69F X

WELL ELEMENTARY MUMBANNAR - 1 (W369)

WELL ELEMENTARY MUMBANNAR-1 (W369)

CONTENTS.....

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Section :

(1) Well Card

(2) Lithology



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SECTION (1)

WELL CARD

PE904080

1445673875244434470

PROMONIUM PROVINCIA

This is an enclosure indicator page. The enclosure PE904080 is enclosed within the container PE904079 at this location in this document. -----

建設に行いてい

The enclosure PE904080 has the following characteristics: ITEM_BARCODE = PE904080 CONTAINER_BARCODE = PE904079 NAME = well card BASIN = OTWAY PERMIT = TYPE = WELL SUBTYPE = WELL_CARD DESCRIPTION = well card Mumbannar 1 REMARKS = $DATE_CREATED = 01/01/1926$ DATE_RECEIVED = $W_NO = W369$ WELL_NAME = Mumbannar-1 CONTRACTOR = Mersey Valley Oil Co CLIENT_OP_CO = Mersey Valley Oil Co (Inserted by DNRE - Vic Govt Mines Dept)

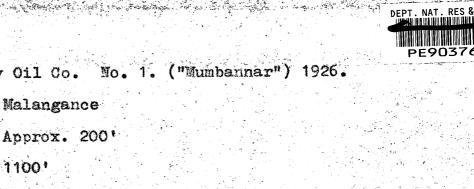
Mumbannan No 1 Meney Valley Cil Co. 1926 El. 200 ± Spinololed. Ph. Malaganee T.D. 1100 abandoned S. W. Cm. allot . 34 (5.?) Location 37°51'10"5 Long 141° 02 40 E Ph. Molangance ., homes tone Ridge Finestone + mail 0-800' DEPT. NAT. RES & ENV PE903766 hightipour sendsteleys 800 - 1100. Canded

SECTION (2)

。 (病)

1

LITHOLOGY



Location:

Elevation:

Parish:

T.D.:

Southwest corner allotment 3A. Ph. Malangane Limestone Ridge. Lat. 37° 51' 10" S. Long. 02' 40" E. Ph. Malangance, 1⁰ 14

Lithologic Log

Mersey Valley Oil Co.

Water Tall South I a

Malangance

1100'

Depth Struck

2

Sand	0
Loose sand with bands hard limestone	18
Hard Limestone	36
Sandy limestone	50 ੂ
Sand with fossils	90
Dark caving sand	108
Dark sandy clay	115
Limestone, polyzoal	125
Sandstone and sandy clay bands	181
Sand with shells	487
Clay with grit and shells	498
Sticky clay	505
Sandy clay with sandstone seams	520
Marl, clayey	574
Limestone, polyzoal	637
Marl clayey	669
Limestone, polyzoal	698
Marl, grey	740
Sandstone and marl layers	786
Conglomerate with clay	798
Clay, dark brown	825
Shale black	862
Shale, brown, coaly	870
Sandstone	877
Crit	880
Sandstone, grit and conglomerate	906
Conglomerate	934
Sandstone	954

Shale brown		970
Shale, dark brown	\mathbf{a}	978
Shale dark with s	sandstone layers	1005
Shale dark brown	with sandstone and	
conglomerate band	1 s	1028

Further Reference.

Ward (1926) S.A. Mining Review No. 43. p. 50. No electric logs or mechanical logs were run on this bore. Mr. W. Bergwarack 1947.

W369 lage10f2 MUMBANNAR-1.

84 635



Year

detail

avence

MERSEY VALLEY OIL COMPANY: The "arsey Valley Gil Company is operating at Mumbannar about mixing between Dartmoor on the Glenelg River and Mt. Gambier.

E depth of @ 1100 feet has been reached by boring and the Company has temporarily suspended operations. The area is one where from a geological standpoint, it is entremely difficult to forecast what may be met with in drilling on account of the lack of surface evidence and consequent lack of data regarding underground structure. Recently I had an opportunity of going into the matter with Dr. Wade, Petroleum Advisor to the Bederal Govt. and the conclusion was that while there was no evidence in favour of the existence of an oilfield, there was no evidence scallable that would militate against such occurring and he strongly recommended a geological and palaeontological survey being made of the whole of the area in the south-west portion of the State.

Owing to lack of staff this work has not yet been taken av in hand and the position stands as it did when visited last so far as surface work is concerned. But the boring results A have disclosed for an of importance regarding the geological sections of the Tertiary strata.

From the scientific as well as the concrice aspect it is desirable that boring operations be accorded as the depth attained is the greatest reached within a radius of 20 miles and the deepening of the bore another 1000 or 1500 feet would supply evidence either for or against expenditure of capital in the locality. Thus, while it is not possible to say an oil field will be indicated, there is at present no evidence on which to say and further boring is not warranted. (Signed) W. Baragwanath, 22/3/1926.

Boring Log supplied by Goldfields Diamond Deilling Co.

No. 1. Hole Mumbannar.

Collar 18°

الحالات المشارك ال				· 이상 · · · · · · · · · · · · · · · · · ·
	18*	to	36 1	Loose brown calcardous sand with hard
				bands of limestone.
	- 36 [*]		50	Hard bands of limestone.
	50'	to	90°	Sandy limestone.
· · · · · · · ·			108 °	Sand mixed with fossils
			115'	Dark caving sand
			125	Dark sendy clay
	125'		181'	Coral
	181'		392 [•]	Bands of limestone and calcarcous clay
			487°	Sandy clay with bands of limestone
			498°	
			505 \	Clay with grit and shells.
	505			Sticky clay
	520'			Sandy clay with seams of sandstone
	574		596	Sticky clayey marl with bands of limestone
in tanka			6371	
			6691	Coraline limestone
			698°	Clayoy marl
			740	Coraline limestone
	740	to	786	Grey manl
				Alternate layers of sandstone and marl
		60	803'	Cemented gravel conglomerate. Cemented gravel with clay seems
	804		817' 825'	Cemented gravel conglomerate
	817' 825'		882°	Dark brown clay
			870 ³	Black shale-like clay
	862 ' 870 '			Brown coaly shale
	877			
,	880		୦୦୦ 887≛ି	Cemented sand, hard
		•	•	
iei.	887'	τo	906	Cemented gravel
	ا المراجع وي المراجع ا ويوجع المراجع ال ويوجع المراجع ال			성장 이 것이 그렇는 한 것 같은 것 같은 것 같은 것 같이 가지 않는 것 같이 않을

278

and and a second and		
2 minut		
*		910
•		72
• •		
	906' to 934'	Alternate layers of brown clay and cemented sand and conglomerate
	934' to 942'	Conglomerate
	942' to 952'	Hard conglomerate
•	952' to 954'	Conglomerate Cemented sand
	954' to 970' 970' to 978'	
•	978' to 1005'	Derk brown shilley cley
•	1005' to 1028'	Brown clay layers of cemented sand and conglomerate
~	1028' to 1059'	Brown shale clay with few thin seams of cemented sand
	1059' to 1100'	Bark brown clay with occasional bands of
•	TANKA CO ATTAA	cemented sand and conglomerate
	Weter Brom on over	ination of the cores at this bore I find
	that from th	a surface to EUU TT. LUCLUSIVE. EVEL
	comple Mi ef	ferrened freely with hydrochloric sciu.
	Nothing effe	rvesced below 800 It, and there was no
	Cartz sand	present above 300 ft.
	Examined with Prof Rich who afraid useles actor who	(Digned) W. Baragwanath,
	who afraid user will	
		Director of Geological Strvey
	Determinations fr	om Small Samples at Bore (Tanamplete)
	To 108'	Duhe limestohe ? Oyster bed
	115' to 125'	Marl
ð	125' to 240'	Limestone with corals, hard, in
		places Limestone, soft.
•	240' " 875' 300' " 200"	Wine groy limestone
••	487' " 500	Limestone with gragments of fossils
	505' " 540'	Fine grey limestone marls
	540' " 370'	Soft fossiliferous himestone Fine grey limestone and marl
	570 " 700'	
	700° " 740' 94 740' " 800' 4	mestaines_ Soft limestone and marl
	800' " 825'	Quartz sand
	825' " 862' A	ignifian Lignitic clay
	870' " 877' 5	Black clay and lignite Sand
	877' " 970' 970' " 1020'	Lignitic clay
	1020' " 1025'	Crystal sand (siliceous)
	1025' " 1050'	Ligneous clay Ligneous clay and sand
	1050° "1100°	THE COURSES AND
		이 같은 것이 있는 것이 있는 것이 같은 것이 있는 것이 있 같은 것이 같은 것이 있는 것이 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 없는 것
		에 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 같은 것이 있는 것이 있 같은 바람들은 것이 같은 것이 있는 것이 같은 것이 있는 것이
		- 2019년 1월 19일 - 1월 20일 - 1월 2 2월 21일 - 1월 2
		사람이 있는 것 같은 것 같은 것 같은 것 같아. 이 것 같은 것

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54a 7 m

Depth to	Formation	. u
00 459 496 508 6 08 630 1045	Fragmentary basalt. Sand and clay. Shales and clay, fossilferous. Travertine. Lignitic clay. Dry quartz sand. (at 945 circulation water brought black lignite.)	DEPT. NAT. RES & ENV PE903770 up fragments of
	Boring still going on.	
and Tertiary its retention	foregoing shows that in both formation to, the conditions for the formation on in porous beds are quite suitable wide ample proof of the existence of	of petroleum and OBS e. In fact, t he
e 41 Number of B	Dre 3V. MUMBANNAR-1.	
CompanyMe:	sey Valley Oil Company Limited.	
	itween Mumbannar and Gambier.	
Elevation	· · · · · · · · · · · · · · · · · · ·	
	Ø	
Depth to	Formation.	
$ \begin{array}{r} 18 \\ 36 \\ 50 \\ 90 \\ 108 \\ 115 \\ 125 \\ 181 \\ 487 \\ 498 \\ 505 \\ 520 \\ 574 \\ 637 \\ 669 \\ 698 \\ 740 \\ 786 \\ 798 \\ 825 \\ 862 \\ 870 \\ 877 \\ 880 \\ 906 \\ 934 \\ 954 \\ 970 \\ 978 \\ 1005 \\ 1028 \\ 1100 \\ \end{array} $	Sand. Sand. Sandy Loose sand, with hard beds of Hard limestone. Sandy limestone. Sand, with fossils. Dark caving sand. Dark sandy clay. Coraline limestone. Sand, with shells. Ckay, with grit and shells. Sticky clay. Sandy clay with seams of sandstone. Clayey marl. Coraline limestone. Clayey marl. Coraline limestone. Grey marl. Layers of sandstone and marl. Conglomerate with clay. Hyak brown clay. Black shale (Trias-Jura?). Black shale (Trias-Jura?). Conglomerate. Sandstone, Grit. Layers of sandstone, grit and congle Conglomerate. Sandstone. Brown Shale. Dark brown shale. Dark brown shale with bands of sandstone. Sandstone. Sandstone. Conglomerate with layers of sandstone. Conglomerate. Conglomerate. Conglomerate. Conglomerate. Sandstone. Brown Shale. Dark brown shale. Dark brown shale with bands of sandstone. Caracter with bandstone. Caracter with bandstone. Caracter with bandstone. Caracter with bandstone. Caracter with bandstone. Ca	ease of Limestore Terrary Lomerate.
J. W. W.		

Number of Bore--3 V.

Page 42.

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Clay, black.

Company--Mersey Valley Oil Company Limited.

PE903772

Location--Between Mumbennar and Gambier. MUMBANNAR-1 $\mathbf{e}^{\mathbf{v}^{j}}$ Elevation--Formation. Depth to Sand. 18 36 Loose sand, with hard beds of limestone. Hard limestone. 50 90 Sandy limestone. Sand, with COLD foscils. 108 Dark caving sand. 115 125 Dark sandy clay. Coraline limestone. 181 487 Bands of sandstone and sandy clay. 498 Sand, with shells. Clay, with grit and shells. 505 520 Sticky clay. Sandy clay with seams of sandstone. 574 637 Clayey marl. 669 Coraline limestone. 698 Clayey marl. 740 Coraline limestone. 786 Grey marl. 798 Layers of sandstone and marl. Conglomerate with@ clay. 825 862 Dark brown clay. Black shale (Trias-Jura?). 870 Brown coaly shale. 877 880 Sandstone. 906 Grit. 934 Layers of sandstone, grit and conglomerate. 954 Conglomerate. 970 Sandstone. 978 Brown shale. 1005 Dark brown shale. 1023 Dark shale with adyers of sandstone. 1100 Dark brown shale with bands of sandstone and conglome ate. Bores 1 to 5 suck for geological survey purposes in 1928. 82, park Varsh of Comegong Company--Government. Location--5 chains south-east along road from north-east boundary of Darimoor township. at h weren of alla Depth to Formation. 10 Sand. 13 Sand and blue clay. Clay, blue, plastic. 16 19 Shells with lime. 20 Limestone rubble. 24 Sand. 26 Sand and water worn rubble. 27 Sand, drift. 38 Sand, red. 46 Sand and gravel.

10

115	Sand.
122	Sand and clay.
130	Clay, Gaage.sandy.
169	Sand.
174	Sand and gravel.
220	Clay, sandy.
224	Sand and gravel.
225	Clay, sandy.
234	Sand.
236	Clay, sandy.
239	Clay, black.
267	Sand, drift.
301	Clay, black.
302	Gravel and sand.
309	Sa m d, drift.
331	Clay, black.
350	Sand, drift.
4 4 6	Clay and sand.
449	Sand, drift.
460	Clay, brown.
488	Sand.
494	Clay, brown pyritic.
513	Clay.
520	Sand and pyrites.
<u> 6</u> 85	
53 2	Clay, pyritic1
547	Sand and pyrites.
555	Clay.
564	Sand with abundant nodules of pyrites.

Brackish water struck at 88 feet, 168 feet and 550 feet, standing at 10 feet.

Although organisms are scarce in the material (477 feet to 555 feet) examined by F. Chapman, he found some specially minute forms of foraminifera, the assemblage in his **Optoopool Second Optoopool** pointing quite conclusively to its relationship with the lignite series which underlies the Middle Miocene or Polyzoal Series in various parts of Victoria.

CHAPTER. 1V.

ECONOMIC GEOLOGY.

THE OIL LANDS.

The Western Petroleum Exploration Company No-Liability.

The Company holds under lease a number of sections in the Parishes of Tarragal, Mouzie, and Kentbruck in the County of Normanby, State of Victoria. The most important of these leases combine to form a large block 15 square miles in area and may be enumerated as follows:-

- 47 -

will

PE90377 Mersey Valley dit lo. Mumbannar No !. Bony log saffled & Goldfield Diamed Drilling 6. Surfended at- 1100 beller 18' from brown calcarcon sand with hard banch 18'- 36' of limestone. Hard bards of limestime 36'- 50 Sandy limedone . 50'-90' Sard misad with foreis 90'- 108' Dark caring send 108'- 115' Dork sandy day. 115'-125' 125- 181' loval. Bands of lineatime + calesveros day. 181-3921 Sandy day with bands of linestone 392'- 487 Send with shills 487-498 Clay with grit and shells. 498'- 505' Sticky day. 505'- 520' Sandy day with seams 1 sandstore 520'- 574' Sticky daying mert with bands & limestone Grey daying mert 574-596' 596'-637' Covalin limestore 637'- 669' Clazar mart Loraline Simestone 669'-698' 689'-740' men mart 740'- 786' Allematic layers of sandstone & ment. 786'- 798' Comented gravel conglomerat 798'- 803' " with clay seams. 804'- 817' congloment. 817'- 825' Dark brown clay 825'- 862' Black shak - like clay 862'- 870' Brown & coaly shale 870' - 877' " dørken in abour 877'-880' <u>'</u> Comented send, lard. 880'- 887' Cemented grand 887' - 906' Alternat layers from day & amented sand & 906'- 934 Loglomerat . Longlommet 934-9421

Gont.

Mumbannar Kol - cont. 942' - 952' Hard conglomerat 952'- 954' longlomerati. 954'- 970' Comented sand 954'- 910 970'- 978' Brown clay 978'- 1005' Dark brown shaley clay. 1005'- 1028' Brown clay with layers 1 cemented sand + congloment-1005'- 1028' Arom clay with layers 1 cemented sand + 1028'-1059' Brow shah day with few this seams 1 Corrented sand 1059 - 1100' Park how day with origining bands of cemential send and inglorerate. Nate & W. Baraguanath 25-1-26 - "For an examination 1 the wore at this bove I find that from the surface to 800 f inclusion any samp forward freely with hydrochloric and . Nothing effervisud below sou It. and then war my quarty save present alm 800 ft. Delimide for mall south & Bom (Tranplate) To 108' Dune limestone ? Oyster bed. 115'- 125' Marl Timedon with words, hard, in places. 125'- 240 Lineston, aft. 240'- 275' fine gray limetore. 300'- 487' Time dome with fragments of fossils. Fine grey limestore ments. 487-505' 505'- 540' Soft forsiliferous linestore. Fine grey limestore end mert. boralline limestore 540'- 570' 570'-700' 700 - 740' Soft linestone and ment 740'- 800' Quarty sand 800'- 825' Lignitis day 825'- 862' Black day + ligniti 870'- 877' Sand. 877'-970' Ligniti clas. 970'- 1020' Complet sand 1 dilices 1020'- 1025' Ligneon dog. 1025'-1050' 1050 - 1100' " " I fand

a a 1	/+3	J Coulsell pls_
Mersey Vall Parish M		
Parish: M		PE903774
	3pprox 200'	
T.D: 1100		· · · · · · · · · · · · · · · · · · ·
	Senthwest come allotment 3	
Ri	idge kat. 37°51'10"S har	ng 141° 02'40"E,
Lithologic Lo.		Depth Struck,
	Sand	.
	Loose sand with bands hard limest	fone 18
	Hard limestone	36
	Sandy limestone	50
	Sand with fossils	90
	Dark caving sand	108
	Dark samply clay	115
_	Limestone, polyzozl.	125
	Sandstone and sandy clay bands	181
	Sand with shells	487.
	Clay with grit and shells	*98
		*98 505
· ·	Sticky day Sandy day with sandchone sea	
	Sandy clay with sandstone sea	
	Marl, clayey	574
	Limestone, polyzoal.	637
	Marl elayey.	669
	Limestone, poly 2021.	698
	Marl, grey.	740
	Sandstone and marl layers	786
	Conglomerate with clay.	845 798
	Clay dark brown	825
	Shale black	862
••••••••••••••••••••••••••••••••••••••	Shale brown coaly	870
	Sandstone	877
	Grit	880
······································	Sandstone, grut, and conglomerate	
	Conglomerate	934
	Sondstone	
s. 		954 970
	Shale brown.	970
	Shale dark brown Shale dark with sandstone las	978 14ers 1005
	Shale dark with sandstone lay shale dark brown with sandstone	2 and conglomerate 10 28
Further Refe		banks.



Mersey Valley Oil Co. No. 1. ("Mumbannar") 1926. Parish: Malangance Elevation: Approx. 200'

1100' T.D.:

Location:

Southwest corner allotment 3A. Ph. M. Limestone Ridge. Lat. 37 51' 10" S. Ph. Malangance 1410 Long. 02' 40" E.

Lithologic Log

Depth Struck

0

Sand 18 Loose sand with bands hard limestone 36 Hard Limestone 50 Sandy Limestone 90 Sand with fossils 108 Dark caying sand 115 Dark sandy clay 125 Limestone, polyzoal 181 Sandstone and sandy clay bands 487 Sand with shells Clay with grit and shells 498 505 Sticky clay 520 Sandy clay with sandstone seams 574 Marl, clayey 637 Limestone, polyzoal 669 Marl clayey 698 Limestone, polyzoal Marl, grey 740 786 Sandstone and marl layers 798 Conglomerate with clay Clay, dark brown 825 862 Shale black Shale, brown, coaly 870 877 Sandstone 880 Grit 906 Sandstone, grit and conglomerate 934 Conglomerate 954 Sandstone

Shale brown970Shale, dark brown978Shale dark with sandstone layers1005Shale dark brown with sandstone and1028

Further Reference.

Ward (1926) S.A. Mining Review No. 43. p. 50. No electric logs or mechanical logs were run on this bore.



MERDEY YALLSY OIL CO. LTP.

supplied by Goldfields Diamond Drilling Co.Pty.Ltd.

DEPT. NAT. RES & ENV PE903769

No. 1 Hole Mumbannar.

	911ar 18' 18'	to	361	Loose brown calcareous sand with hard bands of
				limestone
	361	静	501	Hard bands of limestone
	501	群	901	Bandy limestone
	901		1081	Sand mixed with fossil
	108 •	静	215'	Dark caving said
	115'	·	125'	Dark sandy clay
	125'	*	181,	Corsl
	181*	₩.	A 400	Bande of limestone and calcareous clay
	3821	\$ }	487*	Sandy clay with bands of limestone
	4871	*	4981	Sand with shells
en an an Araba San an Araba San an Araba	498•	쵉	5051	Cley with grit and shells
Ť	5051	*	5201	Sticky clay
	5201	發	31 -	Sandy clay with scame of sandstone
	574'	赖	596 .	Sticky clayey marl with bands of limestone
	596*		6371	Grey olayey marl
	637	辞	669 1	Coraline limestone
	669*	₩	698.	Clayey marl
	6981	#	7401	Coraline limestone
	740	發	7861	Grey marl
	786	赣	798	Alternate layers of candstone and marl
	x 798'	- 44	8031	Cemented gravel conglomerate
	8031	-#	817'	Comented gravel with clay seams
	817'	198 198	825	Comented gravel conglomerate
	825	**	8621	Dark brown clay
	8621	574 - 132	870!	Black shale-like clay
	8701	# #	677	Brown coaly chale
	877		880	* " " ,darker in colour
	8801		8871	Comented sand, hard
	8871	. 94 44	9061	Cemented gravel
	906*	***	934	Alternate layers of brown clay and cemented
	-	***		sand and conglomerate
	934	977 	9421	Conglomerate
	942		9521	Hard conglomerate
	952	37 53	954	Conglomerate
	954	1997 1	970	Cemented sand
	9701		978	Brown clay
Astron Colored	978	87 38	1005	Dark brown shaley clay
	1005'	*1	10281	Brown clay with layers of cemented sand and
	****	9 21	* * **** *	conglomerate
	1059.	1 12	1059 1	Brown shale clay with few thin seams of
	to an addres &	, Alla	• • • • •	comented sand
	1059'		1100,	Dark brown clay with occasional bands of cemented sand and conglowerate

Note:-

From an examination of the cores at this bors I find that from the surface to 800 ft. inclusive every sample effervenced freely with hydrochloric acid. Nothing effervenced below 800 ft. and there was no quarts sand present above 800 ft.

AB

DIRECTOR OF GLOLOGICAL SURVEY 25/1/26.

SHEINATIONS FROM SMALL SAMPLES AT BORE (INCOEPLETE) ****

	and the second	1	• '• •
		÷	
	To 100	3•	
	115'	to	125
÷	125 .	材	240
, , s	240	3 9	275
	300'	#	487
	487 .	靜	505
	5051	4	540
	5401	赣	570
	570'		700
	700'	#	7.40
	740+	辫 .	800
i ș	800 .	#	825
2	8251	**	862
	870.	*	877
	8771	難	970
	9701	靜	1620
	10201	發	10251
	10251		1050
	10501	Â.	1100

Dune limestone 9 Oyster bed Marl. Limestone, with corals, hard, in places Limestone, with corale, hare, in prace Limestone, soft Fine grey limestone Limestone with fragments of fossils Fine grey limestone marls Woft fossiliferous limestone Fine grey limestone and marl Coralline limestone Soft limestone and marl Quartz band Lignitic clay Black eley and lignite Sand Lignitic clay Crystal sand (siliceous) Ligneous clay Ligneous clay and sand