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.)

Woter indeterminate; no patroleum ou gas encommend:

Legal Manager, Woodsido (C.E) Oil Co.

Date 5 Flyway 1965.

N.B. The Act also requires the Min

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.

PETROLEUM ACT 1958 (SECT	TON	15).

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

*Petroleum Exploration Fermit) *Petroleum Prospecting Licence) Numberduring week

*Petroleum Mineral Lease

ending 12MN, 5 FEB 1965

* Strike out words not applicable.

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

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	SIO	GAS
ENCOUNTERED.					
					

Signed

Legal Manager,

The Act also requires the Minister to be notified N.B.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).

(Copy)

	,	, -	
RECORD OF WORK AT Wardsile M.	Slaspray	Ma.2. bore	on
*Petroleum Exploration Permit) *Petroleum Prospecting Licence *Petroleum Mineral Lease	Number ./.	60during	; week
ending 12 MN 12 Feb 19 69	· · · ·		

* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
880-2060	marl: gray caleareous possiliferous,
	occas, glaucontre clayen.
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-conciled
	colourles sub-rounded and pitted
	quarty grains and pebbles.
	1 40

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 judeterminate; no petroleum or gas encountered to present depth of 3930.

signed lames C. Luyuan

Date 12 File Legal Manager, Woodselo (L.E.) Oel. co

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.

PETROLEUM	ACT	1958	(SECTION	45).
T TT T T T C T T T T T T T T T T T T T	77.07	・ラン	(DECT TON	サノノ・

RECORD OF WORK AT WOODSIDE N. S.E.A.S.P.R.A.Y. No. 2. bore on

*Petroloum Typloration Permit)

*Petroleum Prospecting Licence) Numberduring week
*Petroleum Mineral Lease

ending 12.MN. 12.F.F.B., ... 19. 45...

* Strike out words not applicable.

DEPTH	DESCRIPTION OF STRATA
880-2060	Marl: gray, calcarens fossiliferons
***************************************	occas, glaucantie, clayey.
2060-3930	Coal measures: predom. coals: how-
***	black dull-luster soft, country
	to platy, assoc, with thick and
	thin beds of sandstones: very
	coarse-grained poorly-comented
	colorless, sub-rounded and pettel
	quarty grains and publies.
	1 00 '

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 in determi	rate: no vetr	deum or gas
encountered to	present deat	h 3930
		,
		AMEN STATE OF THE

Signed Times C. Junyman

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

Date . 2 . / Jeb / 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.

3.

PETROLEUM ACT 1958 (SECTION 45).

RECORD OF WORK AT UQQDSIDE.QIL.N.SEASPRAY.NO: . . . bore on

*Petroleum Exploration Permit)
*Petroleum Prospecting Licence) Numberduring week

*Petroleum Mineral Lease

(DEPTH 4861) ending MN..19/20.FEB.... 19.65....

* 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.

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-

The abundant Erromeous. TERTIARY FORMATIONS.

DRILLING AHEAD represente cavings, this matter discussed with Mr. PERRY 34.2.65. Hoodside had already realized their

mistake Officer Signed JAMES C. PERRYMAN

Legal Manager, Woodside. (L.F.) .Qil ... Co.

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.

	Name of the second seco	3
PETROLEU	M ACT 1958 (SECTION 45).	.
RECORD OF WORK AT .	GODSIDE OIL N. SEASPRAY No. 2 bore on	
	ion Permit) 166	
*Datralaum Droanaat	ing Liconce) Number	k
*Petroleum Mineral ending	Es (Depth 4861)	
* Strike out words	not appricable.	
DEPTH	DESCRIPTION OF STRATA	********
3930-4310	Brown Coal and minor coarse congl.	•
4310-4352(?)	Shale - green gray, selty, carbonace.	ms,
	micaceans, firm.	Jan San San San San San San San San San S
4352(?)-4861	Brown coal wind traces coarse	
-10-1	Randstone and traces gry selts	Fino.
	73.	
		parpoint to
		-
		Manager
		umiginationille
	CHARGE: (State in notes whether water, gained met with, and, if so, give depth and national	
of occurrence, also	depth to which casing has been inserted ar	nd.
cemented.)	oil or gas to present depth.	
- La //		7
- noit - the green	I shall was first believed to mar	<u>収</u>)
the brase of	the more coal socian " howeve	ريط
the continue	O coals dulled afterward indic	dai
lit has m	at net entered pri-Tertian for	mation
Deilli al	3/	manuscontra .
Uruling us	ead. Cop	hupodygg/9944g*
	Signed July , Jaly www	•
a John	Legal Manager, /Worksido (K.E.JO). Co) <u>•</u>
Date	Legal Manager,	
N.B. The Act also	requires the Minister to be notified	
immediately	water, gas or petroleum is encountered.	
Analyses of if available	water, gas and oil should be submitted	

PETROLEUM ACT 1958 (SECTION 45).

PETROLE	UM ACT 1958 (SECTION 45).
*Petroleum Explora	ting Licence) Numberduring week
ending 2MN · 26/27	not applicable.
DEPTH	DESCRIPTION OF STRATA
+1861=5358 	Samples almost 100% dult huster brown coals associated with minor amounts course sands and traces gray billstone.
	The Streylecki shales-sillatones- and sandatones Group is more precured to have been topped near 4000 feet, but makes of Damples has prevented this identification.
or petroleum has be	CHARGE: (State in notes whether water, gas een met with, and, if so, give depth and nature depth to which casing has been inserted and
Water rideter midicale l'a been penetra	minale; gas detection equipment have so gas or petroleum horizons have ted.
	Signed O.A.
Date	Legal Manager, Workind (L.E.) Co. Co.
N.B. The Act also	requires the Minister to be notified water, gas or petroleum is encountered.
Analyses of if available	water, gas and oil should be submitted

77

133

	UM ACT 1958 (SECTION 45).	v.	
RECORD OF WORK AT	Yeonsella N. Janarery Ho.	bore o	n
*Petroleum Mineral	ting Licence) Number Lease)	during	week
ending	19.4		
* Strike out words	not applicable.		
	-		
DEPTH	DESCRIPTION C)F STRATA	
11361 . L. J	Kiney King attack	Car Car	
		Sel to	1
		. No No.	Company of the second
		· •	
			
angli figing the attendency and the subflowers has the service and personal angles program and refer and another received			* x
			-
	A CONTRACTOR OF THE PROPERTY OF		
			<.
or petroleum has be	N CHARGE: (State in notes where met with, and, if so, give depth to which casing has be	re depth and een inserte	nature
		in the second se	
La Laide	te A.	J	***************************************
and the second second			
			,,
	Signed	· · · · · · · · · · · · · · · · · · ·	a Las
Date	Legal Manager,		. Co.
N.B. The Act also	requires the Minister to be water, gas or petroleum is e	notified	
Analyses of if available	water, gas and oil should be	submitted	

PETROLET	JM ACT 1958 (SECTION 45).
RECORD OF WORK AT	lordaide N. leagray no 2 bore on
*Petroleum Wineral	ting Licence) Number :during week
ending MA	19.65
* Strike out words	not applicable.
DEPTH	DESCRIPTION OF STRATA
T.D.5358.	(no addition I hale made since loot report; well is being about doned).
	lood report; well is being
	about doned).
or petroleum has be	CHARGE: (State in notes whether water, gas en met with, and, if so, give depth and nature depth to which casing has been inserted and
There were	no shows of gas or petroleun
during the a	Willing of h. Leaspray no. 2.
- Compl	letion Cement plugs have been
placed overt	he following interests: 3100-3225,
2060-2160	and 750 850, and Surface
plug (to be of	inished today
	Signed amer Forequeau.
Date 1 March	Legal Manager, (Workland L.F.) O.L. Co.
	requires the Minister to be notified water, gas or petroleum is encountered.
Analyses of if available	water, gas and oil should be submitted

PETROLEUM	A CIT	1058	(SECUTION	15)
E PETUTERM	AUT	1900	COUCTION	477

RECORD OF WORK AT	bore on
*Petroleum Explore *Petroleum Prospec *Petroleum Mineral	eting Licence) Numberduring week
ending	4 19
* Strike out words	
DEPTH	DESCRIPTION OF STRATA
There	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
or petroleum has b	N CHARGE: (State in notes whether water, gas een met with, and, if so, give depth and natur o depth to which casing has been inserted and
	tille 1 in to my 2000 2 -
· · · · · · · · · · · · · · · · · · ·	the the thing of the terms
	$J_{\alpha} = J_{\alpha}
and the second s	
	Signed
Date //.//./	Legal Manager, Co. Co.
	o requires the Minister to be notified water, gas or petroleum is encountered.
Analyses of if availabl	water, gas and oil should be submitted e.

John Water Fall-

APPENDIX 4.0....

North Seaspray No 2 Cuttings log

0-40 even-grained med. sand, partially iron-stained. 40 - 50 50-60 sli. less well sorted. 60 -70 70 - 80 med-qud. white sand, all quo. well-sounded 4 polished; chips of day med-coarse sand, occ. grand, agno. of qy. clay, which may be sandy, ā black cerbs chips. 30-100 130-40 ine chips hard blackish 'eoal'.

frue sand to coarse gravel, also chips
frue sandotone à truy carbonaceons chips. 140 - 50 150-60 160 - 70 : -190 well-polished sand as for 110-20, but poorly sorted; not many carbonaceans chips.

90 above, quite gravelly, also carbon's chips telay gravins 190-200 200-10: 210-20: appreciably growelly. 220 -30 : -60: as above, also some hard chips of bro. (? sideritie, slowly dissolving) sandstone, a some glave. 260-70: grains ens apparent fossils. as above 270 -80 frags. of fon. to gy. grean cake sand & mollusca, brack (Terebrete Mid-type), bryozoa, Ditrupa +

Elph. spp. nic E-miperatrix + a miliolid (Triloculina sp) 280-90 290-300,300-10 (ecc. carbonace. chips)

* goes white when dissolved

.../2

```
: hard fruer and. It. ay ( a greenish or bnish tingé) colt. sand asandy marly 1st., more Dibrupa, sli less
 320-30
                    mollusea bysocrati diffood
                     ? contant: 94. carbonact enrich day also reasonade
330 -40 :
                    no. of mollusca.

Inic. mostly Itay, glanc. calco. sst.
 340-50:
                              " mollusca + Ditrepa both still vel. common.
not quite so many mollusca, diff. type
of bryozoa coming in.
 350-60:
  360 -70 :
  370-80 :
                        "clean" ie no contam": rel high ppn. of sand. conver que.

-- fair amt of Ditrupa

-- while Elph imperatrix. usual.
   380-50:
   390-400
   をありてくまるの:
    400-10
                       Jellowish qy sandy (merly) Ist , abundant bryozoa.

(branching type), also Ditrupa. Still some
    430-40:
         commung glane. quo. mosti partially rext bryozod - ako 450-60, 460-70, marty |st (ienot v. sdy).

470-80, 4-80-90, 4-90-500, 500-10, 500-10, (Sample almost entirely bryozoa)

1- Atherwise as above. Cellaric is
 440-50 :
                    rather sdy sediment, otherwise as above. Cellaric is
-also 520-30, 530-40, 540-50, 550-60 amongst the
bryozos
                      u. highly sdy. 1st quite hard (trext), brown-stained, inc. Elphidim paris.
                      as above some almost a catal sit also occ. Some chips hard 1st, Cellaria, a Dileupa. I grain
    -also 580-90, 590-600, 600-10,
  6:0-20: es above, but qy +glauconitic.
620-30: yellewish qy. again.
   630-40: fine to med sand many of the pro. reddistr brue due to Ivon-staining, occos. Ditrupa.

- also 640-50, 650-60
             - also 640-50, 650-60
                                            (gyish material
                                                                                                _./3
```

```
as above, much of the quanty shows
   670-80:
                                 appreciable rounding.
, kur chips of gyish 'marly 'sand.
    : 06-089
   690-700:
                  predom. 94. Sandy marly 1st. & glauc.,

some & Ditrupa

as above, also 730-40, 740-50, 750-60, 60-

not v. sandy (marky 1st, that is)
   700-10 :
    710-20:
                                                               ,750-60, 60-70
                                          * 770-80 , 780-90
   790-800: It- grey bryozoal marly 1st," high glauconite recrystalised.
                 -also 780 - 10, 810-20.
  Ditrupa + common Operculina victoriensis.
-130-405 also 930-40, 840-50, 850-60, 860-70, 870-80,
[ some malluscan frags in this stuff ]
  280-90: It. qy marly 1st. c glauc. grains & Amphistequia

lessonii (also an Astronomión) [CEMENT GINS.]

Sergoon + Lepidougchia (shi. worn-looking).
   890-900: as above, also Companie howchini. L
       -alro 900-10, 910-20, 920-30, 930-40 340-50, 950-60, (L) (L) (NO L.) (L) (noL.)
          960-70, 970-80, 980-30, 1990-1000, 1000-10,

(no L) (Lp. more ) L(c) L
         1010-20 (sex), 1020-30, 1030-40, 1040-50, 1050-60,
          1120-30, 1130-40, 1140-50, 1150-60, 1160-70, 1170-80,

L, Cyclodyp. L, Cypo. L
Amphist.
         1180 - 90, 1190 - 1200, 1200 - 10, 1210 - 20, 1220 - 30, 

L, rel. e L, Gups L
throughout.
         1230 -40, 1240.50
     L, vel c
```

.../4

4

```
as above, haces 94. clay around, also pyrite (? manl).
   1250 4-60 - :
  - also 1260-70,
                                 1270-80
30me "mud - lumping
                                                                                         1290 - 1300,
                                                                       1280-90,
                                                                                     & lithol besically a
                                 + pyrite
                                                                                        rexa marly 1st, some = glaue-bryozoa ab.
                                                                                      = some of them rather
        1300-10,
                                                                                         dark-greyish .
       ( Lep. trace, prob.
           contaun")
                           some contamn, also occ. donne lst. chip.
 1310-20
           130: some que den que marly 1st (sl. pyr), glane.

traces, bryozoal, ; <u>Anythistequia</u>.

—also 1330-40, 1340-50, 1350-60, 1360-70, 1370-80,

(some ships
quite dense)

also contem", inic.
a Lep fragment.
                           hand st, occ. chips qy. clayer marl also bryozoa more like those of true Lonfordian.
(stick-like, dopaquet dyellow),
- also 1390-1400, 1400-10
1400-10: large chips of qy. man with poorly-preserved bryozoa, also dense marly 1st.

1410-20: dense marly 1st, also qy marl è glanc, spankling due

2 mary calcite.
                         hard marly 1st (rexd)

occ.! X'lline 1st.

also abundant bryocoal freigs.
1420-30 :
1430 - 40 :
 1440 - 50 :
1450-leo:
                                              och chips elayer mark.
 1460 - 80 :
                                               , quo. pyrite.
   1480 -90
 1.490 - 1500
                       It qy marly 1st, also qy clayey marl.

as above, also 1520-30,

as obore, almost entirely marl.

largely marly limestone, we hard, which is apprecially alenconitic
 1500-10 :
 1510-20 :
 1530-40:
1540-50 :
```

1350-60 as above large peeces of qy. dayey merl, à faint traces of vorn bryozoa. as above, also smaller chips of morty 1st (contain?) 1560-70 1570 -80 pred. hard marly 1st (glave.)

large piece of ment, also chips of marly 1st.

gy marl, but predom. chips of marly 1st, both 1580-90 15 90-1600 1600-10 as above, enormous piece of marly 1st. chips of marly 1st., occasional marl. 1610-20 16 20 = 30 v. deuse yellowish white Ict/marky, v. fine quety, 1630 - 40 as above, also yellowish qy, puggy manl = smyoroa traces. 1640-50 - elso 1650-60, 1660-70, 1670-80, 1680-90, 1690-1700, Tappens to have a faint quish. tinge by about 1800-10. 1690-1700 [miliolides rel. common, partic. @ 1990-2000. " one or two ships of rel. hard glave." man! "(|st)! ??! 2020-30 2030-40 as above, ou glave quo. as above, apprec. no. of "Cyclammines", 2040 -50 2050-60: v. par sample. : occ. glave, one piece glave. mon!. 2060-70 also 2070 - 80, 2080 - 90, 2090 - 2100. : *2 mars contant. *2 high ppn- of sand, fine to coarse, tocc. gravel, gravets, glave/pyr. *2 hips highly glave. mars ; +brown sucrosic glave. dolomite, *5 chips on lignous 2100 -210 clay t embedded sand; 2,10-20: as above - apprec. En sueronic glave dol, some quarty - a fish fragment & a worn-looking molluscan fragment

1./1

6

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Prob. 70% 3F.
Lv cm.
L120 - 30
                   as above, dol. not as common -also a chip of brown wal.
                                                           high
downhole
content.
                  as above
                    - also a br. ligneous day chip.
   2140 - 50
                    chip ben coal, containt.
   2150 -60
                   occidips ·==
    2160 - 70
   2170-80
                   occ. larger dips bu coal, contant.
   2180-90
   2190-2200:
                   Some coal, with traces of sand in some coal, chips, pred. a f-ned. and. partially rounded 13. sand.
   - 2430:
   2430-403 :
       2200-10: bn. coal, soud(?) email (contamt).
       Jeorse.
                 bon. coal chips, also v. high marl contamination.
  2500-10
                 coal sandamerl.
   2510-20 :
                coal, sandagravel, Amort.
coal sand, occ-marl.
   2520-30:
   2530-40:
                 en roal
   2540 -50
                 coal smarl, minor sand.
   2550-60
                 coal, sand amoul
  2560-70
                 Coal, sand imast.
   2570-80
   2580-50:
                  predom. brown coal.
  2590-2600
                 doal, want sand.
  2600-10:
                 coal, apprec. sand, + occ. marl.
   2610-20:
  2620-30:
   2630-40 !
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26 40 -	50	ŧ	sand,	coal	freigs.	, she	ome m	arl c	-onlam"
2650-6		?	as above		. 1				
							1		
2680 - 2	800 DEPTH	: Sp	bon, coal	(assoct.	calco.	med'@	2740-5	0.)
	PAR	٤3							

....

7.

Preliminary	Cuttings Log.
	: no samples.
40 - 80	no samples — " grey-black and, not wadrable,
80 - 110	no samples — " grey-black and not wadrable, according to well-site geologist.
110-150	rounded upolished, fragments of grey carbonaceous clay, elso chips of black coal.
150-190	: fine sand to coarse granel; also chips of grey Sandotone, fine grained, with small carbonaceous chips
0 - 260	mell-rounded; occasional carbonaceous chips.
260-280	: as above; also some chips of hard brown calcareau sandstone with traces of glanconte.
280 - 320	: brown to greyish green calcareous sand with mollusca, brackis pods (not common), bryozoa, forther common Ditrupa and foraminifera; occasional
	Carbonaceous Chips. (often with greenish trige)
320 - 430	: hard (partially recrystallised) light grey & sandy
	marly limestone (possibly some marly sandstone'),
	marly limestone (possibly some marly sandstone), Ditripa more common amollinea less common than above. brygzoal
430 - 560	: yellowish grey soroby marly limestone and
	limestone often partially (andy still with traces of glanconite; bryosoa are abundant & Ditrupa common.
560 - 630	: yellow sandy limestone-possibly some calcareous sand- iron-steined appreciably recrystallised; Ditrupa
	relatively common; grey partially glauconiteic, sandy marly himestone at 620-30 feet.
630 - approx.7	fine to medium grained, partially rounded, brown
	colouration due to Iron-staining; some Ditrupa.

ght gray bryozoal sandy marly limestone, & with glauconite traces; also Ditrupa. : yellowish white by ozoal linestone, highly 880 receystallised, with Ditrupa + common Operculina victoriensis, also same molluscan fragmento. light grey bryozoal merly limestone, with glanconite traces, and relatively common Amphistegina lessanii, also some Lepidoryclina as above, but traces of grey clay (or?man!), darker grey, pyritic, marly limestone, and loose grains of pyrite. dense brownish grey marly limestone, sometimes glauconitic, and also grey clayer merl, often 1630 pyritic; recrystallisation common; bryozoa different to those above. dense yellewish white limestone/marly limestone, very fine grained months with specks of both pyrite and glanconite; also yellowish rey marl with traces of worn bryozoa.

yellowish grey puggy forammiferal mond,

with very faint greenish tinge below

approximately 1800 feet; chips of hard glauconitic

mand noticed below approx. 2060 ft. quents sand fine to coarse, and minor gravel, with A glauconite apprite; chips of brown sucrossic glauconitic dolomite (with some quenty); traces 2100 - approx. 2120 of brown ligneous clay; traces of mellusca efish fragments. highly contamnated samples, including traces of approx 2120 - 2210 brown coal oligneous clay.
brown coal (traces of sand in the cultings)
coal sand, and mark contamination, with 2210 - 243024-30 - 2680 definite brown coal at 2540-50ft. and 2590-2600ft. brown coal. 2800 (total depth of Samples)
To date

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L.

	-	A POST PER PORT IN	= 430 A	D CO FED	
-		A = 0		COR	OG
		APHI			

Page 1 of 3

Well N. SEASPRAY No. 2

Core No. 1 of 3

e and	Type Co	re He	Ft. to 3948 Ft. Cut 18 and 61/8" Christian Dramond, #0	Ft. Recovered CO72Describe	. 3 ed by.∽	Ft. 10Dga	% R	لنك						
te 12-13 February, 1965 CORE ANALYSIS DATA														
RING ATE	oeY	T OIL SHOW		SHOW		Permeability Millidarcies		RESI						
	итнособу		LITHOLOGIC DESCRIPTION	DESCRIPTION	% POROS			OIL		Water	S. GR.			
n/ft		19				Horitz.	Vert.	% Vol.	% Pore	% Pore				
5			Rocoured one knobby	Nil										
5			base-ball sing lumpton											
		·	very course posity-sorted											
5			piliteres conglimento:											
٥	S 1		mostly light -ciliared	•										
14	TYNS DIM		as ains Debbles and Small											
	5 +		colles of mulky - white			<u> </u>		-						
6	The A		or colouries or smaky-											
7_	5		gray and occasional nava											
24	7		ting coal chip components,											
5	40		all in a tan-coloured		#									
6	Ö	1	Cayly - Sily Macy line											
3	,		activistics (surprise grains											
) Li		and polities can be pulled			-								
5	}		lose by light touch				<u> </u>							
4	· · · · · · · · · · · · · · · · · · ·		pico crimbiles surry with											
			Careful handling)			1								
	. 177		Careful handling) of white (milhy) siliceous malais					·						
	SB		measures over 2" across,				-							
	Z		Deveral one 1ª across.				-		<u> </u>					
-	1		Tounding is mon-	•										
	₫,		Porosity not endent them	,										
	~		my gust through the silty	<u> </u>										
			matri malouit								<u> </u>			
-			Dis: indetermenata.			-	ļ-	-		·	-			
•			Bit completely lound, deating	2d .										

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. Well WCOD, NOZN, SEASORAY GRAPHIC CORE LOG Core No. 2 Interval from 3950 Ft. to 3957 Ft. Cut 7 Ft. Recovered 3 Ft. % Rec. 42.8 Size and Type Core Head HTC 834 Type J Blade - Described by JCP man. Date 14 Feb., 1965 Depth CORE ANALYSIS DATA ORING RESIDUAL FLUIDS SHOW LITHOLOGIC DESCRIPTION Permeability RATE DESCRIPTION Millidarcies Water min/ft POROS % Vol. % Pore % Pore

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L.

(4)

GRAPHIC CORE LOG

3/3

Well N. SEASPRAY No. 2 Core No. 3.

Interval from 4340 Ft. to 4352 Ft. Cut 12 Ft. Recovered 12 Ft. % Rec. 100 Size and Type Core Head 83/4" HTC J. BLADE, No. 9510 Described by J. Dungman Date 18 February, 1965. OIL SHOW RATING Depth LITHOLOGY CORE ANALYSIS DATA CORING SHOW RESIDUAL FLUIDS LITHOLOGIC DESCRIPTION Permeability RATE DESCRIPTION Millidarcies OIL Wate min/ft POROS Horitz. Vert. % Vol. % Pore % Po 18 20 3

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. PROGRESS WELL LOG — LITHOLOGIC DESCRIPTION

SHEET No.:.... INTERVAL FROM... DATE 2 FER-SFER LOGGED BY JCPunguan. 740 DESCRIPTION OF SHOWS % LITHOLOGY AND MUD LOSSES GRAPHIC LOG DEPTH SCALE 1:600 OIL SHOW RATING CASINGS-PERFS PLUGS SW CORES CORES SHOW FLUORESCENCE DATA EST. POROSITY LITHOLOGIC SANDSTONE GAS LIMESTONE ANHYDRITE DESCRIPTION DOLOMITE 급 SHALE CUT AGE DRILLING RATE (MIN/FT) Q 100 SS: V. CRSE, WH- MILKY-CLEAR QTZ - GRAINS; SUB-ROD - SUB-ANG., POORLY CMTD, SL.CLAYEY. 100 90 100 CLAY: GRY-BLACK, GUMMY-STICKY LW/HR GRAVELS (AV 3 /MIN) SS CONGL: LT. GRY-PALE YELLOW 110 POORLY-CMTD, V.V. CRS& PRLY-SORTED 0 hate Ve l'i · of to. ROUNDED PITTED QTZ GRAINS E, (au 0 - PEBBLES; ASSOC . W/MIDDE GRY. CLAYS 5MN/30 200 -... COARSER, BETTER SORTED GRY. JEMMYS PT. FM COQUINA: SHELL FRAGS & WHOLE SMALL 275 SHELLS PELECYS & GASTROPODS & CORALS .
MIXED W/ MINOR FN-MED GRY SS ... 300 10 90% - " CONTINUED COQUINA, ASSOC. W/ INCREASING SDY GRY SH. DOWNWARD. ~ 370-400 SS: MED, SOFT, DIRTY GRAY, POROUS,
ABUND. FINE SHELL MATERIAL CONSTITS.
PREPOM. BRYZ. DEBRIS IN GRY. MARL. ROVO MARL 1007. <u>G</u> <u>G</u> <u>G</u> BRYZOAL MARL WMINOR CALC. SILTS. G & . 6.6.6 500 3 6 6 560: St. HARDER (FM CHANGE?) ton-gry fossilif Lime MARL, 504. HARDER 560 6 3 G E Ø__ 5 600 ... CONT. LIME MARL, V.V. FOSSILIF; SDY. ς હ 8 6 5 SDY MARL: GRY-BRN, SOFT, V. CRSE
-SVB-RDD GTZ GAAINS MIXED W/V.
FOSSILIF FIRM TAN LS MARL THINBEDS; REWORKED SS-LS DETRITAL 3ه 70% Ġ 700 30 AV 5MIN/30 B 30 30 D.P. 7/63 W/T No. 8404

WELL. N. SEASPRAY No. 2

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. WELL: N. SEASPRAY No. 2 PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION SHEET No.: 2 INTERVAL FROM 740 DATE 3-7 FEB 65 LOGGED BY J Penguan. ELEV. K. B. то 1480 DESCRIPTION OF SHOWS AND MUD LOSSES % LITHOLOGY GRAPHIC LOG DEPTH SCALE 1:600 OIL SHOW CASINGS-PERFS PLUGS SW CORES CORES CHANGES SHOW FLUORESCENCE CUT STAIN DATA LITHOLOGIC EST. POROSITY DOLOMITE SHALE CLAY ANHYDRITE FORMATION LIMESTONE DESCRIPTION GAS <u>=</u> DRILLING RATE (MIN/FT) 2 3 4 5 6 ... CONT. SOY GRY LE-MARL 30 20 9 5 CSG @ 818.9 20 w/270 Sex. 10 10 MARL 907 MARL AS ABOVE: LT.GRY, SOFT,

V. FOSSILIF (MOSTLY BRYZ. FRAGS),

CALC, W) OCCAS. FIRM THIN BEDS

FOSSILIF. LS; SL. SDY, CLAYEY.

TRACE GLAUC. PELLETS. 900 1100 1200 "" CONT. GRY FOSSILIF CALC MARL W. V. LITTLE LITHIC VARIATIONS REYOND MINOR CLAYS-CLAY SILTS-SOFT FOS, LS; BELOW 1400, INCR. IN GLAVC PELLETS IN SHTY CLAY SHS. 1400 Ţ -.. V. GLAVE . AV. 2 /MIN.

D.P. 7/63 W/T No. 8404

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION

WELL: N. SEASPRAY No. 2 SHEET No.: 3 ELEV. K. B.... DATE 7-8 FES 65 LOGGED BY JC Buymen. INTERVAL FROM 1480 TO 2210 DESCRIPTION OF SHOWS % LITHOLOGY AND MUD LOSSES GRAPHIC LOG DEPTH SCALE 1:600 CASINGS-PERFS PLUGS OIL SHOW SW CORES CORES GAS SHOW FLUORESCENCE CUT STAIN ĎATA EST. POROSITY LITHOLOGIC SANDSTONE SHALE CLAY ANHYDRITE LIMESTONE DESCRIPTION FORMATION AGE DRILLING RATE (MIN/FT) 3 10 MARL 90% AV. 2'/MIN. "CONT. MARL: GRY, GLAYFY, CALC,
FOSSILIF, SOFT, SL. SILTY, SL. SBY,
OCCAL GLAUCONITC; GUMMY --STICKY BECOMING V. CLAYEY - GUMMY. AV 2 /MIN. Check JBH as to base of 2000 LATRORE 80 ... INC.P CRIE-MED RDD LOOSE QTX GRAINS. CONT. CLRY-COALS 3 70 30 70 3124 COAL - MINOR LARGE CHUNKS,
BAK, ROTTEN, ASSOC. W/ ABUND CRSE BIT 3 83/4" HTC OSC 3 70 30 70 3. 70 MIXED (RSE LOOSE ROONDED GTZ. SDS, MED-FN SS, GRY CLAYS, CHIPPY TO EARTHY BLK. COALS. SOFT. COAL: BRN-BLK, BLOCKY, DULL 30 70 AV 5+ /MINI D.P. 7/63 W/T NO. 8404

- WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION

WELL. N. SEASPRAY No. 2 INTERVAL FROM 2220

	ELEV. K. B. FT. DATE 8-9 FER 65 LOGGED BY										to 2960										
		- - 		T		DESCRIPTION OF SHOWS									<u> </u>		10 2760				
BIT CHANGES	DRILLING RA	1 1	CASINGS-PERFS PLUGS	SW CORES CORES	GRAPHIC LOG DEPTH SCALE 1:600	OIL SHOW RATING	₩ GAS SHOW F	ORESCENCE 6	LOSS	ES	<u></u>	LIMESTONE				RITE	COAL	LITHOLOGIC DESCRIPTION	FORMATION	AGE	
T	1 2 3	4 5	4 7	,		1.0				-	+	\pm		+-	+-		90	COAL: BLACK-BRN BLOCKY DUL		_	
	Av. 6'/MIN.			2300			TRA		- 1	.4.4	7 16	COA	4		10		100 100 90		T		
	2357: 54.440	CE DURING		2400									10 50	_			100 100 90 50		MEASURES		
	\$4. k.c.	TRIEV THE		2500									70	,			30 30 30 30	CRSE LOOSE WHITE TO C'LESS RTZ SNDS BECOME DOMINANT	COAL	F Y	
				2600									10 10 10 20 20		40 40 40 30 30		50 50 50 50	SND COUTENT DECREASES CLAY CONTENT INCREMES	VALLEY	 -	
													36 30 30 30		20 20 20 20		50 50 50	CLAY CONTENT DECREASES SND CONTENT INCREASES	ATROBE		
	7		- 2	2700									5		10 10 10		90 90 85	COAL CONTENT MCREASES SHARPLY SAND CONTENT DECREASES LARGE CHUNKS OF BLOCKY BLACK - BRM. COAL ; HARD THIN PLATES MINOR CRSE LOOSE QT2 SDS.	7		
	5		Ž	2000									5		10 2 2	6	18	COAL: BLK-BRN PLATY-BLOCKY, FRM DULL LETR; W/MINOR GRY CLAK			
	TIGHT SA		2	2 900											2 2 2 2 2 2	6 6	78	···CORLS PREDOM.			

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. PROGRESS WELL LOG — LITHOLOGIC DESCRIPTION

DATE 9- FEB 65 LOGGED BY JOHN INTERVAL FROM 2960 ELEV. K. B TO 3700' DESCRIPTION OF SHOWS % LITHOLOGY AND MUD LOSSES GRAPHIC LOG DEPTH SCALE 1:600 CASINGS-PERFS PLUGS GAS SHOW DATA FLUORESCENCE EST. POROSITY LITHOLOGIC SANDSTONE LIMESTONE ANHYDRITE DOLOMITE DESCRIPTION FORMATION SHALE COAL STAIN CLAY DRILLING RATE (MIN/FT) 98 SAMPLES CONTINUE NERRLY TOTALLY COAL: DK. BROWN, DULL, BLOCKY, BRITTLE, ASSOC. W/ TRACE 98 78 GRAY CLAYS; 3000': ABUND. SS: V. CRSE SVB-ROUND. COLORLESS GTZ GRAINS, 80 5 ALL LOOSE. 5 TIGHT SPOT 3067 5 5 3100 5 95 60 3120:55: V. CRSE, V.CLEAN, COLOR-LESS, ROD-SUBRIDD QTZ. GRAINS. 100 COAL AS BEFORE, W/V.V. CRSE LOSSE ە2 50 ATT SD. GRAINS (SD. CONGL.) 70 60 COMPLETE LC 3217 COAL BRN-BLK, BLOCKY, DULL 100 WI REDUCED FOR SLOWER PENETRATION + STUCE PIPE, True DAYS 100 100 100 ... tr. crse. ss. 100 100 25 ... MINIOR AMT. CREE LOOSE SD. 5 95 170-80 3400 95 5 5 95 3455 Assoc. 4/ CREE BTZ 30 SKAS 20 80 30 70 40 30 70 40 40 60 3612 60 COAL AS BEFORE ASSOC. W/ ('LESS 50 SUB ANG, MOD. SORTED ERSÉ ATZ SANDS ALL LOOSE. 60 40 60 60 7/63 W/T No. 8404 4

WELL: N. SEASPRAY No. 2

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L. WELL: N. SEASPRAY No. 2 PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION SHEET No.: 6 DATE - 18 FER LOGGED BY JOHNS INTERVAL FROM 3700 1 TO 4420' % LITHOLOGY AND MUD LOSSES GRAPHIC LOG DEPTH SCALE 1:600 CASINGS-PERFS PLUGS SW CORES CORES CHANGES SHOW DATA FLUORESCENCE POROSITY LITHOLOGIC DOLOMITE SANDSTONE FORMATION AGE **GAS** LIMESTONE ANHYDRITE DESCRIPTION CLAY 5 EST. DRILLING RATE (MIN/FT) BLACK-BRN, DULL BLOCKY COAL ASSOC W/ ABUNDANT CRSE C'LESS, SREANG, LOOSE SNOS (QT2) W/ TRACES WHITE MICA 410 40 40 -8-3/4 80 90 70 80 90 20 30 osc3 3806 20 10 90 20 80 30 20 80 30 CORE 1, 6 % CHESTENSIN BIT, CD 72 CIRCULATED SAMPLE AT 3930 GAVE 60 % COAL, 40 % SAND CIRCULATED SAMPLE AT 3950 GAVE 95 % COAL, 5 % SAND PROSPALY TRAC COR 2 3950- 7 2 WHTC J. B. BIT 6 3948-52 BIT 688 3957 OSC2 TE CORE 1, 3720-48 , RTC. 4" CONSL : PRLY-100 TR CATED, 072. 52 - PER- COBSLE, RID GLAINS. CORE 2, 3950-57, Rec. 3'11" CORL,1" loo 4000 TR TR 100 CONSL AS ABOVE. TK 100 JR 100 EL. INCR. V.CRSE LOOSE QTZ. SS. 95 95 100 5 TR 4100 4728 100 BIT 7 |834" 95 5 95 5 95 TR 4200 100 TR 100 - Check logs (if any) loo 100 TR 100 100 4300 HEIO:
FIRST FN GLANC-PELLET SS V.FN SILTSTE
TAN-GEN, SOFT, FULLY MICAC; TEACES ONLY TR 100 4340 C8 · 3 BIT 8 BY4" OSC3 874" HTG J. BLADE, COME NO. 3 98 TR. 100 ABOUD CRIE LOOSE SS (CAVINGS FROM 4352 D.P. 7/63 W/T No. 8404

WOODSIDE (LAKES ENTRANCE) OIL COMPANY N.L.

WELL: N. SEASPRAY NO. 2 PROGRESS WELL LOG - LITHOLOGIC DESCRIPTION SHEET No.: 7 DATE 18-21 FEB 65 LOGGED BY LOGUELL INTERVAL FROM 4440' ELEV. K. B..... TO 5180' DESCRIPTION OF SHOWS % LITHOLOGY AND MUD LOSSES GRAPHIC LOG DEPTH SCALE 1:600 CASINGS-PERFS PLUGS OIL SHOW SW CORES CORES CHANGES SHOW DATA POROSITY LITHOLOGIC LIMESTONE DOLOMITE SANDSTONE SHALE FORMATION GAS ANHYDRITE DESCRIPTION **8** STAIN CLAY 5 EST. DRILLING RATE (MIN/FT) DESPITE CORE 3(4340-52) INDICATING
PRE- COAL MERSURES, SAMPLES CONTINUE 99+70 COAL (CAVINGS?), W/
TRACE AMOUNTS CRIE ES & SILTSTANDS. 99 99 ١ 450 97 FINE CUTTINGS TEXTURE SUGGESTS CORL ACTUALLY BEING DRILLED. ١ 99 99 ı 99 99 MERSURES? ... CONT. COALS W/TR CRSESS 99 & FN GRN-BRY, SILTSTONES . ı 99 1 99 1 99 1 99 1 99 4700 1 99 CONT. COAL . TRACES OF SAR, 99 ı GRHISH by SILTSTONE, Ca CARS. 1749 BIT 9 Big" OSC3 99 1 4800 5 PUMP REPAIRS ... INCR .IN V. CRSE LOOSE OTZ. SD. 95 100 95 4790-4820, 4850-70 5 NORMAL DRILLING 1 99 99 95 95 4800-5080 4900 99 99 CONT. COAL W/TR MED SS, 99 GRISH SY SLIST, CALC. NODE. 99 99 99 5000 COAL W/10-20 2 GW-GY ANG. SO WITH CALC MATRIX. GLANN, SOFT W INCONGRESS. 10 90 99 WT. JUDICAT 99 5074 83/4 v 05C3 3 97 97 5100 3 97 3 97 3 ... CONTINUED COAL W/MINOR CRIE LOOSE QTZ. 50. & FN GRN.SS 3 3 SILTETPUTS. 7/63 W/T NO. 8404

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	PRO								entrand – LIT											N			WELL: N. SEASPRAY No.2	
									DATE2	ر م					L	οŦ)						INTERVAL FROM 5180'	
		ELEV	/. K.	В			FT	······································	DATE							16	<u> </u>	, ma	<u></u>	•			TO 5920'	
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BIT CHANGES	DI	DIP DATA	NG I	TESTS	(MIN	CASINGS-PERFS		SW CORES	GRAPHIC LOG DEPTH SCALE 1:600	OIL SHOW RATING	₩ GAS SHOW	FLUORESCENCE	CUT	STAIN	EST. POROSITY	LIMESTONE	DOLOMITE	SANDSTONE	SHALE	CLAY	ANHYDRITE	COAL	LITHOLOGIC DESCRIPTION	FORMATION
	φ .		2	*	4 .	-	4	5200										2				98	"PREDOM BRN CORL WINNER COCK TO SE	_
	, –		15	-				500	1									2				98	- PREDOM. BRN. COAL W/MINOR CRSA-FN IS; Graen, POORLY - SRTD, OCCAS. CALC.	
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THE TARTIARY 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. Perish: Wulle 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:	Tog is pased on the examination of to fee captings
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 carbon- aceous 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, bryozca, Ditrupa and foraminifers; and occasional carbonaceous chips
320 - 450	hard (partially recrystallised) light grey (often with greenish tinge) sendy marly limestone, and possibly some marly sandstone; <u>Ditrups</u> more common, and mollusca less so, than above
430 - 510	yellowish grey bryozoal limestone and marly limestone, often partially sandy, and with traces of glauconite; bryozoal are abundant and <u>Ditrupa</u> common
510 - 560	: as above, but more sandy
560 - 620	: yellow sandy limestone, and probably some calcareous sand, iron-stained, appreciably recrystallised; <u>Ditrup</u> relatively common
620 - 630	: grey, partially glauconitic, sandy marly limestone
630 - 700	: yellow-brown quartz sand, fine to medium-grained,
(approx)	partially rounded, brown coloration due to iron- staining: presumably partially calcareous; some
	Divina
700 - 820	: light grey bryozoal recrystallised sandy marly limestone with glauconite traces; also <u>Ditrupa</u>
820 - 880	yellowish white bryozoal limestone, highly recrystallis with Ditrupa and common Operculina victoriensis, also some molluscan fragments

880 - 1250 1	light grey bryozoal marly limestone with glauconite traces; relatively common Amphistegina lessonii
	and some Lepidocycline Howchimi
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 vellowish 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 glaucomitic 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: Heunted 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 Ditrupa, and foreminifera. The latter are limited in number, and consist of Elphidium sp. including E. imperatrix, Triloculina sp. and Monion Victoriense. These species typify shallow water conditions.

320-430 feet: Tambo River Formation.

The lithologies conform to what is being referred to as the Tembo River Formation (Hocking, 1965). Mollusca are typically less common than above. The microfauna is very poor, and the only species recorded are Astronomion 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 <u>Orbulina universa</u> was not observed, the boundary between these two stages could not be selected. Microfaunas are very poor throughout, although the larger species <u>Operculina victoriensis</u> 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 shellow water bryozoa, such as <u>Cellaria</u>, and also by common <u>Ditrupa</u>.

880-1250 ft: 'Batesfordian'.

lessonii and Lepidocyclina howchini. Both are common throughout this Interval, the letter being restricted to it. Lepidocyclina is most common between 990 and 1080 feet. Gypsina howchini, Cycloclypeus victoriensis, Notorotalia miocenica, and Calcarina of verriculata occur to a lesser extent.

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

1250-1690 ft: Longfordien.

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

1690-approx. 2120 feet: Lakes Entrance Pormation.

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 evapertura, Globorotalia extans, Astronomion centroplax, Cibicides brevoralis, C.perforatus, Elphidium crespinae, Gyroidina sealandica, 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. Heophax sp., Textularia sp. and Trochammina sp. Molluscan and fish fragments occur also.

All microfeunas 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 fertiary Stage (after Carter, 1964).
Heunted Hill Gravels and Boisdale Beds		
*********	280	
Jemmys Point Formation	* 320	Kelimen
Tambo River Formation	A Novel A	Mitchellian
Gippsland Limestone	F.U. 11 & 10	Bairnsdalian & B alco mb i an
	# 15 15 15 15 E	Batesfordian
	7740 F.U. 6-	6 Longfordian
Lakes Entrance Marly unit Pormation Sandy unit	2127 F.U. 5	Janjukian
Latrobe Valley Coal Measures	4900	
Strzelecki Group	IOPEE	GREIAGEOUS.

REFERENCIS.

Carter, A.W., 1964. Tertiary foraminifers 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.

<u>Vic. Mines Dept. unpubl. rept.</u> 5/1965.

Hocking, J.B. & Initial marine transgression in the Gippeland Taylor, D.J., 1964. 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 mightocour above 40 ft. but were not observed in the samples taken.

The Bushy Park Teds 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 Pormation.

All samples examined in this interval are unfossil-

280-320 feet: Jemmys Point Pormation.

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, bryozos, the calcareous worm tube <u>Ditrupa</u>, and foraminifers. The latter are limited in number, and consist of <u>Elphidium</u> spp. including <u>F. imperatrix</u>, <u>Triloculina</u> sp. and <u>Nonion victoriense</u>. These species typify shallow water conditions.

120-430 feet: Tambo River Formation.

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

430-1690 feet: Gippeland Limestone.

An approximate stage subdivision is as follows:

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

820 feet. <u>Elphidium parri</u> is noted in eamples of sandy limestone below 560 feet.

The sandy sediments in particular are characterised by shallow water bryozos, such as <u>Cellaria</u>, and also by common <u>Ditrupa</u>.

880-1250 ftr. Batesfordian.

Amphisterina 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 miccenion, and Calcarina of 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 contemination.

Camples below approximately 1400 feet contain definite Longfordian microfaunas which include <u>Clobigenina woodi</u>, <u>Astrononion gentroplax Cibicides perforatus</u> and <u>Cyroidina zealandica</u>. 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) pugly marls (1690 feet) also represents the top of the Janjukian. The relatively abundant microfauna of these marks consists of such calcareous species as Globigerina ampliamentura evapertura, Globorotalia extans, Astronomica centroplax, libicides brevoralia, C.perforatus, Elphidium crespinae, Gyroidina zealandica, Motorotalia, crassiaura and Friloculina sp. The Janjulian in this well is also characterised by a good arenaceous fauna which includes Ammodisus sp. Clavulinoides sp. Gaudryina sp. Haplophragmoides incisa, H. of. 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).

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 Coul Measures had not been entirely penetrated at the time this report was written.

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

Summer Tible.

	Depths (It.)	Faunal Unit and
	(based on outtings samples).	Local Certiary Stage (after
		Carter, 1964).
Haunted Hill Gravels and		
Puchy Park Redo	280	****
Jemmy's Point Formation	320	Kalimman
Tambo River Formation	430	Mitchellian
Gippsland	F. U. 11 & 10	Pairnedalian and Paloombian
Limestone	F 9	Basesfordian
	P.U. 8-6	Longfordian
Lakes Entrance Formation	F.U. 5. approx.	Janjukian
Latrobe Valley Coam Teasure	*	Anglesean.

Teferences:

Carter, A.N.: 1964. Sertiary foreminifers from Cippsland,
Victoria end their stratigraphic significance.

Geol. Surv. Vict. Memoir 23.

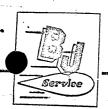
Hooking, J.B. and

Taylor, D.J. 1964: The initial marine transgression in the Gippsland Basin, Victoria.

A.P.E.A. Journal, 1964, pp. 125-132.

J.B. Hooking. Geologiet.

APPENDIX 5.0....

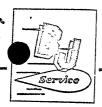


•

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

1.77	S.o. Recorder No2238
Depth4/00'	Depth
mittal 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 Saut-in Press	Final Shut-in Press
Final Hydro Mud Press	Final Hydro Mud Press
Temperature N_sR_s	Tool Open Before I.S.I
Mud Drop	Initial Shut-in
Mud Weight1.0.a.1Viscosity50	Flow Period
Fluid Oss	Final Shut-in
Interval Tested 4771 - 4825	Surface Choke Size
Net Pay Tested	Bottom Chalca Sina J. II
Top Packer Depth	Main Hole Size
Sottom Packer Depth 4025	Rat Hole Size
Total Debtu 72.70 (DITITEE)	Feet of Rat Hole
Drill Pipe Size	Type of Test Single Straddle
Drill Collar I.D. 4 13/15" Ft. Run 267	Cushion Amount—Type
Anchor Size 1.2n / 1.2n	Rubber size811
Reccary—Total Feet	
RecoveredFeet Of	
Recovered Feet Of	
Recovered Feet Of	
RecoveredFeet Of	
, , , , , , , , , , , , , , , , , , , ,	·
Remarks	:
Tool could not be run to bo	ttom - Hung up when Bullnose at
approx. 3650: Pulled tool from	hole without testing.
	THUILDING LESLING



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	•••••	Depth148321
		Initial Hydro Mud Press
Initial Shut-in Pre	ess	Initial Shut-in Press
Initial Flow Press	••••••	Initial Flow Press
Final Flow Press	• • • • • • • • • • • • • • • • • • • •	Final Flow Press
Final Shut-in Pres	ss	Final Shut-in Press
Final Hydro Mud	Press	Final Hydro Mud Press
Temperature	I.R.	Tool Open Before I.S.IMins
Mud Drop		Initial Shut-inMins
Mud Weight10	viscosity 50	Flow PeriodMins
Fluid Loss	, 	Final Shut-inMins
		Surface Choke Size
Net Pay Tested	· · · · · · · · · · · · · · · · · · ·	Bottom Choke Size
Top Packer Depth	4771	Main Hole Size8311
ottom Packer De	pth <u>4839</u>	Rat Hole Size
Total Depth	5358 (Driller)	Feet of Rat Hole
Drill Pipe Size	½'' I.F. Wt. 16.6	Type of Test Single Straddle
Drill Collar I.D2	13/16" Ft. Run 267	Cushion Amount—Type
Anchor Size	$\frac{1}{2}$ " / $\frac{1}{4}$ "	Rubber size8"
	eet	
<u>-</u>		
Recovered	Feet Of	
Recovered	Feet Of	
Recovered	Feet Of	
đ	,	
Remarks		:
Tool co	ould not be run to	bottom. Hung up when bullnose at
approx. 3650)' pulled tool fro	om hole without testing.
-		
-		

APPENDIX 6.0...

Cable Address: "OILCO" Melbourne

N.S. Z

Registered Office:

792 Elizabeth Street, Melbourne, C.1

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

NOTE

42 PK.P.

. 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, MBLBOURNE.



Dear Sir,

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

- 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.

E. h. Mann.

C. W. MANN Drilling Manager

M Kenley of los MM.

Noted. Refer to the Aceking for onggestions re coming please OK Keff2/65 No other mell data ef. surface level, well drawn, causing proposals yes supplied.

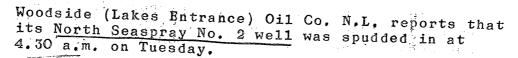
WOODSIDE (LAKES ENTRANCE) OIL COMPANY NO LIABILITY

Cable Address: "OILCO" Melbourne

February 2, 1965.

PRESS RECEASE

STOCK EXCHANGE AND PRESS RELEASE:



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

W7 Lende

Registered Office:

792 Elizabeth Street, Melbourne, C.1

NOTE

Registered Office:

TELEPHONES: 34 6093, 34 4189

Share Office:

254-260 Queen Street, Melbourne, C.1 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.

19. 1.65 //h

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

A. Doutout

N. BOUTAKOFF, D.Sc. CHIEF GEOLOGIST

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 use:

- Name proposed
 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. This well should not be drilled within 150 feet of This proposed the outer boundary of the licence area. location seems to comply with the Act.

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.R.K. Suggest to ming

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ENCLOSURES....

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

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

 ${\tt DESCRIPTION = Drill \ Stem \ Data \ and \ Report \ (enclosure}$

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

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

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

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 = 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)

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

REMARKS =

 $DATE_CREATED = 28/02/62$

DATE_RECEIVED =

 $W_NO = W487$

WELL_NAME = NORTH SEASPRAY-2 CONTRACTOR = SCHLUMBERGER

CLIENT_OP_CO = WOODSIDE (LAKES ENTRANCE)

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

REMARKS =

 $DATE_CREATED = 28/02/62$

DATE_RECEIVED =

 $W_NO = W487$

WELL_NAME = NORTH SEASPRAY-2 CONTRACTOR = SCHLUMBERGER

CLIENT_OP_CO = WOODSIDE (LAKES ENTRANCE)