Natural Resources and Environment

417 ILTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

ONSHORF



WCR W00DSIDE - 1 W441)

A JOHONE				MANDIUE	OIL U	U NU
2 Referred to	3 Date	4 Clearing Officer's Initials	1 Folio No.	2 Referred to	3 Date	4 Clearing Officer's Initials
				PPL/174		
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	1				1	

WELL SUMMARY WOODSIDE-1 (W441)

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PE906914

This is an enclosure indicator page. The enclosure PE906914 is enclosed within the container PE905576 at this location in this document.

The enclosure PE906914 has the following characteristics:

ITEM_BARCODE = PE906914
CONTAINER_BARCODE = PE905576

NAME = Well Card BASIN = GIPPSLAND

PERMIT = PPL/174

TYPE = WELL

SUBTYPE = WELL_CARD

DESCRIPTION = Well Card (from WCR) for Woodside-1

REMARKS =

 $DATE_CREATED = 8/12/55$

DATE_RECEIVED =

 $W_NO = W441$

 $WELL_NAME = WOODSIDE-1$

CONTRACTOR =

CLIENT_OP_CO = WOODSIDE (LAKES ENTRANCE) OIL CO PTY

LTD

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 2.0

Bag 1 of 11 "

MINES DEPARTMENT.

VICTORIA.

Mines (Petroleum) Act 1935. Section 45.

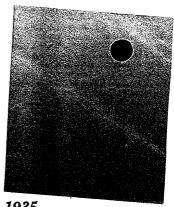
Record of W	ork at WOODSIDE No. 1 bore on	
*Petroleum Prospe *Retxoleum xMinex	ecting Licence Number 174 during week	
ending Octo	ber 7th 1955.	
DEPTH	DESCRIPTION OF STRATA	
0 - 86'5"	Firm Sand.	
86'5" - 221'6"	Clay Shells and Course Grit Sand.	
221'6" _ 513'	Sand. Blue Clay. Sandy Shale. Sand with Clay Trac	ces.
513' - 580'	Sand with streaks of Clay.	
580' - 800'	Coarse Sand with Bands of Conglomerate. Soft to m	_
	Mudstone. Mudstone Blue.	hard
800' - 860'	Mudstone and Sand. Hard Sandy Shale.	
if so, give depth and r N.B.—The Act also re 13.3/8" Cored	Charge (State in notes whether water, gas or petroleum has been met with, and nature of occurrence, also depth to which casing has been inserted and cemented. quires the Minister to be notified immediately water, gas, or petroleum is encountered.) asing to 81'6" Cemented. at 292', 490' and 800' sing to 860' Cemented.	
	Signed Rees B. Withers	
•	Legal Manager (LAKES ENTRANCE) OIL CO. N.	. L.

Date 14/10 / 55.

* Strike out words not applicable.

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

hopy for your foles.



EXTRACT FROM THE MINES (PETROLEUM) ACT 1935, AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

Section 19.—(1) The holder of a licence shall employ in drilling operations only such methods of drilling as are capable of yielding a core or other samples as is or are prescribed or is or are approved by the Minister.

- (2) In the event of water associated with a petroleum deposit being encountered in the course of drilling operations, the holder of the licence shall immediately report the same in writing to the Minister and state the steps taken to deal with it.
- (3) In the event of the continuance of drilling operations after water has been encountered as aforesaid, the holder of the licence shall shut off all water so encountered and take such other steps as may be prescribed.
- (4) In the event of traces of petroleum, including natural gas, appearing during drilling operations, the holder of the licence shall immediately report the same to the Minister, and shall carry out such operations to test the extent and value of the occurrence of such petroleum as the Minister by notice in writing directs.
- (5) In the event of preliminary tests indicating the probability of payable petroleum, the holder of the licence shall—
 - (a) immediately report thereon to the Minister in writing; and
 - (b) carry out thereafter such operations as may be necessary to test the value of the occurrence of such petroleum as may be approved by the Minister.

Section 45.—Every licensee and lessee shall keep a log, in the form prescribed by the Minister, of all the wells drilled by him showing the strata and character of the ground passed through by the drill, which log or a copy thereof shall from time to time be furnished to the Minister upon demand.

Section 48.—Every licensee and every lessee, unless in any case wholly or partially excused from so doing by the Minister, shall properly case each well with casing in accordance with the best approved methods, landing and effectually cementing one or more strings of the casing in clay or other water-impervious strata or formation between all water-bearing sands or strata and any underlying petroleum deposit, and generally shall take all such steps as are reasonably necessary for effectually shutting off all water overlying and underlying the petroleum deposits, and for effectually preventing any water from penetrating such petroleum deposits.

EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6).—Every licensee shall—

(a) retain for a period of not less than twelve months all cores obtained by drilling and representative samples of other specimens obtained from the land and, when so required by the Minister, forward the same to the Minister.

VICTORIA.

Mines (Petroleum) Act 1935.
Section 45.



Petroleum Mineral	ting Licence Number 174 during week
i o i r	10 **
endingOctober	14th, 19.55.
DEPTH	DESCRIPTION OF STRATA
3601 - 9601	Hard Sandy Shale with stringers of brown sand.
960' - 1030'	Hard Sandy Shale.
1030' - 1126'	Sandstone with shell and grit with some clay.
1	
f so, give depth and nat	Charge (State in notes whether water, gas or petroleum has been met with, and ure of occurrence, also depth to which casing has been inserted and cemented as the Ministry to be satisfied in which the matrix of th
f so, give depth and nat N.B.—The Act also requ	ure of occurrence, also depth to which casing has been inserted and cemented irres the Minister to be notified immediately water, gas, or petroleum is encountered.)
f so, give depth and nat N.B.—The Act also requ ores taken at 92	ure of occurrence, also depth to which casing has been inserted and cemented irres the Minister to be notified immediately water, gas, or petroleum is encountered.) O†, 940†, 1010† and 1105 ft.
f so, give depth and nat N.B.—The Act also requ ores taken at 92	ure of occurrence, also depth to which casing has been inserted and cemented irres the Minister to be notified immediately water, gas, or petroleum is encountered.)
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* Strike out words not applicable.

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

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- (4) In the event of traces of petroleum, including natural gas, appearing during drilling operations, the holder of the licence shall immediately report the same to the Minister, and shall carry out such operations to test the extent and value of the occurrence of such petroleum as the Minister by notice in writing directs.
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VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Wo	rk at WOODSIDE (LAKES ENTRANCE) OLL CO bore on N.L. No. 1.
* Petroleum Pr * Bennoneum Mi	ospecting Licence Number 174 during week
endingO	ctaber 22nd 19.55.
DEPTH	DESCRIPTION OF STRATA
1126' - 1398!	Soft Sandstone.
1398' - 1577'	11 11
1577' - 1705'	" 'Limestone.
ana anana ang ang ang ang ang ang ang an	
petroleum ha	ller in Charge (State in notes whether water, gas or as been met with, and, if so, give depth and nature of also depth to which casing has been inserted and
•	
	WOODSIDE (LAKES ENTRANCE) OIL CO. N. I
gmas.	LEGAL MANAGER Rees. B. Withers COV.

Date .7.../.11../..55.

 $\underline{\text{N}_{r}B}$. - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record o	f Work	woodside (Lakes Entrance) Oil CO. N.L. No. 1. at bore on
* Petroleu * * *********************************	m Prosp xx XXXXX	pecting Licence Number174 during week
ending .	. Qetob	ęr, 29th., 19.55.
DEPTH		DESCRIPTION OF STRATA
1705' -	1879	Limestone with grit.
1879'- 2	225'	Limestone with dark green stringers.
2225' - 2	347	Hard Green Brown Shale and Firm Dry Blue Mudstone.
The state of the s		
	- 32.85	
netroler	ım has i	er in Charge (State in notes whether water, gas or been met with, and, if so, give depth and nature of so depth to which casing has been inserted and
	•	
	was a second of the second	

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

g.11.5's Date .7.../...11/...55.

 $\underline{\text{N.B.}}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Wo	WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. No. 1. rk at bore on
* Petroleum Pr ************************************	ospecting Licence Number during week
ending5	th November 2000 1955.
DEPTH	DESCRIPTION OF STRATA
2347' - 2529'	Sandy Shale and Soft Mudstone. 9 900 with petroliferous odor. (see weln dat.)
2529' - 2559'	Hard Green Shale.
2559' - 3000'	Brown Coal turning to firm Black Coal.
3000' - 3202'	Silica Quartz with veins of Black Coal.
3202' - 3231'	White clay and sand.
petroleum ha	ller in Charge (State in notes whether water, gas or s been met with, and, if so, give depth and nature of also depth to which casing has been inserted and
Indications	of gas with a distinct petroliferous odour were
encountered	at 2539 feet.
	WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. SIGNED
	LEGAL MANAGER . Rees B. Withers COY.
tout.	11 (55

Mohen tout.

Date ...10./..11./.55....

 $\underline{\text{N.B.}}$ - 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.

Mighanas, John John Gile . A. 11.55

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. bore on

* Petroleum Prospecting Licence * Petroleum Minoral Lease Number during week ending .l.th. November....... 1955.

DEPTH	DESCRIPTION OF STRATA
<u> 3231' - 3348'</u>	Quartz with traces of coal.
<u> 3348' - 3542'</u>	Quarts Hard Shale and Shells.
<u> 3542' - 3607'</u> ,	Sandstone and hard shale formation impregnated with
Manager and the second	Iron Pyrites.
<u> 3607' - 3673'</u>	Hard Green 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.)

Shor	v of	Gas	at 36	550 fe	et.			
	······································							
-								

Date ..25./..11./..55. .

 $\underline{\text{N}}_{\circ}\underline{\text{B}}_{\circ}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. N.L bore on No. 1

* Petroleum Prospecting Licence * Petroleum Minoral Lease Number during week

ending .18th November..... 19.55

DEPTH	DESCRIPTION OF STRATA
3 <u>673' - 3728'</u> 3 <u>728' - 3960'</u> 3 <u>960' - 4063'</u>	Medium hard chocolate colored sandstone with blue concretions. Sandy shale various colors Blue, White, Green, Mustard, Brown. Sticky Shale to Hard Shale.
4 <u>063' - 4165'</u>	Hard Green Sand to Shale with Sand Stone.

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.)

Mudstream'carrying	quite a lot of color and	definite	showing of	black
f <u>luid on mud pit.</u>	Peculiar formation 3720'	- 3728'.	Definite	ring of
color in test tube	with ether.			-

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

LEGAL MANAGER Rees. B. Withers. COY.

Date .25./.11/.55.

 $\underline{\text{N.B.}}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL-CO. No. lbore on

DEPTH	DESCRIPTION OF STRATA
4165' - 4265'	Sandy Shale.
4265' - 4419'	Sandy Shale and Green Sandstone.
<u>4419' - 4636'</u>	Sandy Shalewith hard bands blue shale.
<u>4636' - 4814'</u>	Soft to hard sandstone.
4814' - 4933'	Soft sandstone with hard streaks.
a de la companya de	

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 ...30 / .11 / .55

 $\underline{\text{N}}_{\circ}\underline{\text{B}}_{\circ}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTORIA

Mines (Petroleum) Act, 1935. Section 45.

WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. No. 1. Record of Work at bore on * Petroleum Prospecting Licence Number during week ending 2nd December. 1955. DEPTH DESCRIPTION OF STRATA 4<u>933' - 5099'</u> Sandstone and shale. 5099! - 5234! Soft sandstone and shale with hard streaks of black coal. Some quartz pebbles. Mudstone with hard green sandstone and hard blue shale. 5234! - 5336! 5336' **-** 5447' Sandy and hard shale with hard shell. 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 .. (Sgd.) . Rees B. Withers .. COY.

Date ..13./..12./..55. .

 $\underline{\text{N.B.}}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

VICTÒRIA

Mines (Petroleum) Act, 1935. Section 45.

Record of Wo	WOODSIDE (LAKES ENTRANCE) OIL CO. N.L. No. 1 ork at bore on
* Petroleum Pr *xRæknækænnæki	rospecting Licence Number 174 during week
ending	9th. December 1955.
DEPTH	DESCRIPTION OF STRATA
_5447 ' - 5501'	Sandy shale and hard green shale.
<u> 5501' - 5633'</u>	Sandstone and sandy shale.
5633! - 5783!	
<u> 5783 ' - 5871'</u>	Sandstone, sand and hard sandy shale.
·	
9	
petroleum ha	ller in Charge (State in notes whether water, gas or s been met with, and, if so, give depth and nature of also depth to which casing has been inserted and
. 5830 feet -	show of oil on mud stream, no gas.
	WOODSIDE (LAKES ENTRANCE) OIL CO. N.

Date .13../.12./.55...

 $\underline{\text{N.B.}}$ - The Act also requires the Minister to be notified immediately water, gas or petroleum is encountered.

LEGAL MANAGER . (Sgd.) Rees B. Withers .. COY.

MINES DEPARTMENT Victoria.

Mines (Petroleum) Act 1935, Section 45.

Record of Work at WOODSIDE (LAKES ENTRANCE) OIL CO. No. 1 bore on Petroleum Prospecting Licence Number 174 during week ending

DEPTH	DESCRIPTION OF STRATA	
5871' - 5950' 5950' - 5975'	Coarse Sand showing white pebbles and Hard black micacious shale with slight of lime.	
5 975 ' - 6008 '	Shale.	
	Final Depth 6008 feet.	1

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 demented.

N.B. - The Act also requires the Minister to be notified immediately near ass or petroleum is encountered.)

water, gas, or petroleum is encountered.)

Evidence of drilling into a 70 degree fault at 5975 ft.

Cement Plug in hole 60 ft. (900' - 840' level).

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

Legal Manager REES B. WITHERS Coy.

Date 16/1/56.

APPENDIX 3.0

POST - MESOZOIC STRATIGRAPHY IN WOODSIDE NO. 1 WELL.

Location: Lat. 3835'34"5, long. 146°56'10" E, Panish of Balloong. Elevation: 20ft. a.s.l (ground), 30 ft. a.s.l. (K.B.)
T.D. 5849 ft. (dr.), 5848 ft. (Schl.).
Data Commenced: 1955.
LITHOLOGIC LOG. [Based logs on dvillers log.
0 - 86'5": "fran sand" (D.L.)*
0 - 86'5": "from sand" (D.L.)* 86'5"- 221'6": "Clay, shello & coarse gritty sand" (D.L.)
280 - 340: greenish sandy mark (clayey stight), quite shelly
● 500 - 740 : losse, coarse sand agravel.
740 - 9,0: greenish grey shelly calcareous sand, slightly glanconstic
■ 500 - 740 : loose coarse sand agravel. 740 - 910 : greenish grey shelly calcareous sand, slightly glanconstice that spechs of black carbonaceous material.
910 - 1010 Shelly glauconitic sandy mark.
1010 - 1410 yellow sandy limestone and minor bedo of friable yellow calcareous sand, Ditrupa + bryozoa
1410 - 1675 : yellowish white limestone + light grey marly limestone
both bryozoal, and slightly sandy.
1675 -1715 green bruggood made timestone
1715 - 1910 yellowish grey limestone and light grey marly
Jumps ne
1995 - 2005: yellowish white soundy limedone with common
1995 - 2005 : yellowish white soundy limedone with common
Operculina.
2005 - 2210 : grey marly limestone anellow grey timestone; beds
as for \$ 1995 - 2005ft, at 2045-55ft & 2155-65ft.
2210 - 2330: grey clayey mark and hard horizons of grey
marly unedone.
2330 - 2410 : yellowish grey puggy foraminiferal marl, partially
a Caucondic and mythic
2410 - 2577: It grey glauconitic sandy marly limestone, particularly
glanconitic, pyritic esandy towards the base; thin
bed of brown sucrosse dolonite at approx.
255 of t.

brown coal, with minor brown ligneous clay coarse sand, with brown coal chips. 2577 -2830 2830 - 28402840 - 2875 brown coal. coarse gravelly sand (bose) with minor coal beds largely brown coal. 2875 - 2920 2920 - 2940 coarse gravelly sand. 2940 - 2970 largely brown coal 2970 -2995 gravelly sand with minor coal. 2995 -3015 grædlig road largely brown coal strawn ligneous clay. 3015 - 3035 gravelly sand, with minor coal largely brown coal. 3035 - 3055 3055 - 3075 gravelly sand with minor coal beds (eq. 3280-90ft.)
hard, partially weathered, red basalt.
hard adense grey basalt, partially reddish.
red brown clay (or 'earth') 3075 -3505 3505 - 3590 0590 - 3675 3675 - 3745fresh basalt 3745 - 3780 loose coarse sand, partially gravely.

tight brown-grey clay, with minor coal beds. 3780 - 3840 : 3840 - 3910 gravelly sand. 3910 - 3935 : grey mudotine, etc. 3935 —

The majority of these beels, if not all belong to equivalents of the Bushy Park Beds. It is very difficult to say whether or not the marine facios (represented by samples from 280 to 340ft) is a Jemmys Pt. Formation equivalent. It descript is definitely either Kalimian or younger. Microfaunas include Ammonia beccarii, and Elphidum discoidale, also miliolido — all typical shellow water species. Traces of Nonion victoriense appear also, while pelagico (Globigerina sp.) are rare. The facina here also contains molluscan fragmento, ostracodo, and rare echinoid spines.

740-1010 feet: Jemmy's Pt. Tambo River Formation.

Marine leeds below 740 ft. contain the highest occurrences
of Ditrupa slargeozoa (typically Cellaria sp.) are typical of the
youngest marine beds in the areas to the east (Seaspray, Well. Pk_etc). Ammonia beccavii is not recognised, but Nomioni victoriense is quite common together with Astronomion australe, Cancris auriculus, Cibicides eygnorum, Elphidumi spp — including E. imperatrix & E. pseudonodosum, Gruttulina regina, Valvulineria kaliminensis, also miliolido + lagenido. Pelagico (eg. G. bulloides gp.) are rare. Remains of mollusca, ostracodo sedinicido are noted, Between 910 and 1050 feet, a poor microfauna contamo Elphidum spp. — including E-parri, Nomion victoriense, Notorotalia Clathrata and lageneds. Mollusca, Ditrupa and bryozoa occur also, but none of them are common. This interval could tentatively be referred to as the Tambo River Formation, and that above the Jemmy's Point Formation 1010 - 2330 feet: Gippsland Limestone.

De approximate subdivision is as follows: 1010 — 1675 ft. : Bairnsdalian Balcombian. The sandy limestones and calcareous sands contain limited Pricuofarmas which are rather worn. Operculina victoriensis Elphiduin pari occurs also. Amphistequia lessonii was recorded in a cores at \$ 1330-48 ft a 1405 ft, best does not become common until below the latter. 1675 - 1715 ft. : Bates fordiani. Samples contain <u>Lepidocyclina howchini</u>, common <u>Amphistegina</u> lessonii, minoi Oporculina victoriensis, and occasional Globigarinoides bispherica and Globigerina bulloides go.

The Lepidocycline beds are thus particularly restricted here. The microfaunas in this interval contain Astronomian centroplax (ibricides perforetus, and limited pelagics, slightly more common towards the base - which include Globigerina apertura + G. woodi

2330 - 2577 feet: Lakes Entrance Formation. Microfunas in the upper puggy marks represent F.U.S., and consist of include Elphidum crespinae, Gyroidina zedandia, and Globigerina ampliapertura enapertura.

The basal cores of mark, which are closely associated with the underlying coal measures, contain F.U.4 species — Globigerina ampliagentura ampliapentura as well as G. ampl. enapentura, Globigenna linapenta (or G. of inapenta), Globorotalia testarigosa, Spirobolivina emmenderfesi (syn. <u>Bolwina crespinse</u>) etc. 1577 — 3935 feet: Latrobe Valley Coal Measures
The whole seguence appear to be non-marine The interval from 2579 to 3505 ft. represents the Upper Latrobe Valley (M. From 3505 to 3780ft is the Thorpdale Volcanics, and from 3780 to 3935 ft the Childers Finn, with of the Laver Latrobe Valley CM. Below 3935 feet: Strozdecki Group. A non-marine sequence of Mesozoic age. CHARACTERISTICS OF THE LAKES ENTRANCE FORMATION. The top of the formation was picked on: is lithology ii microfaunas although the definition was not outstanding in any of them. therefoliated trade more crystallie ments; contain grains of quartz and of glanconite. These mans (or marly inestones) are softer and more clayey towards the top, the glauconite content is vather low. The mask' become more crystalline (and probably dolomitic) howawards of the glauconite content increases as does the quarty content.

At approx. 2480 feet there appears a narrow bed on the e-log which corresponds to a sample containing a very high proportion of coarse quarty sand, many of the grains having a greenish tings

WOODSIDE No. (

* sand residue: quanty, qn. Am. mica, glave. (uncomm)

(sub.ang.

fino)

(? feb per). coloured quo. (? febper).

shell frags. clear pinkish ostracodo (singte valve), ech. spines ("*), forams. (vel. common). 820 * 79 ga. clayey sand + rand residue, mic. quentz (uncommon), glorue, carb,, shell chips.

mellusca - gestropodo (typ-Tur) spel. frags (eg. ? Ostraeu)

Ditrupa, Cellaria, forams costracado. * nesidue mostly shell material, minor glanc equantz. * bryozoa typically 'urchin-sheped; mallusca more varied Dibrupa (not abundant), foranne oxtracodo. 860: mostly aganic debris, minor fine sub-engular sand surger foramo, Ditrupa, bryozoa (rare) shell frags ell nother morn. 926: predominantly sand: guartz, also bu. gus (? felsp), uncomm.
gn. mica, glance, vilnerite.

*Ditrupar common, virt. the only fossil type. 1105 as abone but collète cement v. dominant. so Dibrupa, also minor bryozoa, Aperculina (etc.) 1290: Santo calcité cement : foramo crotrac. Ditrupe, ech. spines etc. 1330-4-8 minor quartz sand, mostly sorganic fragments.

* bryozog, also forams, ech spomes 1467:

LORES

1527: Early 1st., sand mic. 93., glave, br. 900 (-s.sl. yellowrish doloner)

reforma poor, appears restricted to Elph, parm + Ditrupa frags.

1645. white randy 1st., sand vice speeks of glave., gn. mica, illmenite.

Faura poor, only few molluscen fragments

1695 : grey marl/marly let.

* pred. organic fragmento (acley), traces of glave.

* pryozoa, Amphistegina, etc.

1705 : as above, bryozoa, quite Common.

1905-15: rexyd. Imedione

minor sand (inc. glanc.), most Irday, calcite worg.

fragments

tryozoa (not abundant).

228: rex^{5d} Imédine ** abundant sparry calcile organie fragments worn 4

** bryozoa (not doundant).

2310 (cuttings): qu. marl, disseminated purite common, occasional harden preserved brigozoa. poorly calcide)

preserved brigozoa.



WOODSIDE WELL No 1

STRATIGRAPHIC COLUMN

Except where otherwise indicated, screen samples. Cores and bit samples are mentioned as such.

	280 - 285. 285 - 300.	Sandy clay with shell fragments Quartz gravel shell beds
	300 . 300 - 31 9.	<u>Bit sample: Micaceous sandy clay.</u>
		Top: Dark gray, micaceous, sandy clay. Middle: Massive sandy clay with well-preserved
		gastropods. Bottom: Silt and sandy silt with many shells.
	319-340.	Shell bed.
	500-530.	Coarse, shelly quartz sand.
	600-620.	fine quartz gravel. fine, shelly quartz gravel.
	700-740. 740-770.	very fine gravel with large shells.
	770-780.	fine gravel with shell fragments.
\	789.	coarse, sandy shell bed.
	795.	clay with fewer shell fragments.
	800.	fine quartz gravel with some shells.
	800-820.	Core Top: Fine quartz sand. Some gravel grains and shell
		top: Fine quartz sam. Some graver grains and sherr
		Bottom: Fine silty sand with embedded shell fragments
	820.	Coarse quartz sand with Turritella.
س	825.	gravel with rolled shells.
	835.	Shells, quartz gravel, clay pebbles.
	840-860.	Core Fine silty sand . Shell fragments at the base.
**	865. 900 - 920.	shell bed with quartz gravel. Core Carbonaceous silty sand.
	940-960.	Core - Fine silty sand with scaphopods.
	965.	white sandy marl.
	970.	Red and white well rolled quartz grains embedded
	ers adm des	in marly cement: sandy marl.
	980.	Friable marly limestone and marl.
	990. 1000-1002.	Sandy glauconitic limestone with <u>Ditrupa</u> . Calcareous sand. Some grains large, embedded in marl
	1010-1030.	Core Very calcareous yellow sand.
	1040-1080.	Ditrupa and polyzoal marl.
	1080-1100.	Ditrupa marl mixed with well rolled sand grains.
	1105-1126.	CoreCalcareous yellow quartz sand. Some large, wel rolled grai
	1126.	Ditrupa marl mixed with well rolled sand grains.
	1135-1185.	Ditrupa marl.
	1195-1225.	Richly fossiliferous Ditrupa marl.
		Richly fossiliferous Ditrupa marl.
	126 5-1 320.	highly foraminiferal polyzoal marl. <u>Bit sample: Ditrupa marl with scattered sand grains.</u>
	1304-1307.	Core.
		Top: Calcareous yellow quartz sand with marl cement
		and scattered polyzoa.
۲	1010 1000	Bottom: medium to coarse calcareous quartz sand.
	1310-1323.	<u>Core</u> Top: Fine-grained quartz sand.
بر <u>م</u>		Middle: Fine-grained yellow calcareous sand.
	7000	Bottom: Medium-grained, calcareous yellow sand.
	1323-13 25.	Bottom: Medium-grained, calcareous yellow sand. Mixture of polyzoa and red sand (contaminated)
	1325-1335. 1340-1348.	Core - Very fine marly yellow sand. Core - Yellow, very marly quartz sand.
	1358-1390.	Polyzoal marl.
	1390-1398.	CoreGrayish-yellow sandy marl.
	1407.	Bit sample: Grayish-green polyzoal marl (contaminat
		A S- one borywar mair (contaminat

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1400-1408.
                                    Core .-
                                    Top: Greenish-gray polyzoal marl.
                                    middle: yellowish-gray polyzoal marl.
                                   bottom: Gray polyzoal marl.
Soft polyzoal limestone or marl.
    1410.
                                   Marly polyzoal limestone.
Soft, marly polyzoal limestone.
Foraminiferal and polyzoal marl & marly lstone.
Fine-grained fossiliferous polyzoal marl.
    1420.
    1430.
    1440.
   1450.
                                   Core. - Top: Ditrupa filled yellow friable marlstone,
   1450-1467.
                                   Middle: Yellow polyzoal marl passing down into Gray, fossiliferous polyzoal limestone. Then,
                                   into yellow <u>Ditrup</u>a & polyzoal limestone.
                                   Bottom: Fossiliferous greenish-gray soft marly polyzoal limestone with, at the base of the
                                   core, some very fine complete Polyzoa of several species in a marly, green limestone, becoming yellowish towards the bottom.
   1480.
                                   Fine-grained polyzoal limestone.
   1490.
                                   Fossiliferous polyzoal limestone or marl.
                                   Very fossiliferous polyz. letone or marl. Fine-grained fossiliferous polyzoal marl. Core. Fine-grained polyzoal white marl. Sandy.
   1500.
   1517.
   1617-1537.
   1587.
                                   White polyzoal limestone (contaminated)
                                   Highly fossiliferous coarse, white polyz. 1st.
   1545.
   1655.
                                   As above.
   1565.
                                   As above.
   1575.
                                   Fine-grained white polyzoal limestone.
   1577-1685.
                                   Friable, marly polyzoal limestone, white to greenish-gray, passing um downward into yellow friable polyzoal marlstone and marl.
   1585-1590.
                                   White polyzoel marlstone (contaminated)
   1600-1610.
                                   As above.
   1620-1630.
                                  As above.
   1635.
                                   White polyzoal limestone.
   1640.
                                  As above (contaminated with red sand)
   1643-1650.
                                  Core .- Friable, white marly limestone.
   1650-1660.
                                  Coarse, white polyzoal limestone (contaminated)
   1670-1680.
                                  As above.
   1695-1705.
                                  Core -- Coarse, gray polyzoal limestone containing in the middle part well-preserved polyzoa
                                  and bottoming in hard, fine-grained marlstone.
   1715.
                                  Very fossiliferous, coarse, polyzoal limest.
  1725.
                                  Coarse polyzoal limestone.
  1735.
                                  Coarse, cherty polyzoal limestone (contaminated)
  1745.
                                  As above.
  1755.
                                  Coarse polyzoal limestone.
  1765-75.
                                  As above.
  1785.
                                  As above.
  1795.
                                  Polyzoal 1st with occasional dark inclusions.
  1805.
                                  As above with many such inclusions.
  1815. Foraminiferal polyzoal limestone.
  1825.
                                  Coarse foraminiferal polyzoal lstone.
  1835.
                                  As above.
  1845.
                                  As above.
  1855.
                                  As above.
  1861.
                                  Mixture of red sand with rolled grains of
                                  polyzosl limestone.
Coarse polyzoal limestone.
. 1875.
  1890.
                                  Soft polyzoal maristone.
  1900.
                                  White markstone or mark.
  1905-1915.
                                  Core.-
                                  Top: Soft polyzoal limestone paseing down to
                                        marlstone.
                                 Middle: Rather soft white polyzoal marlstone
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interbedded with white marl.

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1905-1915 (cont'd)
                                   Bottom: White polyzoal marl and soft marlst.
  1925.
                                   White marl.
  1935.
                                  Polyzoal limestone.
  1945.
                                  Folyzoal marl ( Operculina ?)
  1955.
                                  Polyzoal limestone.
  1965-75
                                  As above.
  1985.
                                  Marl.
  1995.
                                  Foraminiferal limestone (Operculina ?)
 2005.
                                  Polyzoal limestone.
 2015.
                                  Marl.
 2025.
                                  Polyzoal limestone.
 2035.
                                  As above.
 2045-2055.
                                  As above.
 2065-2085.
                                  As above.
 2095.
                                  Folyzoal marl.
 2105.
                                  Finely glauconitic polyzoal 1st. Polyzoal limestone.
 2116.
 2125.
                                  As above.
 2135-2165.
                                  As above.
 2175.
                                  White marl.
 2185.
                                  Polyzoal limestone.
 2195,-2205.
                                  Possiliferous marly limestone.
 2215.
                                  Very white marl.
 2225-2228.
                                  Core .- Fine-grained polyzoal limestone with
                                  bands of gray marl. Whitish-gray marl.
 2230.
 2240.
                                  Crystalline white limestone.
2250.
                                  White limestone.
2260.
                                  Possiliferous white crystalline limestone.
2270.
                                  White marl.
2280.
                                 Grayish-white marl.
2290-2300.
                                  White marl.
2310. Gray maristone.
2320.
                                 Gray Marl.
2330.
                                 Graish-white marl.
2340.
                                 Cray marlstone. Slightly glauconitic gray marl.
2350.
2360.
                                 Whitish-gray marl.
2370.
                                 white mark with rolled quartz grains.
2380-2390.
                                 Glauconitic foraminiferal marl.
2400-2450.
                                 White marl.
2460-2480.
                                 Glauconitic foraminiferal merl.
2490-2510.
                                 Glauconitic foraminiferal marl with occasional
                                 grains of quartz sand.
Highly glauconitic marl; some calcite.
2520-2556.
                                Fetroliferous Core.-
Top: Brown-stained, strongly oil smelling petroliferous marl. The marl is green, very glauconitic but with no permeability and low porosity. Biffuse oil stains. Bottom: Core displays contact of marine, oil stained and glauconitic marl above, and brown coal below. The contact shows the marl penetrating downward into a system of sun-cracked
2555-2577.
                                ting downward into a system of sun-cracked
                                crevices in the coal which the marl fills.
                                This contact denotes exposure of coal prior
                                to marine transgression.
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Below this level a <u>lag</u> becomes apparent between screen sample depths as indicated by drilling pipe lengths and depths as witnessed by the electric log. From 5 feet, this lag progressively increases with depth to over 35 feet.

Drill pipe figures continue to be shown in the left column . Where possible, corrections to true depth are given in the right-hand column and intermediate depths should be corrected accordingly from these figures.

•		,
(2580-2590)		Oil-stained and crude smelling brown coal.
(2613)		100% brown coal.
		and the second s
(2520)		As above.
(2639-2840)	and the same of the same	As above.
(2860)	2835	50% brown coal and 50% very coarse,
		gravelly, conglomeratic sand (pebbies
		up to a inch)
(2870)	2855	100% brown coal.
	0000	
(2830)		100% brown coal.
(2830)		100% brown coal.
(2900-2920)	2885-2905	50/50 brown coal and very coarse, cong-
* ***		lomeratic sand(pebbles up to 2 inch).
(2930-2940)		90% medium-coarse quartz gravelly sand.
(2950-2960)		
(S000-S900)		good brown coal in very large chips and
		a very coarse gravelly sand.
(2970)		95% very coarse grawelly sand of milky
Separate Sep		quartz († in.pebbles)& 5% brown coal.
(2980)		Marie and There were very and very all the prince of the p
(2300)		medium-coarse quartz gravelly sand and
an an an an	1 1 time	a brown coal.
(2990)	2975	85% pure brown coal; gravel up to g in.
(3000-3010)	COLUMN TOPE . WITH	50/50 brown coal & coarse gravel.
(3020)		
	•	Coarse gravelly quartz sand. Coal traces.
(3030)		50/50 coal & medium-coarse qu. sand.
(3050-3060)		50/50 br. coal and gravel of quartz &
The control of the co		metamorphic rocks.
(3070-3090)	3040-3060	99% brown coal. Isolated quartz grains.
		22% Drown cours regrande dours Provide
(3100-3150)	3070-3125	50/50 mixture of medium (in.) sand &
		very coarse (2-2 in.) peobles wa. quartz.
3160-3210)		Very coarse gravelly sand. Coal traces.
(3220 - 32 90)		70% coarse sand (2 in pebbles) & 30% coal.
		IVA CVERS BEING 12 AM DEVENDO, O DVA DVERS
(3230-3290)		Coarse gravelly quartz sand with some
		metam. rock pebbles and traces of coal.
(3400-3410)	3380- 3390	Appreciable amount of brown coal with
Section and the section of the secti	The terms of the control of	coarse (gin.) pebbles of milky quartz.
/0400_0400\		
(3420-3480)		Poorly graded & somewhat finer qu. sand.
(3490-3540)		Coarse, gravelly quartz sand(g-2).
(3550 -3590)		g sample: mixture purple basalt and brown
THE CONTRACT OF THE CONTRACT O		coal; other half: milky qu. gravel(zin.)
(3600-3630)	3570-3600	Unweathered basalt with about 30% brown
(3000-8690)	001V-000V	
and the same was the same.	والمعن والارواق والاست المائد والمستحد المائد	coal and 60% coarse sand for the rest.
<u> 3602-3607</u>	<u> 3602-3607</u>	<u>Core Dense blue hasalt.</u>
3650)	3630	Wine-coloured to fresh blue basalt.
	202V	
(RETE)	3000	
(3675)	3660	Purple to wine coloured basalt.
(3680)	3630	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b.
(3680) (3690)	3600	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt.
(3680)	3630	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt.
(3680) (3690) (3695)	3680	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets.
(3680) (3690)	9680	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured <u>red earth</u> with green pellets. Very red earth with chips of weathered b.:
(3680) (3690) (3695) (3695-3700)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic s o i l.
(3680) (3690) (3695) (3695-3700)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic s o i l. Scarlet basaltic soil.chips of weath. bas.
(3680) (3690) (3695) (3695-3700)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic s o i l.
(3680) (3690) (3695) (3695-3700) (3710) (3720)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt.
(3680) (3690) (3695) (3695-3700)	3720 <u>-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core
(3680) (3690) (3695) (3695-3700) (3710) (3720)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil.
(3680) (3690) (3695) (3695-3700) (3710) (3720)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading up-
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic s o i l. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading up- ward into red soil.
(3680) (3690) (3695) (3695-3700) (3710) (3720)		Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic s o i l. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading up- ward into red soil.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728.	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered. Westly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & gravel.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750) (3760)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core. Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750) (3760) (3770)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core. Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt. As above.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3760) (3760) (3770) (3780)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unveath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core. Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3760) (3760) (3770) (3780)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic so il. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt. As above. Fresh Older Basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750) (3760) (3770) (3780) (3790)	3720-3728 3 7 28.	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core. Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt. As above. Fresh Older Basalt.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750) (3760) (3770) (3780) (3790) (3800)	<u>3720-3728</u>	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic so il. Scarlet basaltic soil.chips of weath. bas. Red earth with chips of weathered basalt. Core Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered rock. Very weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt. As above. Fresh Older Basalt. As above. Pea-sized or smaller Qu. and Met. Rock snd.
(3680) (3690) (3695) (3695-3700) (3710) (3720) 3720-3728 3728. (3730) (3740) (3750) (3760) (3770) (3780) (3790)	3720-3728 3 7 28.	Purple to wine coloured basalt. Blue basalt with chips of wine coloured b. Mixture of weathered & unweath. basalt. Wine-coloured red earth with green pellets. Very red earth with chips of weathered b.: Weathered basaltic soil chips of weath. bas. Red earth with chips of weathered basalt. Core. Top: Pure red clay soil. bottom: Very weathered basalt grading upward into red soil. Very weathered basalt with some chips of little weathered basalt with some chips of little weathered, wine-coloured basalt. Mostly brown coal. About one third purple weathered basalt. Mostly basalt as above. Some coal & grayel. Weathered purple basalt. As above. Fresh Older Basalt.

WOODSIDE No 1. Coarse, gray-green arkose as above. Coarse to med- grained felsp. sestone. (4470)(4480)(4490 - 4510)As above. (4580 - 4540)As above. As above. (4550)Medium to fine-grained feldspethic sdst. Fine-grained feldspathic sandstone. (4600 - 4630)(4640 - 4660)(4370 - 4690)4650-4660 Mudstone with some fine-gr. sest. and black ecal. (4700-4710)Very fine-grained sdatone with green vein-calcite. Mudstone with cracks filled with pink calcite. 75% very fine-gr. scst., 25% mudstone. (4710-4720)Coarse and med -gr. arkose with veins (4730-4740)of pink calcite. 50/50 sest. & mudst. with black coal. 4750-4770) (4780 - 4790)As above. (4600 - 4825)As above. (4830 - 4850)As above. (4860-4880)50/50 sdst. & mudst. with black coal. (4860-4880)As above with black coal and one large chip of older basalt. Wed.-gr. gray feldsp. sdst. & black coal. (4890 - 4900)(4905-4910)As above. No coal. (4915 - 4933)4916-4933 Core. Top: Green, med. to coarse arkose Middle: Green, med.-gr. feldspathic sist. with poorly preserved leaves. Bettom: As above, showing 10° to 15°dip. Large, poorly preserved plants. Mudstone with black coal. 4950-4960) (4950-4980)Contaminated 50/50 mudstone-sdatone . (4990-5010) Sandston with traces of mdst. Med.-gr. (5020-5025)Mudstone with traces of sandstone. Mudstone with some black coal. Mudstone with streaks of fine-gr. arkose (5**030-**50**5**0) (5060-5070) and grains og black coal. (5080-5090)50/50 sast-mast. with black coal. Mostly black coal in lumps up to one Inch thick. Some most. & sdet. (5110-5130)("5131") Slump material of brown coal and basalt. <u> Interestins inclusions of brown coal</u> within weathered basalt not recorded above. (5140)- (5160) Mudatone and some black coal. (5170-5200) 100% medium grained arkose. (5210-5250) 75% sanstone and arkose, 25% mudstone. There is one shell fragment (Unio?) (5240-526C) 5220-5225 50/50 black coal and mudstone. The coal is in streaks & inch or less. \$5274-529C) Mostly mudstome with coal as above. <u>5292</u> (5300**-**5330) 5882 Bit semple: Mudstone & Black coal. Carbonaceous mudstone. (5340-5360) Sdst .- streaked mudstone. 50/56 mudstone and fine-gr. sctone. (5370-5380) (5390-5400) 50/50 sdst. & mudst. with coal. (5410-5420)Mudatone with occ. streaks of black coal about one third very fine-gr. sdstone. (5430-5440) Mudstone with black coal. 5456 5456 Bit Samole: 50/50 coarse arkose & mudst.

(5500-5510)

(5520-5530) (5640-5550)

(5560-5570)

with carbonaceous matter.

Med.-gr. arkose with streaks of mudst. and black coal. Coal in sandstone.

50/50 mudet. and sandstone. Mudstone with a few chips of arkose. Red

hematite nodules. Mostly fine-gr. sdst with mudstan-

WOODSIDE No 1.

(5580-5590) (5600**-561**0) 5620-5630) (5840-5650) (5860-5670) (5580**-539**0) (5790**-571**0) (5750-5770) 5769- 5779 5769-5779 (5780-5790) (5800) (5810) (5820) (6820) (5830-5980) (5930) (5940) <u>5950-5955</u> (<u>8950-5955</u>

(5960 - 5990)

(5995) (6000) **4**600**8)** FINIS. Mudstone and shale. Occ. fine-gr. sandstone and some coal.

As above. Some fertiary contamination. Mostly mudstone and claystone. As above. Occ. sostone chips.

As above.

50/50 mmtome & fine-gr. sandstone. As above. Slight contamination. Slump material: Tertiary recks.

Core. -Top: Mudstone and shale with calcite--filledoracks, slickensided along the cracks. Carbonaceous streaks about a inch thick. Dip: 25-30.

Middle: Medium -grained arkosic adst.
Bottom: As above with scattered coal.
Med.-gr. feldsp. sdst. with some mudst.
contaminated with Tertiary rocks.
Med.-gr.sdst. contaminated as above.
Mudstone, edstone and black coal.

As above.

As above, sandstone predominating. Coarse sandstone. One lump mudetone. As above. Occ. mudstone and black coal. Core.-

Top: Fine-grained carbonaceous mudst., Dip: 20°-25°-30°, streaks of earb. matter, cracked, slickensided, conjugate cracks filled with pinkcalcite.

Middle: As above, faulted slickeneided in the extreme.

Bottom: Fine-grained carbonacetts sand stone & mudstone. with irregular streaks of black coal . Dip:25°. Fault hades at 60°dip.

Mudetone with occasional sandstone. Much faulted in a conjugate calcite--filled pattern. Carbonaceous matter. Hard Jurassie mudatone.

A - - Land Dacons of the Control

As above.

Hard Mudstone as above, with much calcit fault-filling material. Continuation of the fault-zone. Extremely shattered rock chips.

Core descriptions by Well-sim Geologist-P.W.Bollen. Woodside No.1

Cores of Jurassic 'Arkose' section.

4098'-4108'

Top; 2'5" Gray med-coarse grained arkose with occaisional inclusions of quartz grit.

611 Calcareous arkose, medium-coarse grained.

21 Gray, med-coarse grained arkose.

4915'-4933'

Top.

71 Coarse to medium grained gray-greenish arkose with occaisional bands and strands of coal, scattered mud

pellets, grit size pieces of quartz scattered irregularly. Arkose as above with bands of calcite at angle of 60 degrees to diameter of core, quartz grit present. Arkose as at top of core

319"

5769'-5779'

Top. 13"

Gray siltstone with specks of coal.

6" Gray arkose, med-coarse grained with calcite at angle of 60 degrees to diam of core.

Gray med-coarse grained arkose occaisional bands of calcite & fwe specks of coal. 616"

5950'-5955'

Top.

51 Laminated siltstone ans shale with specks of coal and some bands of coal, calcite veins at angle of 50 degrees to diam of core and slickensided at same angle.



OIL AND GAS OCCURRENCES IN WOODSIDE NO. 1 and 2 WELLS

The following data was obtained from lithologic logs and drilling reports of the Woodside wells. Oil and gas shows indicated on drilling reports are labelled "D.R".

Description of Show

WOODSIDE NO. 1.

Depth

Depth	Description of Show
1002 7	Slight gas indication (D.R.)
2539°	Gas indication. Petroliferous odour (D.R.
2556 ° - 2577 °	Diffuse oil stains in marl. Marl, green, very glauconitic, no permeability and low porosity, oil smell. Immediately over-lies Latrobe Valley Coal Measures
36501	Gas Show (D.R.)
3720 * - 3728 *	Oil Show? (D.R.)
≈ 44 3 0°	Arkose and mudstone, strongly smelling of crude petroleum. Dark yellow chloroform reaction.
5830°	Oil show in mud stream. No Gas (D.R.)
WOODSIDE NO. 2.	
980' - 1000'	Gas Show and slight show of oil (D.R.)
1310' - 1500'	Oil show reported in this interval (D.R.)
1310' - 1350'	Oil show in sandy marl. Sandy marl, cream coloured, stained brown, containing large quartz grains. Foraminifera, scaphopods and Ditrupa. Oil described in Chemical Laboratory Report 50/52 - 56 of 10/2/56.
1966' - 1980'	Top of core showed brown oil sand (D.R.)
2493° - 2511°	Indications of oil in top section of core $(D_{\bullet}R_{\bullet})$
3104 1	After drilling through coal series mud became saturated with oil and coal and showed considerable gas constantly (D.R.)
31 7 0°	Large flow of gas encountered with colour in mudstream (D.R.)
49621	Positive chloroform test.
5022' - 5032'	Gas Show (D.R.)
5120' - 5290'	Light oil and paraffin in samples (D.R.)
5235° - 5266°	Gas Show (D.R.)
5351° - 5600°	Gas and oil show in mudstream continuous (D_*R_*)
5600° (5635-5640 Boutak.)	Strongly stained sample with free viscous green oil strongly smelling of crude petroleum. Sample 70% arkose, 30% shaly mudstone with a few 1 bands of black coal. Chemical analysis of hydrocarbon in Chemical Laboratory Report 271/272/56 of 6/4/56.
6067 - 6088	Oil sand (D.R.)

PERFORATION TESTS - WOODSIDE NO. 2.

Perforation tests were carried out by Lane Wells Ltd. with negative results. Well beds cased to 6104° with $6\frac{5}{8}$ " Casing.

TEST 1.

Perforated interval 1310° - 1345°. Plug set at 1428° Packer set at 1305°. Test first gave mud moxed with water, then 6lightly brackish water and finally freshwater.

TEST 2.

Perforated interval 5582' - 5618'. Plug set at 5657' Packer set at 5570'. Nothing recovered from formation.

Reports on Oil Samples (Chemical Lab. Reports)

Samples 50 - 52/56 of 10/2/56

Oil from the 1310 - 1350 level in Woodside Well No. 2. Dark brown to black crude oil of S.G. 0.92 - 0.93. This oil is described as a heavy crude oil free from gasoline, kerosine and other light fractions of a mixed paraffinic asphaltic base.

Samples 271 - 272/56 of 6/4/56

Oil from 5635' - 5640' level in Woodside Well No. 2. This oil is described as a crude oil which in the 5640 level contains approximately 20% of light, low boiling point fractions of mixed paraggin - asphalt base, is of softening point 40 - 50° c and contains some sulphur.

This is an enclosure indicator page.

The enclosure PE603968 is enclosed within the container PE905576 at this location in this document.

The enclosure PE603968 has the following characteristics:

ITEM_BARCODE = PE603968
CONTAINER_BARCODE = PE905576

NAME = Electric Well Log

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = WELL_LOG

REMARKS =

 $DATE_CREATED = 8/12/55$

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = OIL DRILLING AND EXPLORATION LTD

CLIENT_OP_CO = WOODSIDE (LAKES ENTRANCE) OIL COMPANY

N.L.

This is an enclosure indicator page.

The enclosure PE603969 is enclosed within the container PE905576 at this location in this document.

The enclosure PE603969 has the following characteristics:

ITEM_BARCODE = PE603969
CONTAINER_BARCODE = PE905576

NAME = Well Completion Log

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = COMPLETION_LOG

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = ,

CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905565 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905565 has the following characteristics:

ITEM_BARCODE = PE905565
CONTAINER_BARCODE = PE905576

NAME = Cross-section of Woodside Bores 1-3

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = CROSS_SECTION

DESCRIPTION = Cross-section of Woodside Bores (from

WCR) for Woodside-1

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR =

CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905566 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905566 has the following characteristics:

ITEM_BARCODE = PE905566
CONTAINER_BARCODE = PE905576

NAME = Stratigraphic Correllation of Woodside

Bores 1-3

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 (from WCR) for Woodside-1

REMARKS =

 $DATE_CREATED = 18/12/56$

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

60 ATTACHMENTS

- b,1. Production Records
- 6,2. Locality Map.
- 6.3 X-section A-A'
- 6.4. x section B-B'
- 45. Sand Member Map.
- 6.6. Structure Map
- 6.7. Sand Member Isopach
- 6.8. Glauconite Isopach.

This is an enclosure indicator page. The enclosure PE905567 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905567 has the following characteristics:

ITEM_BARCODE = PE905567
CONTAINER_BARCODE = PE905576

NAME = Production Records (sheet 1 of 2)

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = PROD_RPT
DESCRIPTION = Well Production Records (attachment 1

from WCR) for Woodside-1

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905568 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905568 has the following characteristics:

ITEM_BARCODE = PE905568

CONTAINER_BARCODE = PE905576

NAME = Production Records (sheet 2 of 2)

BASIN = GIPPSLAND

PERMIT = PPL/174

TYPE = WELL

SUBTYPE = PROD_RPT

DESCRIPTION = Well Production Records (attachment 1

from WCR) for Woodside-1

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR =

CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905569 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905569 has the following characteristics:

ITEM_BARCODE = PE905569
CONTAINER_BARCODE = PE905576

NAME = Lakes Entrance feild Locality Map

BASIN = GIPPSLAND PERMIT = PPL/174

TYPE = GENERAL

SUBTYPE = PROSPECT_MAP

DESCRIPTION = Lakes Entrance feild Locality Map

(attachment 2 from WCR) for Woodside-1

REMARKS =

DATE_CREATED = 7/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905570 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905570 has the following characteristics:

ITEM_BARCODE = PE905570
CONTAINER_BARCODE = PE905576

NAME = Structural Cross-section Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = CROSS_SECTION

DESCRIPTION = Glauconite Sand Member, Structural

Cross-section A-A' (attachment 3 from

WCR) for Woodside-1

REMARKS =

DATE_CREATED = 9/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page. The enclosure PE905571 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905571 has the following characteristics:

ITEM_BARCODE = PE905571
CONTAINER_BARCODE = PE905576

NAME = Structural Cross-section Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = WELL

SUBTYPE = CROSS_SECTION

DESCRIPTION = Glauconite Sand Member, Structural Cross-section B-B' (attachment 4 from

WCR) for Woodside-1

REMARKS =

DATE_CREATED = 9/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page. The enclosure PE905572 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905572 has the following characteristics:

ITEM_BARCODE = PE905572
CONTAINER_BARCODE = PE905576

NAME = Glauconite Sand Member Structure Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = SEISMIC

SUBTYPE = HRZN_CONTR_MAP

Woodside-1 REMARKS =

 $DATE_CREATED = 7/01/86$

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page. The enclosure PE905573 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905573 has the following characteristics:

ITEM_BARCODE = PE905573
CONTAINER_BARCODE = PE905576

NAME = Glauconite Sand Member Structure Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = SEISMIC

SUBTYPE = HRZN_CONTR_MAP

DESCRIPTION = Glauconite Sand Member Structure

Map(attachment 6 from WCR) for

Woodside-1

REMARKS =

DATE_CREATED = 7/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page. The enclosure PE905574 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905574 has the following characteristics:

ITEM_BARCODE = PE905574
CONTAINER_BARCODE = PE905576

NAME = Glauconite Sand Member Isopach Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = SEISMIC

SUBTYPE = ISOPACH_MAP

REMARKS =

DATE_CREATED = 7/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page.

The enclosure PE905575 is enclosed within the container PE905576 at this location in this document.

The enclosure PE905575 has the following characteristics:

ITEM_BARCODE = PE905575
CONTAINER_BARCODE = PE905576

NAME = Glauconite Sand Member Isopach Map

BASIN = GIPPSLAND PERMIT = PPL/174 TYPE = SEISMIC

SUBTYPE = ISOPACH_MAP

REMARKS =

DATE_CREATED = 8/01/86

DATE_RECEIVED =

 $W_NO = W441$

WELL_NAME = WOODSIDE-1

CONTRACTOR = CLIENT_OP_CO =

This is an enclosure indicator page. The enclosure PE906846 is enclosed within the container PE905576 at this location in this document.

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The enclosure PE906846 has the following characteristics:
    ITEM_BARCODE = PE906846
CONTAINER_BARCODE = PE905576
            NAME = WOODSIDE-1 Lithological Column
            BASIN = GIPPSLAND
         ONSHORE? = Y
        DATA\_TYPE = WELL
    DATA_SUB_TYPE = LITHOLOGY_LOG
      DESCRIPTION = Lithological Log (enclosure from WCR)
                   for WOODSIDE-1. NOTE! This item was
                    previously incorrectly placed in
                    WOODSIDE-2 Well Summary.
          REMARKS = PERMIT: PPL/174PAGES: 1
    DATE_WRITTEN = 28-SEP-1955
   DATE_PROCESSED =
   DATE RECEIVED = 17-MAR-1986
    RECEIVED FROM = Woodside Oil NL
        WELL NAME = WOODSIDE-1
       CONTRACTOR =
          AUTHOR = D.Thomas
       ORIGINATOR = Woodside Oil NL
        TOP_DEPTH =
     BOTTOM_DEPTH =
   ROW_CREATED_BY = xls_fh11
(Inserted by DNRE - Vic Govt Mines Dept)
```