

WELL SUMMARY
WOODSIDE 4 & 5
(W446-W446A)

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APPENDIX 1.0

PE904214

This is an enclosure indicator page.
The enclosure PE904214 is enclosed within the
container PE904213 at this location in this
document.

The enclosure PE904214 has the following characteristics:

- ITEM_BARCODE = PE904214
- CONTAINER_BARCODE = PE905594
 - NAME = Well Card
 - BASIN = GIPPSLAND
 - PERMIT =
 - TYPE = WELL
 - SUBTYPE = WELL_CARD
 - DESCRIPTION = Well Card Woodside 4
 - REMARKS =
- DATE_CREATED = 1/03/57
- DATE_RECEIVED =
 - W_NO = W446
 - WELL_NAME = Woodside-4
 - CONTRACTOR = Woodside LE Oil Co NL
 - CLIENT_OP_CO = Woodside LE Oil Co NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE904215

This is an enclosure indicator page.
The enclosure PE904215 is enclosed within the
container PE904213 at this location in this
document.

The enclosure PE904215 has the following characteristics:

- ITEM_BARCODE = PE904215
- CONTAINER_BARCODE = PE905594
 - NAME = well card
 - BASIN = GIPPSLAND
 - PERMIT =
 - TYPE = WELL
 - SUBTYPE = well card
- DESCRIPTION = well card Woodside 5
- REMARKS =
- DATE_CREATED = 1/05/57
- DATE_RECEIVED =
 - W_NO = W446A
 - WELL_NAME = Woodside-5
 - CONTRACTOR = Woodside LE Oil Co NL
 - CLIENT_OP_CO = Woodside LE Oil Co NL

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 2.0

Wet

4/18

MINES DEPARTMENT
VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at **WOODSIDE (LAKES ENTRANCE)** bore on

* Petroleum Prospecting Licence Number during week
* Petroleum Mineral Lease ending **13th December** 19**56**.

DEPTH	DESCRIPTION OF STRATA
Bore No. 2 - 6,800'	Drilling is proceeding satisfactorily in formation of hard sandstone with shale bands. Slight traces of an oily substance have occurred in the drilling mud at these lower depths but insufficient quantities were recovered to allow its full significance to be evaluated.
Bore No. 4 - 708'	After casing the hole to 184' drilling has been resumed and is proceeding through sand and shell formation with clay and sandstone becoming more evident.

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.)

SIGNED **Rees B. Withers**
General **Woodside (Lakes Entrance) Oil Co. N.L.** COY.
LEGAL MANAGER

Date/...../.....

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

MINES DEPARTMENT

5/18

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 WELL.

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Prospecting Licence~~
ending 21st December, 1956.

DEPTH	DESCRIPTION OF STRATA
811'-1237'	Sandy Marl.

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.)

SIGNED WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

LEGAL MANAGER Rees B. Withers COY.

Date 16/1/57

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.

6/18

MINES DEPARTMENT

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 WELL.

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Prospecting Licence~~
ending 28th December, 1956.

DEPTH	DESCRIPTION OF STRATA
1237'-1330'	Sandy Marl.

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.)

SIGNED WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

LEGAL MANAGER Rees B. Withers. COY.

Date ... 16 / ... 1 ... / 57 ..

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.

7/18

MINES DEPARTMENT

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. bore on
No. 4 WELL.

* Petroleum Prospecting Licence Number 174 during week
* ~~Record of Work at~~ ending 4th January 1957.

DEPTH	DESCRIPTION OF STRATA
1330'-1744'	Sandy Marl.

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.)

SIGNED WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

LEGAL MANAGER Rees. B. Withers. COY.

Date 16/1/57

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.

8/18

MINES DEPARTMENT

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. bore on
No. 4 WELL

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Prospecting Licence~~
ending 11th January 1957.

DEPTH	DESCRIPTION OF STRATA
1744'-1911'	Sandy Limestone.

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.)

Dr. Thomas
Lippin for Wood
18/1/57
19/1/57
23/1/57
Dr. Lippin

SIGNED WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.
LEGAL MANAGER Rees B. Withers COY.

Date 16 / 1 / 57.

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

MINES DEPARTMENT

VICTORIA

9/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number 174 during week
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
ending ... 18th. January, 19.57.

DEPTH	DESCRIPTION OF STRATA
1911'-2008'	Limestone.
2008'-2205'	Sandstone.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

SIGNED

LEGAL MANAGER Rees B. Withers COY.

Date 22 / 7 / 57. .

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

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

MINES DEPARTMENT

10/18

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number .174..... during week
~~* Petroleum Prospecting Licence~~
ending ...25th January..... 19.57.

DEPTH	DESCRIPTION OF STRATA
2205 feet.	No Drilling.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.
SIGNED

LEGAL MANAGER ...Rees.B..Withers..... COY.

Date .22../.....7/.....57..

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

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

MINES DEPARTMENT

11/18

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well

* Petroleum Prospecting Licence Number 174 during week
* ~~Petroleum Mining Lease~~
ending 1st February, 1957.

DEPTH	DESCRIPTION OF STRATA
2205'-2220'	Calcareous Sandstone.
2220'-2304'	Quartz pebbles and Coal.
2304'-2314'	Coal and Calcareous Sandstone.
2314'-2419'	Brown Coal.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

SIGNED

LEGAL MANAGER Rees B. Withers. COY.

Date 22./...7./57.

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

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

MINES DEPARTMENT

VICTORIA

12/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Prospecting Licence~~
ending 8th February 1957.

DEPTH	DESCRIPTION OF STRATA
2419 ft.	No Drilling.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

SIGNED

LEGAL MANAGER Rees. B. Withers. COY.

Date 22/7/57

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

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

MINES DEPARTMENT

VICTORIA

13/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number174..... during week
~~* Petroleum Prospecting Licence~~
ending15th February..... 19.57.

DEPTH	DESCRIPTION OF STRATA
2419 feet.	No Drilling.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.
SIGNED

LEGAL MANAGERRees.B..Withers..... COY.

Date ..22../....7/..57. .

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

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

MINES DEPARTMENT

VICTORIA

14/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Mining Licence~~
ending 22nd February, 1957.

DEPTH	DESCRIPTION OF STRATA
2419 ft.	No drilling.

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.)

Woodside (Lakes Entrance) Oil Co. N.L.
SIGNED

LEGAL MANAGER Rees B. Withers COY.

Date 22 / 7 / 57

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

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

MINES DEPARTMENT

15/18

VICTORIA

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well

* Petroleum Prospecting Licence Number ... 174 ... during week
* ~~XXXXXXXXXXXXXXXXXXXX~~
ending 1st. March 1957.

DEPTH	DESCRIPTION OF STRATA
2419'-2553'	Coal and Sand.
2553'-2694	Coal and Sand.

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.)

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.
SIGNED

LEGAL MANAGER Rees B. Withers COY.

Date ... 22 / ... 7 / ... 57 . .

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

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

MINES DEPARTMENT

VICTORIA

16/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on
No. 4 Well.

* Petroleum Prospecting Licence Number 174 during week
~~* Petroleum Mining Lease~~
ending 8th March 1957.

DEPTH	DESCRIPTION OF STRATA
2694 ft.	Total Depth.

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.)

Placed 20 ft. Cement Plug.

Hole abandoned at 2694 ft. due to loss of circulation of mud.

Drill pipe became stuck and was irretrievable to the extent of 1800 ft. compelled to abandon.

*Dr. Thomas
Copies for your file
30.7.57*

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.
SIGNED

LEGAL MANAGER Rees B. Withers COY.

Date 22/7/57

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

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

MINES DEPARTMENT

VICTORIA

17/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N. Bore on
No. 4. Well

* Petroleum Prospecting Licence Number 196 during week
* ~~Petroleum Mining Lease~~
ending 21st June, 1957.

DEPTH	DESCRIPTION OF STRATA
184' - 418'	Sand and shale. <i>Reaming</i>
418' - 900'	Sand and clay.
900' - 1091'	Coarse grained sand and quartz.
1091' - 1744'	Sandy Marl.
1744' - 2008'	Sandy limestone. <i>1911 ft. Jan 1957</i>
2008' - 2220'	Calcareous sandstone. <i>do</i>
2220' - 2304'	Quartz pebbles and coal.

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.)

SIGNED

LEGAL MANAGER Rees B. Withers COY.

Date/...../.....

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

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

MINES DEPARTMENT

VICTORIA

18/18

Mines (Petroleum) Act, 1935.
Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. on
NO. 4 WELL

* Petroleum Prospecting Licence Number 196 during week
* ~~Petroleum Mining Lease~~ ending 21st June, 1957
Continued -

*Remitt Not for this week!
But 17.57*

DEPTH	DESCRIPTION OF STRATA
2304'-2314'	Coal and Calcareous sandstone.
2314'-2419'	Brown Coal and bands of shells.
2419'-2553'	Coal and sand.
2553'-2694'	Coal and sand. .. Total Depth.

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.)

Hole abandoned at 2694 ft. due to lost circulation of mud.

Drill pipe became stuck and was irretrievable to the extent of 1800 feet Compelled to abandon.

*Dr. M...
Com...
17.57*

SIGNED WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

LEGAL MANAGER Rees B. Withers COY.

Date 26/6/57

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

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

APPENDIX 3.0

WOODSIDE NO. 4.

Lithological Discriptions
by
Well Site Geologist.

P.W. Bollen.
1956 - 1957.

WOODSIDE No. 4.

	10'	Gravels, sand and shell fragments, pebbles up to 1 cm. diam., gravel is mostly quartz, some rock fragments.
	20'	Gravel, sand and shell fragments as above.
	30'	" " " " " Pelecypoda
	35'	" " " " " some pebbles
	40'	" " " " " mostly up to 3mm. diam.
50' -	60'	" " " " " All sizes as before.
	70'	" " few " " pebbles 75% white quartz, much rounded, 7 mm. diam. average of most.
	77'	Sand and gravel, few shell fragments, small sample, <i>Much wall cake</i>
	80'	Quartz grains, rounded 1/16" Diam. approx. av.
	90'	Rounded quartz grains about 1/16" Diam. and smaller.
	100'	Rounded quartz grains 1/16" Diam.
	110'	" " " " " and smaller.
	120'	" " " sizes from 1/16" to 1/4" diam.
	130'	as for 120' but with rock fragments rounded.
	140'	as for 130'
	150'	as for 130' and shell fragments.
	160'	as for 150'
	170'	as for 160'
	180'	as for 170'
	190'	as for 180' but the size is larger and mostly small pebbles 1/16" to 3/8" Diam., little sand.
	200'	Rounded quartz pebbles and large shell fragments.
	210'	Rounded quartz and large shell fragments.
	220'	Sand grains (large) and small shell fragments.
	230'	As for 220' but larger shell fragments.
	240'	Quartz gravel, rounded shell fragments.
250' -	260'	Rounded quartz and rock gravels, shell fragments.
270' -	290'	As for 260' but larger pieces.
	300'	As for 290' but smaller size pieces.
310' -	410'	Shell fragments, few rock and sand gravel.
	420'	Rounded quartz and rock grains 1/16" Diam., few shells.
430' -	770'	Rounded quartz and rock grains, few shell fragments.
780' -	840'	Sand, few larger grains.
860' -	920'	Large rounded quartz and rock pieces, many shell fragments.

- 930' - 960' Large rounded quartz and rock pieces.
970' - 1000' Large rounded quartz and rock pieces, many shell fragments.
1010' - 1060' Large rounded quartz and rock pieces, and shell fragments.
1070' - 1300' Calcareous sandstone with Ditrāpa sp.
1310' - 1330' " " " " " and bits of calcite.
1340' Omitted *covered* by core No. 3.
1350' Large rounded quartz grains about 1mm. diam. up to 8mm. diam., few shell fragments, very little lime.
1360' - 1370' As for 1350' but with some lime and with Ditrāpa sp.
1380' - 1600' Very sandy calcareous sandstone grains $\frac{3}{4}$ -1mm. with Ditrāpa sp.
1610' - 1750' Calcareous sandstone with fossil fragments.
1760' - 2008' Calcareous sandstone with fossil fragments.
(Rounded quartz pebbles and grit present and considerable cavings from 1140' approx. as at this level formation found by drillers to be caving in hole)
2004' - 2008' (Core 5.) Operculina found.
2004' - 2008' *Core* sample calcareous sandstone with cavings as above - due to long shut-down and weak pumps.
2050' Calcareous sands with cavings as above.
2060' " " " " " "
2070' - 2208' These samples show calcareous sandstone as before and much rounded quartz, grit and pebbles. Reaming and long shut down and poor pump flush are indicative that the latter are caving. Drilling same as before.
2210' Blue calcareous sandstone, rounded quartz grits, few shell fragments. One ~~or~~ two pieces of pyrite.
2220' Rounded quartz grits, blue calc. sandstone, fossil fragments.
2230' Rounded quartz and rock fragments as grit. Blue calc. sandstone, fossil fragments.
2240¹ - 2260' Rounded quartz grits, blue calc. sandstone, pyrite, glauconite, fossil fragments.
2270' Rounded quartz and rock grits, fossil fragments, little pyrite present.

- 2280' Rounded quartz and rock grits, sand, fossil fragments, Blue calc. sandstone, pyrite and glauconite present.
- 2290' Rounded quartz and rock pebbles, grits and sands, Blue calc. sandstone.
- 2300' Rounded quartz pebbles grits and sands, Blue clay, little pyrite, fossil fragments incl. 2 Echinoid spines, Glauconite and Coal.
- 2304' - 2314' Core 6.
- 2320' Brown coal, Blue marl, rounded quartz grits.
- 2330' Rounded quartz grits, Blue marl, Brown coal, fossil fragments.
- 2340' Blue marl, rounded quartz grits, Brown coal, fossil fragments.
- 2350' Blue marl, rounded quartz grits, Brown coal, fossil fragments.
- 2357' Rounded quartz grit, Blue marl, Brown coal, fossil fragments.
- 2360' Rounded quartz grit, Blue marl, Brown coal, fossil fragments.
- 2370' Brown coal, little quartz grit, little blue marl.
- 2380' Rounded quartz grits, Blue marl, Brown coal, fossil fragments.
- 2390' Brown coal, quartz grit, fossil fragments.
- 2400' Brown coal, rounded quartz grits, fossil fragments.
- 2408' Brown coal little rounded quartz grits, few fossil fragments.
- 2419' Brown coal few rounded quartz grits, ^{few} fossil fragments.
- 2420' Equal amounts brown coal and quartz fine grained grit, little blue calcareous clay.
- 2430' 2/3 quartz fine grained grit and few pebbles 1/3 brown coal, several pieces blue calcareous clay. Occasional piece pyrite.
- 2440' Clear quartz fine grained grit, rounded little sphericity. Brown coal present, few pieces blue calcareous clay, few pieces mica.

2450' Clean quartz fine grained grit rounded, little sphericity, few pieces brown coal, very few pieces blue calcareous clay.

2460' - 2470' As for 2450'

2480' - 2500' Clean quartz fine grained grit, few pieces brown coal.

2510' - 2530' As for 2500' more brown coal.

2540' Equal amounts of brown coal and grit as above.

2550' Brown coal with little quartz grit as above.

2553' 7" Brown coal very little quartz grit as above.

2560' Brown coal very little clean quartz grit and pebbles.

2570' Brown coal very little clean quartz grit.

2580' Brown coal.

2590' Brown coal extremely few pieces clean quartz grit.

2600' Brown coal.

2610' Brown coal, little clean quartz grit and pebbles.

2620' Clean quartz grit, slightly rounded, little sphericity, very little brown coal.

2630' 60% Clean quartz grit, slightly rounded, little sphericity, 40% brown coal.

to 2690' Bottom of hole.

WOODSIDE N. 4.

Core No. 4. 1744' - 1745' Rec. 6" 6-1-57.

6" White sand, lime and glauconite seen in disinterated pieces.

Hard glauconitic arenaceous limestone.

Negative fluorescence except in calate, negative chloroform test

Core No. 5. 2004' - 2008' Rec. 3'6" 11-1-57.

Top 2'1" Calcareous sandstone, with much glauconite, glauconite as pellets and grains.

10" Arenaceous limestone with glauconite as pellets and grains, less than in calc. sandstone.

7" Foraminiferal limestone white with some glauconite, sandy Rotaline forams. 0.25 cm. diam.

Core No. 6. 2304' - 2314' Rec. 6' 31-1-57.

Top 3' Sand of $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam. 0.7 to 0.3 roundness 0.7 to 0.3 sphericity with approximately 5-10% lime, and 25% blue clay. Some shell fragments. Unconsolidated.

1'6" Sand as above ^{but} ~~let~~. grain size larger and less clay.

2" Black colour coal.

1'4" Brown coal.

Artesian water in No. 4.

No definite evidence of this was obtained, but water was noticed on many occasions. The drillers did not log any helpful information of this (900' was probably artesian).

No. 4. is 4 miles from No. 2.

In attempts to core at 1330' some uncontaminated and non drilled formation was brought out on drill take and this is sandy marl.

W 446

WOODSIDE #4

WOODSIDE WELL No. 4.

LITHOLOGIC LOG.

W 446

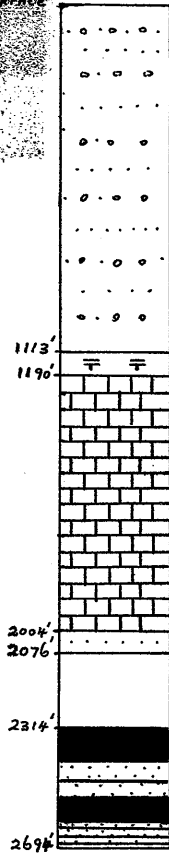


TAMBO
RIVER
FM.

GIPPSLAND
Limestone

Gas
Entrance
FM.

LATROBE
VALLEY
COAL
MEASURES.



0-1113' GRAVEL. ORANGE TINTED QUARTZ. POORLY SORTED. SHELLS ABUNDANT. GRAVELLY SAND. GRAY, WHITE, YELLOW AND BUFF. POORLY SORTED. QUARTZ, WITH SOME QUARTZITE & ROCK FRAGS. (JURASSIC MUDSTONE). WELL ROUNDED. SHELL BEDS. PREDOM. 290'-400'. 1050'-1113' SHELL BED SAND WITH PELLETS OF JURASSIC MUDSTONE.

1113'-1190' MARL. SANDY & GRAVELLY. POLYZOA & CORALS.

1190'-2076' LIMESTONE. FOSSILIFEROUS. POLYZOA, FORAMINIFERA, FISH TEETH. CALCITE VEINS. BEDDING HORIZONTAL.

2004'-2076' SANDSTONE. FINE GRAINED. GLAUCONITIC, CALCAREOUS & MICACEOUS. HORIZONTAL BEDDING. SHELS OF WORM TRACHS FILLED WITH GLAUCONITE.

2076'-2314' SECTION COULD NOT BE LOGGED DUE TO CAVING OF HOLE ABOVE.

2314'-2694' COAL. BROWN. WITH BANDS OF SAND (COARSE QUARTZ) ABUNDANT 2440'-2540' AND 2620'-2694'.

APPENDIX 4.0

WOODSIDE (LAKES ENTRANCE) OIL COMPANY.

W446

CORE RECORD

WELL No.4

18/12/56.

Core No.1

Interval cored 900ft-905ft3inch.

Recovered length Nil.

The only recovery was two pebbles of rounded quartz.

The lack of recovery was due to the soft nature of the formation.

The coring was done on the second attempt to get the core barrel to the bottom of the hole.

Owing to the soft nature of the formation and consequent lack of recovery, and due regard with the necessity of keeping the hole in good condition, I have asked that the next core be taken at a harder formation than at present when next encountered.

Should this not occur until after 1000 ft then this 1000ft core will not be taken. (I will examine cuttings at 1000ft as a circulation sample) I would like this point to be raised with Dr. Boutakoff for conformation.

P.W. Bollen
P.W. Bollen.

WOODSIDE (LAKES ENTRANCE) OIL CO.

30/12/56.

Core Report Woodside no 4
Core No. 3.

Interval Cored 1332 ft to 1341 ft.
Recovered 1 ft.

In bit- 1 inch. In core catcher 2 inches. In barrel 9 inches.
Bottom of core.

3 Inches Grey sandy marl. White quartz sand, greenish clay and some lime.

1 Inch Brown clay with some sand.

8 Inches Sandy clay. White quartz sand with little brown clay and little to no lime.

top of core.

P.W. Bollen

WOODSIDE (LAKES ENTRANCE) OIL CO.

CORE REPORT.

Woodside No 4.
Core No 4.
Interval 1744'-1745'
Recovered 6".

Length

Lithology.

6"

Hard, glauconitic limestone. On disintegration the constituents are ; White to brown rounded quartz grains, glauconite in clay size grains, lime was dissolved out .

Tests.- Negative fluorescence and negative chloroform.

Woodside (Lakes Entrance) Oil Co.

11/1/57.

Core Report.

Woodside No 4.
Core No 5.
Interval 2004'-2008'
Recovered 3'6".

W446

2004' Top.

~~2'1"~~
2'1"

Calcareous sandstone with much glauconite, glauconite as pellets and grains.

10"

Arenaceous limestone with glauconite as pellets and grains, less than calc. sandst.

7"

Foraminiferal limestone, white with some glauconite, sandy.
Rotaline Forams. .25cm. diam.

WOODSIDE (LAKES ENTRANCE) OIL CO.

CORE REPORT.

Yarram
Vic.

31/1/57.

Woodside No. 4
Core No 6.
Interval cored 2304' to 2314'.
Recovery 6'.

W446

Length	Lithology.
Top 3'	Sand of $\frac{1}{4}$ - $\frac{1}{2}$ mm diam, .7 to .3 roundness; .7-.3 sphericity, with appoximatly 5-10% lime. and 25% blue clay. Some shell fragments. Unconsolidated.
1'6"	Sand as above but grain size larger and less clay.
2"	Black coal.
1'4"	Brown coal.
Bottom.	

Chloroform and flouresence test both negative over whole core.


P.W. Bollen.

✓ P.R. gnt-

Woodside No 5

(COPY)

WOODSIDE (LAKES ENTRANCE) OIL COMPANY NO LIABILITY.

178 Victoria Parade,
East Melbourne.

3rd May, 1957.

The Secretary for Mines,
Department of Mines,
Treasury Gardens,
MELBOURNE. C.2.

Dear Sir,

We have to advise you that it is our intention to test the Mindrill 5000 drilling rig in the vicinity of our Camp at Woodside.

The hole to be drilled will only be shallow to approximately 100 ft. - 200 ft., and as stated above is only for the purpose of testing the mechanical efficiency of our rig which has been slightly modified since it was last used.

We trust that our action meets with the Honourable, the Minister for Mines' approval.

After these tests have been carried out, it is intended to move the rig to the proposed new drilling site at Hedley.

Yours faithfully,

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L.

REES B. WITHERS.
General Manager.

(COPY)

8th May, 1957.

Dear Sir,

I wish to refer to your letter of 3rd May advising that your Company proposes to test its Mindrill 5,000 drilling rig by putting down a shallow bore in the vicinity of your camp at Woodside. I have discussed this matter with the Chief Government Geologist and it is suggested that it would be in the interests of your Company to continue the proposed hole to a depth of approximately 1,360 feet to verify the occurrence of oil in your No. 2 well between 1,300 feet and 1,350 feet.

If your Company agrees to this suggestion, it is requested that a complete core be taken between 1,300 feet and 1,350 feet. In view of the fact that the formation tests carried out on this horizon in the No. 2 well were inconclusive because water had been allowed to enter the oil-bearing sands, it is desirable that cores of these sands should be obtained as such cores would yield information of considerable value in connection with the search for oil in this State.

Yours faithfully,

Minister of Mines.

Mr. R.B. Withers,
General Manager,
Woodside (Lakes Entrance) Oil Co. N.L.,
178 Victoria Parade,
East Melbourne. C.2.

Apparently nothing further was done as regards this deeper test. It is assumed that Woodside (L.E.) Oil Co N.L. went ahead with their previous programme (re letter 3 May 1957) to test the mechanical efficiency of their rig.

\$ This is a matter of my interest to me probably

I have no recollection of this letter

4.00
4.30

ENCLOSURES

PE905595

This is an enclosure indicator page.
The enclosure PE905595 is enclosed within the
container PE905594 at this location in this
document.

The enclosure PE905595 has the following characteristics:

ITEM_BARCODE = PE905595
CONTAINER_BARCODE = PE905594
NAME = Sample Core Log
BASIN = GIPPSLAND
PERMIT = PPL/174
TYPE = WELL
SUBTYPE = CORE
DESCRIPTION = Sample Core Log (from WCR) for
Woodside-4&5
REMARKS =
DATE_CREATED = 8/03/57
DATE_RECEIVED =
W_NO = W446
WELL_NAME = WOODSIDE-4&5
CONTRACTOR =
CLIENT_OP_CO = WOODSIDE (LAKES ENTRANCE) OIL COMPANY
N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE906844

This is an enclosure indicator page.
The enclosure PE906844 is enclosed within the
container PE905594 at this location in this
document.

The enclosure PE906844 has the following characteristics:

ITEM_BARCODE = PE906844
CONTAINER_BARCODE = PE905594
NAME = Geological Section
BASIN = GIPPSLAND
PERMIT = PPL/174
TYPE = WELL
SUBTYPE = CROSS_SECTION
DESCRIPTION = Geological Cross Section of Bores 1-3
Woodside Parishes of Balloong and
St.Margaret (enclosure from WCR) for
Woodside 4 & 5
REMARKS =
DATE_CREATED = 18/12/82
DATE_RECEIVED =
W_NO = W446-446A
WELL_NAME = WOODSIDE 4 & 5
CONTRACTOR =
CLIENT_OP_CO = WOODSIDE OIL CO NL

(Inserted by DNRE - Vic Govt Mines Dept)

PE906845

This is an enclosure indicator page.
The enclosure PE906845 is enclosed within the
container PE905594 at this location in this
document.

The enclosure PE906845 has the following characteristics:

ITEM_BARCODE = PE906845
CONTAINER_BARCODE = PE905594
 NAME = Log Map with Isopach Lines
 BASIN = GIPPSLAND
 PERMIT = PPL/174
 TYPE = WELL
 SUBTYPE = CONTOUR_MAP
DESCRIPTION = Log Map of Lakes Entrance Formation
 with Isopach Lines of the Glauconite
 Sand (enclosure from WCR) for Woodside
 4 & 5
REMARKS =
DATE_CREATED = 31/03/57
DATE_RECEIVED =
 W_NO = W446-446A
 WELL_NAME = WOODSIDE 4 & 5
CONTRACTOR =
CLIENT_OP_CO = WOODSIDE OIL CO NL

(Inserted by DNRE - Vic Govt Mines Dept)