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AGRICULTURE + RESOUTCES + CONSERVATION + LAND MANAGEMENT

WELL SUMMARY GIPPSLAND-1 (W418)

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WELL SUMMARY GIPPSLAND-1 (W418)

CONTENTS PAGE:

APPENDIX....

1.0 Well Card

2.0 Well Summary

3.0 Weekly Drilling Reports

4.0 Lithology

4.1 Hand written Lithology 175'-1747'

4.2 Log of no. 1 Bore 0'-1766'

- 4.3 Log of no.1 Bore 250'-1484'
- 4.4 Log of Gippsland-1 690'-1747'

5.0 Correspondence

Appendix 1.0

Well Card

PE904142

a in Subar

This is an enclosure indicator page. The enclosure PE904142 is enclosed within the container PE906076 at this location in this document.

The enclosure PE904142 has the following characteristics: ITEM_BARCODE = PE904142CONTAINER_BARCODE = PE906076 NAME = well card BASIN = GIPPSLAND PERMIT = TYPE = WELL SUBTYPE = SUMMARY DESCRIPTION = well card Gippsland 1 REMARKS = $DATE_CREATED = 28/02/39$ DATE_RECEIVED = $W_NO = W418$ WELL_NAME = Gippsland-1 CONTRACTOR = Gippsland Oil Co Ltd CLIENT_OP_CO = Gippsland Oil Co Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

Appendix 2.0

Well Summary

20

endix 2.0 211 Summary

"Jippsland Oil Co Seppeland Oil No 1. W 418 El. 255. 235 T.O. 1766. Long. 147° 52'20"E.) Ref. O.D.L. Kef. O.D.L. Spudded 28 Feb. 1939 abandoned. Nov. 1939 El. Reported as 255 later converted to 235 Location allex. 111 Ph. Bunglemach. Kough log in M. 4 G. J. / Vol. 2. No3. + Wele analysis + Gas + Cil Shows. p 161-163. Land and clay 0-250 Shelly marl 250-463 Polyzoal limestone 500 - 1200 Mucaceous moul. 1216 - 1373. brey green saft sandstone with some glan courte 1446 - 1458' Hand grey sandstone urth a httle glancomite ... 1458-1462' Fine and coarse loosely compacted white quarty sound and elayey sand ... 1462 - 1477 White quart nand with chips of grey shall and sandstone '483'-1484' Ley whiceaus metamorphic shale with fine quarty weinlets ... 148 Y Samples of shale, or sand mixed with ships of shale ... below 1484 The glancomitic sandstone attained in this have at 1446-1458 is comparable with the lakes Entrance material, but oppears to contain more elay & less glancomte " 1.C.H. Crell

G.O.C. Noi Extraction tests for ail on several samples geve completely megative results. a number of family obtained from the loose sands below the glancomite beds include several small well preserved thanks teeth, fish seales, and some pyritic replacement of earab vinolluses

60 C. 1. (cont) From. O.D.L. (- Weekly drilling Records) (at 1555' Rec 1939) Dulled in PPR. 68. El. 245 35%. not 205' as originally stated Oil & Gas Shows Non inflormable gas at 15', short flow. Gas & distinct films of ail 637 - 705' ·· · · 705 - 798' Volume of gas slightly increasing as bere is deepened. Formation too tight to expect much gas. all gas hubbles carry heavy ail film. 798'- 858' Distinct films afail on bailing 940'1"- 952'. When core (977-1046) is cut ul chloroform a heavy residue of oil Cas increased in volume & films afail stranger 1170-1203. chloraform ent of core at 1226' gave eil residue, not tested because Water at 290-298'- barled at rate 590 gph. did not lower level below the 290 ft. mark.

8" a) 357 82" When bere was at 1550', 134' of 8' caring was Casing remand to Nor love, leaving & a 223, a further 138' remaved lianing 8" 2) 85'. 7 unther 28' remained cleaning 8" 2) 57' Cores 5" a) 1682 Every ten ft. belaw. 1090'. Lemp. Imp. of formation at 1118 was 115 F (Normal temp. at that depth. 87°F) at 1200 ·· 118°F 1235 " 117°F 1260 1350 " 122°F Lunp gradient shawing constant nie of 1 °F. for every 40 of depth,

G. D. C. Nol. (cont.)

die VGas shaws lout From 1345' level, globules of ail are appearing on the track with Strong flow of gas at 1456' inter ferring with bailing aperations when water had been bailed to within 200' of bottom, when water had been bailed to within 200' of bottom, - this was shut off on recementing the 6' carring at the 1458' The shing level. Oil noted at 1482' Betumen preked up by bailer at 1482 Bay pressure very strong I sunging, caresing water level to rise & fall Abetween 160 ' + 255' levels. Gastail showing freely 1482-1500 too shavening ut pressure. I ail much in endere in bailer 1500-1510 Heavy gas pressure . I and shows . 1510-1533 . 1533-1544. Samples of Januation contain aie, gas strong . 1544 - 1555, V. Strong glaw gas w/ petraleum odam & ail shows, 1565-1569. Gas & tan oil shawing in sandy shale. Strangger, Show of gas and bles w/films afail in slung when bailing fram 1705', Gas persoling lind it less grantity 1705 - 17.5 bas pressure increased at 1724' & eauld be set alight in drain. (continued.) Cenenting Operations . Bore remerted off at ining (6" caring at 1447'). after dulling out rement inside 6" casing the easing chapped approx 6" fracturing the rement on the antide of the caring. On attempting to care finthe to find a seat for earing we found the piece of stiel from underneamer, los which had an nicht a state higher underneamer leg which had been side tracked higher up the bale had become dislodged & was again in the battom of the bare, an decreming to 1456' a saft glancomte band was encountered into which the prece of steel sidetracked a had band was encountered at 1458' on which the casing was reseated attempts to coment the easing at this slepth farled achieved only a

G.O.C. Nol Cementing generations. temporary shot-off. as the bale continued to make water at **6** g.p.h Forther (caring commented at. 1483 .) With . T.D. 1575.' - Mindding off sands & comping bore full of salt water to hold formation back.

Oil & Gas Shares (cont) at '727' level the gas in The strata, suged with such volence as to canneithe water in the caring to overflow at the cap. a sample of this gas was taken I forwarded to Han (Mnés Deph) for analysi 600 pressure . still continuing . '736 - 1745

Gippsland thit to. Itd. (- Gippsland Nol. Well file comis a typed betalogical bog 1 the well but on comparing it wild weekly Drilling helperts schulted of the company several differences even sun. Here differences are recorded here one notid onte about by, 690'-705' in W. D. R .- Light- grey polyod lime with firstencountered here are in a state of transition from shell to live . Shells cannot be recovered from formation dare to their country state. 738 - 753' in W. D. R .: - Trey green polygood lime and frogmenting burestine. Heaviest word get encountered. The cord shafts having diametins up to 3/4". 787' - 798' in W. D. R. as added note : - Finely flaked mica. bream abundloved. \$23' - 839' in W.D.R. - Water green polynd lime with grander limestone \$39' - 847' in WDR: - Greenish grey polynd lime with granden limestone. 1159' - 1164' in W.DR: - Greenisk grey polygoal him mart containing large number of bi-values, some hear cord, sand and a few crystals of pyritis. 1164-1170' ni W.D.R. Greenish grey mart. 1611-1623' in W.D.R. Harth to loft-grey to blanch grey & green shakes with some sand I quenty quains : Hand Sandy these 1669'-1677' nº N.D.R. 1677'-1687' Alternating bands 1 Stole + Inon Sandston

September, 1940

MINING AND GEOLOGICAL JOURNAL

Sippeland -1.

Notes on Gippsland Oil Bores

By I. C. H. Croll, B.Sc.

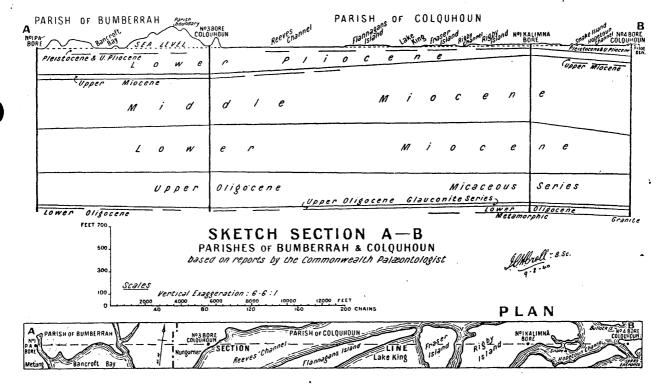
GOVERNMENT BORES.

Since the beginning of 1940 the Victorian and Commonwealth Governments have extended the exploratory drilling campaign for oil by completing three bores in the Parish of Colquhoun, whilst two others are in progress in that parish and one in the Parish of Bengworden South. The three completed bores yielded a great amount of valuable geological information, as they were all in regions which had not previously been drilled, and help to fill in gaps in the knowledge of the structural conditions of the district between Lakes The accompanying west-east Entrance and Metung. section A-B includes two of these bores, Nos. 3 and 4, and indicates how the information gained from them links up with the data from No. 1 Point Addis bore at Metung and No. 1 Kalimna bore at Rigby Island (see Records of Boring Operations 1923-30, pp. 116 It should be noted that the relation of the and 117). vertical to the horizontal scales is 6.6:1, and that after allowing for this considerable exaggeration the surfaces of stratigraphic divisions are relatively flat. As the section is along the strike of the beds this is not surprising, but it does indicate how remote is the possibility that faulting has occurred along the direction of the dip, as has been claimed.

Cores from each bore were sent to the Commonwealth Palacontologist at Canberra, and summaries of her reports, where available, are given below. As the purpose of the bores was primarily to obtain a more complete knowledge of the physical properties of the glauconitic series, the samples of this material were sealed on recovery, and are being tested for porosity, permeability, saturation, and lithological details.

No. 3 Bore, NUNGURNER.

This bore is situated on the shore of Reeves Channel (Lake King), about 20 chains north-easterly of the Nungurner jetty, in the township of Nungurner. No drilling difficulties were encountered until the top of the glauconitic sandstone series was reached at 1,434 feet, when the depth and hard drilling made progress very slow. The series comparable with the oil-bearing beds at Lakes Entrance proved to be only a few feet thick, and was succeeded by bands of a very hard sandstone containing some glauconite. It is not unreasonable to regard this hard sandstone as part of the glauconitic series, rather than to make a separate subdivision of it or to include it with the Lower Oligocene beds with which it has no affinity, and it has been shown on the section in that way. A similar hard sandstone



159

195

bod

was recorded below the typical glauconitic bed at the Gippsland Oil Company's No. 1 bore (see below). The Commonwealth Palaeontologist has determined the following sequence in the Nungurner bore :---

Lower Pliocene	••	 100'-243'
Upper Miocene		 243'-283'
Middle Miocene		 283'-706'
Lower Miocene	••	 706'-1,112'
Upper Oligocene,	micaceous	
Upper Oligocene, g		
The limit of the plan		
e equipment was mov		

the equipment was moved to a new site near Kalimna, where No. 6 bore is in progress.

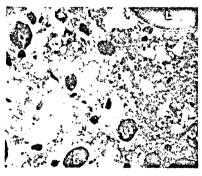
No. 4 BORE, LAKES ENTRANCE.

Pleistocene and Up	pper Plioco	me	to 100'
Lower Pliocene	•••		100'~160'
Upper- Miocene			
Middle Miocene			
Lower Miocene			799'-1,140'
Upper Oligocene,	micaceous		
Upper Oligocene, g			
Lower Oligocene	••		1,484'-1,498'
Basement (granite))		1,508'

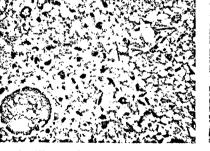
Several samples in the lower parts of this bore were of sufficient interest to warrant having sections cut for microscopic examination. At 1,425 ft. 6 in. the material is a greyish green glauconitic sandstone containing abundant loose and rounded pellets of limonite. A freshly fractured face of the sample has the appearance of high porosity, due to the limonitic pellets being so loose and dropping out, but the rock is probably no more porous in bulk than that from the bores further north and north-east. In thin section (No. 43,586) the material is seen to consist of abundant sharply angular quartz grains less than 0.1 mm. in diameter and some biotite set in a granular aggregate of dull green glauconite, together with circular or oval pellets of limonite which have a maximum diameter of 1.5 mm. Some of these pellets appear to be homogeneous, whilst others have formed by the deposition of concentric layers of limonite round grains of biotite. In only one respect does this material differ to any extent from that recorded in other bores in the district, and that is in the comparative abundance of foraminifera, of which Mr. W. J. Parr has been able to determine at least six genera—Globigerina, Cibicides. Pullenia, Elphidium, Eponides, and Bolivina.

The core from 1,491'-1,494' consists of a soft yellowish brown ironstone almost entirely made up, of replacements of organic remains. In thin section (No. 43,607) the organic remains appear as limonitic replacements of parts of polyzoa, foraminifera, shells and echinoid spines, set in a matrix of siderite and calcite. At 1,494 feet (section 43,609) the rock is a ferruginous sandstone and organic remains are rare. Quartz grains occur in two distinct groups-fairly abundantly as small angular fragments less than 0.1 mm. across, and sparingly as sub-angular or oval grains ranging from 0.5 to 1.5 mm. in diameter. Limonite is moderately abundant, both interstitial and in the form of the concentrically coated pellets, and other minerals present include small amounts of glauconite, biotite in various stages of alteration to chloritic material, highly decomposed felspar, and fragments of granite, all set in a sideritic and calcarcous matrix.

The bore entered solid granite at 1,508 feet, and a piece of core 3 inches long was obtained before drilling was suspended at 1,508 ft. 6 in. (section No. 43,612). The rock has a mottled appearance, due apparently to the pink colour of the orthoclase felspar and the faint greenish tinge of the plagioclases, and it does not closely resemble the pink granite that is quarried north of Lakes Entrance at Colquhoun. The minerals present are quartz; orthoclase felspar altering to kaolin; plagioclases (principally oligoclase) with prominent zoning; microcline; biotite altering in part to chlorite; apatite; and ilmenite or magnetite. Potash felspars, and the rock is a true biotite granite similar to that found at the bases of the No. 2 L.E.D. and No. 1 Government bores.



Glauconitic sandstone 1.425 ft. 6 in., No. 4 bore, Parish of Colquhoun. Angular quartz grains set in glauconitic matrix. Note rounded pellets of limonite (L).



Hard, siliceous limestone at 1,155 ft. 6 in., No. 5 bore, Parish of Colquhoun, showing rounded segration of glauconite enclosing fragments of quartz.

Hard siliceous limestone, 1,217 ft.,No. 5 bore, Parish of Colquhoun. Similar to hard band at 1,155 lft. 6 in. but without segregations of glauconite.



160



43

Traces of free oil were recorded in the glauconitic series at 1,441 and 1,443 feet, but the upper part of the series was apparently quite dry. On completion of this bore the plant was removed

On completion of this bore the plant was removed to a site at Holland's landing in the Parish of Bengworden South where work is now in progress.

No. 5 Bore, MARINGA CREEK.

The site of this bore is on the north bank of Maringa Creek, approximately 1 mile south-south-westerly of the Kalimna West Post Office and State School (Parish of Colquhoun). The stratigraphic sequence has been determined as follows:—

Pleistocene and I	Tpper Pliocenc	e	10'-70'
Lower Pliocene			80'-120'
Middle Miocene	••		130'-700'
Lower Miocene	••		710'-1,060'
Upper Oligocene,	micaceous se	ries	1,070'-1,228'
Upper Oligocene,	glauconitic se	ries	1,228'-1,249'
	N	•	(last sample).

Scout Drilling plant at Maringa Creek.

The bore reached a depth of 1,255 feet, but the last 6 feet of core was not recovered after the rods broke and left an obstruction in the hole. The thickness of the glauconitic series at this point is therefore in doubt, but is not less than 21 feet.

One feature of the micaceous series in this bore was the unusual number of nine hard bands, from 4 to 12 inches thick, nearly double the number hitherto recorded in other bores. At 1,155 ft. 6 in. to 1,156 ft. 6 in. (section 43,738) the hard band is a fine grained grey siliceous limestone containing abundant fragments of angular quartz less than 0.1 mm. across; some irregular shaped and some oval segregations of grassgreen glauconite up to 1 mm. in diameter, enclosing fine fragments of quartz and biotite; moderately abundant small flakes of biotite mostly altered to an emerald green chloritic material; and organic remains; all set in a very fine calcarcous matrix. The organic remains include foraminifera, polyzoa, and a sponge spicule. At 1,217 feet (section 43,745) the material is a buff coloured limestone almost identical with that at 1,155 ft. 6 in. except that the segregations of glauconite are absent.

W418

The boring plant has now been removed to a site near the mouth of Lake Bunga.

GIPPSLAND OIL COMPANY.

This company is holder of Petroleum Prospecting Licence No. 68, embracing an area of 10,227 acres between Lakes Entrance and Metung. The following notes on the prospecting activities are compiled from the reports supplied by the company to the Department supplemented by personal inspections, examination of the core samples, and some analyses made at the Mines Department laboratory. The accompanying section C-A shows the relation between the information gained by the company's two bores in the Parish of Bumberrah and that obtained by the Nos. 1 and 2 bores of the Point Addis Company (vide *Records of Boring Operations* 1923-30, pp. 35 and 116). The section indicates the existence of a very gentle southerly dip not exceeding about 3 deg. and rather less than that on the average.

No. 1 BORE. W418

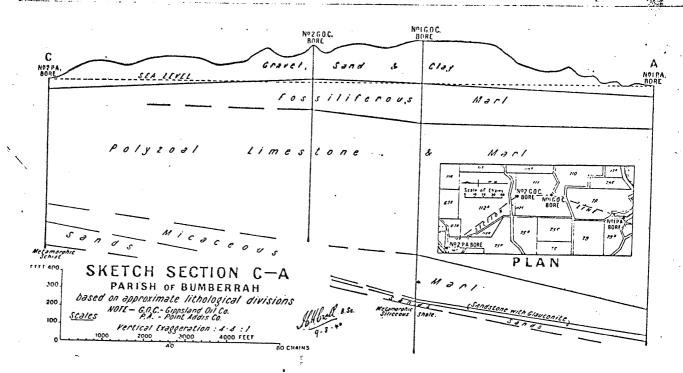
Drilling commenced at this bore, the site of which is shown on the plan, on 28th February, 1939, and at the present time is reported to have reached a depth of 1,766 feet. The surface level is 255 feet. Samples 235of the cores have been submitted to the Department as $5 < c^{13} < c^{13}$ requested, and the following summary is based on an (50, p)examination of the samples. (Note.-The depths are those shown on the sample labels.):-

To 250' 250'-463'	••	Sand and clay.
500'-1,200'	••	Shelly marl. Polyzoal limestone.
1,216'-1,373'		Micaceous marl.
1,446′-1,458′	••	Grey-green soft sandstone with some glauconite.
1,458′-1,462′	· • •	Hard grey sandstone with a little glauconite.
		Fine and coarse loosely com- pacted white quartz sand
		and clayey sand. White quartz sand with chips
		of grey shale and sandstone.
1,484′		Grey siliceous metamorphic shale with fine quartz
Below 1,484'	•••	veinlets. Samples of shale, or sand mixed with chips of shale.

161

162

MINING AND GEOLOGICAL JOURNAL



It is quite clear from the samples that drilling beyond the depth of 1,484 feet, where the first definite bedrock sample was obtained, cannot be justified as far as the search for oil is concerned.

The glauconitic sandstone obtained in this bore at 1,446 to 1,458 feet is comparable with the Lakes Entrance material, but appears to contain more clay and less glauconite. Extraction tests for oil on several Extraction tests for oil on several samples gave completely negative results. The hard sandstone from 1,458 to 1,462 feet is similar to that in the Nungurner bore (see above), and has been similarly grouped with the more typical glauconitic material in constructing the section. A slide of the hard sandstone at 1,460 feet shows it to consist of abundant grains of angular quartz of an average width of 0.2 mm., less abundant rounded grains of quartz up to 1.5 mm. diameter, biotite in various stages of alteration to chlorite and glauconite, pale green aggregates of glauconite, and some calcareous cementing material.

A number of fossils obtained from the loose sands below the glauconitic beds included several small we'll preserved sharks' teeth, fish scales, and some pyritic replacements of corals and mollusca.

Water.

The first water horizon was reported at 290 feet, but apparently no sample was taken until the bore had reached 705 feet. Analysis of a sample marked "705 feet" resulted as follows (Lab. No. 400/1939) :---

Sodium.—165 parts per million—24 per cent. Chlorides.—250 parts per million—36 per cent. Sulphates.—Not tested. Carbonates and bicarbonates.—96 parts per million —14 per cent.

Concentration .- 690 parts per million.

This water has a lower concentration than the upper water at Lakes Entrance, but the proportions of the radicles present, as far as the analysis was carried, are approximately the same.

The lower water horizon was encountered in the vicinity of 1,462 feet, although the volume of water did not appear to be nearly as great as in many other bores. The surface level of this bore precludes the possibility of an artesian flow, and the water did not rise beyond 55 feet above sea level. Partial analysis of a sample of the lower water gave the following result:--

Chlorides.—830 parts per million—41 per cent. Sulphates.—Nil.

Carbonates and bicarbonates.-640 parts per million-32 per cent.

Concentration .--- 2,020 parts per million.

The concentration in this case is somewhat higher than the Lakes Entrance lower water, but the chemical characteristics agree fairly closely, particularly in the entire absence of sulphates.

Gas.

A non-inflammable gas was reported at 175 feet, and analysis showed it to contain 11 per cent. of carbon dioxide and nitrogen, the remainder of the sample being air. Inflammable gas, probably methane, was recorded at various depths, and was in greatest abundance associated with the lower water.

MINING AND GEOLOGICAL JOURNAL

September, 1940

Oil.

20

The company reported that the first traces of oil were obtained when drilling was in progress between 637 and 705 feet. At a depth stated to be 1,484 ft. 6 in. a faint film of oil was seen by me on the water brought up in the bailer while cleaning out after the first few inches of bedrock had been entered. While the bore was at the same depth the casing was pulled back and small quantities of oil were obtained, apparently from the sands immediately above bedrock where the company had reported "struck oil" at 1,482 feet. The occurrence of oil at the base of a series which here and elsewhere is completely saturated with water is most unusual.

No. 2 BORE. W430 GIPPSCARD -This bore is also situated in allotment 111, Parish of Bumberrah, as shown on the accompanying plan, and operations commenced on 30th November, 1939. Surface level is 225 feet. The company's weekly reports indicate the following general sequence:

To 208' ... Sand, clay, and gravel. 208'-372' ... Shelly marl. 372'-1,106' ... Polyzoal limestone and marl.

The present depth is reported to be 1,106 feet, at which it is stated that the limit of the plant has been reached, but that arrangements will be made to continue operations when a heavier plant is available.

Water.

The company reported that the first (upper) water horizon was met at 208 feet, and a sample marked "216 feet" was analysed at the Mines Department laboratory with the following result (Lab. No. 323/1940):--

Chlorides.-370 parts per million-32 per cent.

Sulphates.—30 parts per million—3 per cent. Carbonates and bicarbonates.—310 parts per million—26 per cent.

Allowing for the inclusion of suspended solids in the figure for concentration, the water is comparable in concentration to the Lakes Entrance upper water, but has a lower sulphate content.

Gas.

A sample of gas marked "1.083 feet" was analysed (499/400), and shown to contain:—

Carbon dioxide	••		Trace
Oxygen	••	• •	1%
Nitrogen	••	• •	/0
Methane	••	••	47.9%
			100.00/
			100.0%

(The company has since stated that this sample was obtained from 1,738 feet in No. 1 bore.)

Gas was first reported at 500 feet, and at irregular intervals thereafter.

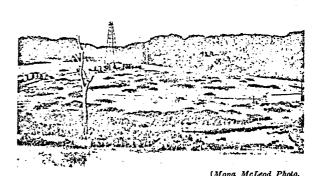
AUSTRAL OIL SYNDICATE.

FOSTERS BORE. W402

This bore was drilled in 1936 to a depth of 1,259 ft. 10 in., and some oil was produced by pumping. After a period of suspended operations during the time that the Imray bore was in progress, work was resumed at Fosters bore early in 1940, and an attempt has been made to shut off the water that was entering at the bottom of the bore. A cement plug was built up to 1,259 feet, and it is reported that bailing tests conducted since then indicate that at least a partial shut-off has been effected.

IMRAY BORE. W404

Bailing tests are conducted from time to time to determine the amounts of oil and water accumulating against the hydrostatic head of the fluid in the bore.



Fosters Bore, Lakes Entrance.

			3th May.			13th .	
Top of fluid col	սոու	481 feet f.	rom surfac	е	388 fe	et from	surface
., " water co	lumn	1,174 _,,	., ,,	••	1,154 ,	• • • •	,,
Depth of oil co	umn	693 feet	••	••	886 fe	et	
,, ,, water Amount of oil	column	100 "	••		120 ,		
Amount of oil	• ••	849 gallon		••	1,074 g	allons	
Time of accumu	er	122.5 ,,	· •	••	147 47 w	,,	
Time of accumu	ilation	38 weeks	, 4 days		47 w	eeks, 2	days
Rate of accumu	lation—						
011		22 0 gall	ons per w			gallons	per week
Water	••		,, da ., w ., da	eek	3·2 4·1 0·6	, 	,, day ,, week ,, day.

(NOTE.—The syndicate states that (a) the depth of the bore is 1,274 feet, (b) accumulation commenced on 17th August, 1939, and (c) 49 gallons of water were removed on 15th October, 1939.)

These figures suggest that my previous estimate of the formation pressure (vide *Mining and Geological Journal*, Vol, 2, No. 1, July, 1939, p. 64) was too low, as the rise of the fluid to a height of more than 800 feet in the bore cannot be accounted for by the pressure of artesian water, which apparently has not yet entered the bore. [16.7.1940.]



163

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3.0 Weekly Drilling Reports

Appendix **3**. 0

Weekly Drilling Reports

Page 10762 MINES DEPARTMENT: · W418 Victoria. MINES (PETROLEUM) Section 45. • (24. MAR.-Record of work at ... Gippsland. Oil. Company ... NO., 1. ... bore on ending March, 4th, 1939 Description of Strata Depth The strate is composed of yellow clay carrying sand and gravel. The only noticable change occured between the 50 and 55 foot level where the ratio of sand and gravel to clay increased and was slightly cemented. The color at this point was lighter. 80 feet Almost a grey. 13. د . .. د د ten in arrest . . - . . . · 4 . Qiĝo: 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) No notes. a sax 1 m c and to shall the Ma . C. tool - Costor GIPPSLAND OIL COMPANY LIMITED Signed owhileCoy Legal Manager Date 24./. ? a Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

EXTRACT FROM MINES (PITROLEUM) ACT 1935.

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2/62 MINES DEPARTMENT. (24 MAR Victoria. (PETROLEUM) ACT MINES 1935 Section 45. · Record of work at ... Gippsland Oil Company ... NO. 1.... bore on ending ... March, 11th 19 39 Depth Description of Strata 80 - 85 foot - Yellow clay carrying reddish sand 175 feet and finely flaked mica. 85 - 90 foot - Yellow sandclay with small amount brownish sand. 90 - 95 foot - A mixture of steel grey and yellow clay giving a mottled appearance. Very little sand. 95 - 106 foot - Same as 90 - 95 foot except that a stone about a pound in weight, well water worn was picked up. 106 - 112 foot - Steel colored plastic clay free from sand, 112 - 122 foot - Almost pure red sand carrying mica . Picked up red sand stone about one pound in weight, well water worn. 122 - 135 foot - Mottled (yellow and grey) clay carrying fine to coarse sand. 135 - 140 foot - Yellow clay carrying a large percentage of sand. 140 - 158 foot - Loose aggregate of water worn a sand and gravel, Dry. 158 - 159 foot - Steel grey plastic clay free from abrasives. 159 - 175 foot - Coarse sand carrying small percentage of yellow clay. L

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

Lashing of tool string causes formation to fall in. Will be necessary to run casing.

Run 168 foot 6 inches 8" o.d. casing.

A pocket of gas was struck at the 175 foot level. A kindler was saturated with petrol and passed over the top of the casing after it had been ignited. The gas extinguished the flame instantaneously. On sniffing the gas, as it came from the bore, a scratching sensation of the throat resulted. No odor was noticable. The flow being of short duration, no sample could be gotten.

high

Legal Menager GIPPSLAND OIL COMPANY JMITED Date 24.1. 2. 1193.9

- E Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLFUM) ACT 1935.

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MINES DEPARTMENT. Victorsa. 3/62

•	Vieworas.
• <u>MI</u>	NES (PETROLFUM) ACT 1935. Section 45.
Record of w	ork at
	rospecting Licence Number68 during week
	larch, 18th
Depth	Description of Strata
	168'6"-8" casing run. 175 - 180 foot - Coarse sand carrying small percentage of clay. 180 - 199 foot - Fine grey sand with finely flaked mica bound together with a grey clay.
	199 - 248 foot - Yellow clay with sand and
	gravel. Run 8" casing to 186 foot.
	248 - 250 foot - Sandy yellow clay rich in shells.
	shells. 250 - 250'l" - hard sandstone band.
	shells, 250 - 250'1" - hard sandstone band, 250'1" -259 foot - Yellow clay rich in shells,
261 feet	shells. 250 - 250'1" - hard sandstone band. 250'1" -259 foot - Yellow clay rich in
261 feet	shells, 250 - 250'1" - hard sandstone band, 250'1" -259 foot - Yellow clay rich in shells,
261 feet	shells, 250 - 250'1" - hard sandstone band, 250'1" -259 foot - Yellow clay rich in shells,
261 feet	shells, 250 - 250'1" - hard sandstone band, 250'1" -259 foot - Yellow clay rich in shells,
261 feet	shells, 250 - 250'1" - hard sandstone band, 250'1" -259 foot - Yellow clay rich in shells,

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Casing run to 186 foot. Not cemented.

Signed GIPPSLAND OIL COMPANY LIMITEDCoy Legal Manager Date .24

06,00 233,002 02,238 8he355 166555 100070

* Strike out words not applicable.

Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0 EXTRACT FROM MINES (PHIROLEUM) ACT 1935.

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MINES DEPARTMENT. Victoria.

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MINES (PETROLEUM) ACT 1935. Section 45.

Depth Description of Strata 1.1

261 - 290 feet - Grey marl with abundant shells.
290 - 298 feet - Gravel aggregate very well water worn and carrying abundant shells.
298 - 340 feet - Greenish grey shelly marl
with shells.
340 - 355 feet - Brownish grey shelly marl.
400 feet
1imestone.

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Water was encountered at 290 to 298 feet, Bailing for one hour at the rate of 590 gals per hour did not lower level below the 290 foot mark, Sample of water was sent to head office for test.

Advise re shut off of same, Casing run to depth of 357' 82", 8" casing

casing

Legal Manager Date .2.8/.2.4/.2.4

Strike out words not applicable.

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

- - EXTRACT FROM MINES (PATROLEUM) ACT 1935.

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(13. APR.-1939).

MINES (PETROLEUM) ACT 1935. Section 45.

MINES DEPARTMENT. Victoria.

ending ... April, 8th 19³⁹....

Depth

- Description of Strata

528 feet 528 - 530 feet - Polyzoal limes, alternating in color with light to dark grey. Very friable. 637 feet 530 - 637 feet - Light to dark grey polyzoal marly lime. The deeper we drill into this the more puggy it is becoming. On the last run it showed signs of cozing into the bore. M. h. yhten Capatit May May Marine

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

6" casing has been run to 630', $0_4^{3''}$.

On cutting samples of formation the evaporating dish shows a distinct residue of oil.

To date no suitable formation has been encountered on which to seat and cement casing.

Signed

Legal ManagerCoy DateCoy

Strike out words not applicable.

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

EXTRACT FROM MINES (PRIROLHUM) ACT 1935.

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MINES DEPARTMENT. Victoria.

MINES (PETROLEUM) ACT 1935. Section 45.

Record of work atGippsland Oil Company NO.1. bore on * Petroleum Prospecting Licence Number68...... during week Petroleum Mineral Lease

Depth

Description of Strata

6/62

637 feet	637 - 640 feet - Dark grey polyzoal lime. 640 - 647 feet - Light grey polyzoal limy
* *	marl with fragmentary limestone. 647 - 648 feet - Shell band with large oyster
to	shells other mollusca. Polyzoal lime with rich
	creamy colored coral.
• • • • • •	648 - 663 feet - Grey marly polyzoal lime
	with shells. 663 - 690 feet - Dark grey polyzoal lime
	with shells and cream colored coral.
705 feet	690 - 705 feet - Light grey polyzoal lime
A A A A A A A A A A A A A A A A A A A	with first appearance of green streaks. The shells
, N. Per	encountered here are in a state of transition from shell to lime. Shells cannot be recovered from formation
Del	due to their crumbling state.
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And the Constant of the second

Gas increasing and carrying distinct films of oil.

Several, places have been tested for seating casing but sofar none have been firm enough to insure a satisfactory shut off of the water.

Bore cased to $630'-0^{3''}$ with 6" casing.

> Legal ManagerCoy Date/....

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E Strike out words not applicable.

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

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. EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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MINES DEPARTMENT. Victoria.

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MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland Oil Co.... NO. L bore on ending, April, 22nd 1939.... ÷.

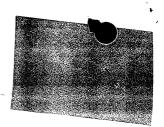
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Depth Description of Strata

Dept	h Description of Strata
705 feet	705 - 725 feet - Grey polyzoal lime with green streaks glauconite .First appearance of glauconitic grains.
•	725 - 738 feet - Dark grey polyzoal lime with remains of large shells resembling the oyster shell.
	few grains glauconite. 738 - 753 feet - grey green polyzoal lime and
	fragmentary limestone. Heaviest coral yet encountered. The coral shafts having diameters up to 3". 753 - 777 feet - Greenish grey marly lime carrying
	streaks of brown with finely flaked mica. 777 - 787 feet - Greenish grey fragmentary limestone.
798 feet	787 - 798 feet - Greenish grey polyzoal marly lime with enough brown to give it an olive green appearance.
	Finely flaked mica. Creamy colored coral. Gas increasing with strong film of oil.
	The second se
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or petr of occu cemente	y Driller in Charge (State in notes, whether water, gas, oleum has been met with, and, if so, give depth and nature rrence, also depth to which casing has been inserted and d. N.B. The Act also requires the Minister to be noti- mediately water, gas, or petroleum is encountered.)
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	in an an an an an Anna an Anna Anna an Anna an
	Signed Must Country -
	Legal Manager Date . AGAER 1939
a Strik	e out words not applicable.
Analyse	s of water, gas and oil should be submitted if available.
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EXTRACT FROM MINES (PETROLPEN) ACT 1935.

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MINES DEPARTMENT. Victoria.

(PETROLEUM) ACT 1935. MINES Section 45.

Record of work at Gippsland Oil Co., NO 1..... bore on

Depth

Description of Strata

793 feet	798 - 803 feet -Greenish grey polyzoal lime with streaks of brown carrying finely flaked mica. 803 - 816 feet -Greenish grey polyzoal marly lime. 816 - 823 feet -Light greenish grey polyzoal lime
	with granular limestone. 823 - 839 feet -Water green polyzoal lime with granular limestone. 839 - 847 feet -Greenish grey polyzoal lime with
858 feet	granular limestone. 347 - 353 feet -Greenish grey polyzoal limy marl with large quantity of brownish coral giving the core a brown appearance. Few grains of water worn grave.
	M.h.

Notes by Driller in Charge (State in notes, whether water, gas, or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.)

Volume of gas slightly increasing as bore isdeepened. Formation too tight to expect much gas.All gas bubbles carry heavy oil film.

Bore is now cased to 830'-5" with 6" casing.

1.... Signed

..Coy

* Strike out words not applicable.

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

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EXTRACT FROM MINES (DETROLFUM) ACT 1935.

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MINES DEPARTMENT. Victoria. 9/62

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<u>MIN</u>		<u>LEUM) ACT</u> <u>cn 45</u> .	1935.
Record of wo	rk at Gippsland	Oil Co., NO L	bore on
* Petroleum Pr Petroleum Mi	ospecting Licence	Number	2 during week
	. May, 13th 1939		
Depth		Description of St	rata
858 feet	shells and few gra 864 - 866 fee 866 - 884 fee 834 -886 fee slightly cemented 886 -892 fee 892 -905 fee 905 -905'3" 905'3"-907 907 -923 fee	et-Pure white granu et-Green marly poly -Pure white granu -Dark green lamina -Same as above. -Hard shell band. -Light green polyz	alar limestone. zoal lime. lar limestone ted polyzoal marl. coal lime with shells. polyzoal marly lime.
	924 -940 feet 940 -9 60'1" flakes of mica.	-Hard blue limesto	ne band with large
	grains. 952 -960 feet marl with glauconi 960 -975 feet	-Dark grey laminat te. -Green limy marl w	nth glauconite.
977 feet	975 -977 feet	-White granular li 052 feet distinct f	mestone. 'ilms of oil showed
		M.	hourse and here and her
and the second second	n alla	fth m	- Iman'
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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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

二白江 1 sett our. U Signed

unit Sunit Sunit Sunit

Legal Manager Date .18. MAY.1939...

* Strike out words not applicable.

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

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EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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Section 48. Every licensee and every lossee, 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 comenting one of more strings of the casing in clay or other waterimpervious 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.

· · · · · · · · · · · · · · · · · · ·	68 10/62
	MINES DEPARTMENT. Victoria.
	MINES (PETROLEUM) ACT 1935. Section 45.
1	Record of work atGippsland Oil Co. NO 1 bore on
¥]	Petroleum Prospecting Licence Number68 during week
(ending June, 10th 19 ³⁹
-	Depth Description of Strata
13/5/39.	977 - 995 feet - Dark grey laminated marl carrying small
amou	nt of sand and finely flaked mica.
13/5/39	995 -1004 feet - Green polyzoal limy marl and sand.
	1004-1012 feet - Green polyzoal limy marl.
20/5/39.	1012-1014 feet - Pure white granular limestone.
	1014-1023 feet - Dark grey laminated marl with sand and mica.
, 	1023-1034 feet - Green limy marl with small shells.
27/5/29.	1034-1036 feet - White granular limestone.
27/5/39.	1036-1040 feet Dark grey laminated polyzoal marl.
21/0/004	1040-1047 feet - Bluish green polyzoal limy marl with small
	shells and fine sand.
	1047-1054 feet - Green polyzoal limy marl, fragmentary limestone and small shells.
	1054-1056 feet - White granular limestone.
	1056-1061 feet - Bluish green polyzoal limy marl with fragmentary
	limestone.
	1061-1065 feet - Bluish green polyzoal marl, fragmentary limestone
	and fine sand.
3/6/39.	1065-1072 feet - Bluish green polyzoal limy marl, fragmentary
0/0/000	limestone.
	1072-1079 feet - Dark green polyzoal limy marl and sand.
	1079-1089 feet - Bluish green polyzoal limy marl. 1089-1090 feet - White granular limestone.
10/6/39.	1090-1096 feet - Grey laminated limy marl.
10/0/000	TOBO-TOBO LEEC - GLEY TUILING TUILY MALT.
	He.L.

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

Bore is cased with 6" casing to a depth of 1061 feet.

At 1036 feet, formation heaved from the bottom. Whec cased two foot beyond this point no more heaving occured. A slight caving of the walls occured from this point to 1061 feet. No caving noticable after this depth.

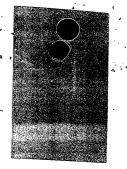
Casing free in bore.Can be turned by hand when lifted out of slips.

When core is cut with chloroform a heavy residue of oil ins in evaporating dish, Signed GIPPELAND OIL COMPANY LIMITED. remains in evaporating dish, Mer broll

14 Legal Manager Directory 14 JUN 1939 Ruth óin ...Secretary # Strike out words not applicable.

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



EXTRACT FROM MINES (PHEROLEUM) ACT 1935.

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Section 19. (1) (a) The holder of a licence shall employ in arilling 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.

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(3) In the event of the continuance of drilling operations after water has been encountered as aforesaid, the hclder of the licence shall shut off all water so encountered and take such other steps as may be prescribed.

- <u>- - 5</u> - 5

(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 may be approved by the Minister.

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MINES DEPARTMENT.

MINES (PETROLEUM) ACT 1935. Section 45.

Victoria

Record of work at ...Gippsland Oil Company NO.1..... bore on * Petroleum Prospecting Licence Number68...... during week ending ...June, 17th 1939..... 19

Depth

Description of Strata

1096-1103 feet-Fragmentary lime stone with bluish green polyzoal marl.

1103-1111 feet-Dark green polyzoal limy marl. 1111-1120 feet-Dark grey laminated marl with small shells. 1120-1122 feet-White granular limestone. 1122-1131 feet-Greenish grey polyzoal limy marl.

Temperature of formation was taken at 1118 feet. When heat transfer, due to water in bore, was calculated the temperature of strata at that depth was 115 degrees F.

Normal temperature at that depth should be 87 degrees F.

A temperature gradient will be taken at intervals of ten feet from now on.

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

Bore is now cased with 6" casing to 1104'5".

Cores, with Baker core barrel, taken every ten foot

GIPPSLAND OIL COMPANY LIMITED

.....Director Uth Countrel hest Sacretary Signed

Legal Manager . Coy

Strike out words not applicable.

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

EXTRACT FROM MINES (DETROLEUM) ACT 1935.

Section 19. (1) (a) The holder of a licence shall employ in arilling 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.

(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

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MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland Oil Company NO.1... bore on * Petroleum Prospecting Licence Number ...68..... during week Petroleum Mineral-Lease endingJune, 24th, 1939.... 19

Depth

Description of Strata

12/12/

1131

.70

Nor brock

1131-1137 feet-Greenish grey polyzoal marl with few bi-valves. 1137-1148 feet-Grey laminated marl with sand and small shells. Small amount finely flaked mica. 1148-1156 feet-Dark green polyzoal limy marl with fragmentary limestone. 1156-1158 feet-Greenish polyzoal limy marl with few bi-valves. 1158-1159 feet-White granular limestone. 1159-1164 feet-Greenish grey polyzoal limy marl containing large number of bi-valves, some heavy coral, sand and a few crystals of pyrities. 1164-1170 feet-Greenish grey marl.

Bit is evidently working in the transition from the middle Miocene to the lower Miocene.

Note: Elevation of ground level at bore is 245 feet above sea level.Not 205 as originally stated // A

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

Bore is cased with 6" casing to 1140' 10"

GIPPSLAND OIL COMPANY LIMITED

.....Director attion the Secretary

....Coy

Legal Manager Date .30 JUN 1939

x Strike out words not applicable.

at the

Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0

Signed

EXTRACT FROM MINES (PETROLEUM) ACT 1935.

Section 19. (1): (a) The holder of a licence shall employ in arilling 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.

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(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

(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 helder of the licence shall shut off all water so encountered and take such other steps as may be prescribed.

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0-0-0-0-0-0-0

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13/ 62

MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland Qil Co. NO. 1..... bore on Depth Description of Strata 1170 1170-1177 feet-Brownish grey polyzoal marl with finely flaked mica and sand. 1177-1181 feet-Same as above except that a small amount of black sand appears in the sediments. 1181-1183 feet-Dark grey laminated polyzoal marl.Some mica and black and reddish sand, 1188-1196 feet-Brownish green limy marl with few grains glauconite and fine sand. 1196-1203 feet-Brownish grey sandy marl with small shells. 1203 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) Bore is cased with 6" casing to 1177'10". Gas has increased in volume and films of oil are showing stronger on trench. Ground temperature at 1200 foot level was 118 degrees F. to Nor broom GIPPSLAND OIL COMPANY LIMITED Director Signed

Strike out words not applicable.

X on premium in

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

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Legal M

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Date ...7. JUL 1939...

Secretary

Section 19: (1) (a) The holder of a licence shall employ in arilling 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.

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EXTRACT FROM MINES (PETROLEUM) ACT 1935.

(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 hclder of the licence shall shut off all water so encountered and take such other steps as may be prescribed.

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(PETROLEUM) MINES ACT 1935. Section 45.

Record of work at Gippsland Oil Company NO.L ... bore on * Petroleum Prospecting Licence Number63...... during week ending ... July., 8th ... 1939..... 19

Depth

feet.

Description of Strata

14/62

1203

1203-1206 feet-Brownish grey sandy marl with shells. 1206-1216 feet-Hard green greyish marl. 1216-1226 feet-Brown micaceous sandy marl. 1226-1235 feet-Greenish grey formminiferal sandy marl.

1235

Temperature of ground at last mentioned depth is 117 degrees F.

Core, taken at 1226 feet with baker core barrel, when cut with chloroform showed a distinct residue of oil in evaporating dish, but not enough to warrant testing the strata. Also strata is too tight to carry any quantity of oil.

Bore is cased with 6" casing to 1215' 62".

Anticipate reaching the glauconite sands at about 1475

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

GIFFELAND

To. Max broll

COMPANY LIMITED Director Signed Secretary * Legal Manager Date **14.701 1939...** · . Coy

Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0

EXTRACT FROM MINES (PRETROLEUM) ACT 1935.

Section 19, (1) (a) The holder of a licence shall employ in arilling 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.

(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

(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. - 1 . . .

(3) In the event of the continuance of drilling operations after water has been encountered as aforesaid, the hclder 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 may be approved by the Minister.

(5) In the event of preliminary tests indicating the probability of payable petroleum, the holder of the licence shall -

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(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.

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MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland Oil Company NO.1. bore on

Depth

Description of Strata

15/02

1235

1260

V. mem 1235-1240 feet-Hard grey marl containing coral and large shells. 1240-1245 feet-Dark grey micaceous sandy marl with small shells and coral.Large crystals of pyrities.

1245-1251 feet-Brownish grey shelly micaceous marl with fine sand and large nodules of pyrities.

1251-1260 feet-Brownish grey micaceous foraminiferal shelly marl with pyrities.

Temporary holdup in drilling for a couple days on account of broken cants in bandwheel.

Starting this week quantative analyses will be made of each core to accertain the amount of oil strata is carrying.Equipment has just arrived on the field for this purpose. The percentage of oil is definitely increasing.

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

Bore is cased with 6" casing to 1227'6".

Ground temperature at 1260 feet calculated at 118 degrees F

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GIPPSLAND OIL COMPANY LIMITED

Signed July Rectweer Host sacary

Legal Manager .. Coy Date .!

Strike out words not applicable.

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

EXTRACT FROM MINES (MEROLEUM) ACT 1935.

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Section 19. (1) (a) The holder of a licence shall employ in ariling 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.

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(5) In the event of preliminary tests indicating the pro-bability 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.

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MINES (PETROLEUM) ACT 1935. Section 45.

Depth

Description of Strata

16/102

Æ

3804

1260

1276

1260-1261 feet-Brownish grey micaceous shelly marl with

pyrities. 1261-1263 feet-Dark brown micaceous marl.Sands consist mainly of limestone and silica.Dark color due to iron, At 1261'6" a sand stone band ½" thick was cored.

1268-1271 feet-Dark brown micaceous sandy marl with pyrities. 1271-1276 feet-Bwownish grey foraminiferal sandy marl with pyrities.

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

fied immediately water, gas, or petroleum is encountered.) A quantitative test was made of the sandstone band at 1261'6". The sample was dried for 24 hours at atmospheric temperature. 25 grammes was then weighed out and treated with 25cc chloroform to dissolve the soluble hydrocarbons. The solution was then filtered and evaporated. The evaporating dish was was again weighed. The increase in weight being 0.300 grammes, interpreted as 1.2 per cent by weight of oil.

Bore is cased with 6" casing to 1269'61" PPSLAND OIL COMPANY LIMITED

Three days drilling time lost during week. Signed Legal Manager Date July . A.

Strike out words not applicable.

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

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EXTRACT FROM MINE (DETROLEUM) ACT 1935.

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<u>Section 19</u>. (1) (a) 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.

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MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland. Qil. Co., NQ.1..... bore on ending ... July, 29th, 1939.... 19

Depth Description of Strata

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Thursday at 5 p.m.

. .

1276 1294 1276-1281 feet-Brown mice ceous sandy marl with shells. 1281-1290 feet-Brownish grey shelly sandy marl with pyrities. 1290-1294 feet-Dark brown micaceous marl.

Due to break in the main sheft of drilling plant on Tuesday noon, no drilling progress was made between that time and

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

Temperature gradient showing a constant rise of 1 degree F. for every 40 foot of depth.

GIPPSLAND OIL COMPANY LIMITED

Director

Legal ManagerCoy - Date/.../....

a Strike out words not applicable.

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

EXTRACT FROM MINHS (PHIROLEUM) ACT 1935.

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<u>Section 19</u>. (1) (a) 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.

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MINES (PETROLEITM) Seation 45. <u>ACT 1935</u>.

Record of work at Gippsland Oil Co. NO. 1, bore on

у 1. т. т. т. т. ending August, 5th, 1939... 19 Description of Strata

Depth

1.11

1294

1315

1294-1297 feet-Grey marly micaceous sandstone with pyrities and large shells. 1297-1302 feet-Dark brown sandy micaceous marl with pyrities. 1302-1312 feet-Dark brown and greenish grey sandy micaceous marl.Large shells metasomatrically replaced by glauconite.Some quartz crystals. 1312-1313 feet-Dark brown micaceous marl containing large amount of iron stained sands and some fish scales. A few large shells. 1313-1315 feet-Greenish grey sandy matl.

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

Bore cased with 6" casing to 1283'12", Hole under-reamed and casing free.

Third shift started at midnight Sunday night.

h GIPPSLAND OIL COMPANY LIMITED

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Legal Manager[#]Coy Date/.../....

a Strike out words not applicable.

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

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•65.22. EXTRACT FROM MINNE (PETROLEUM)

ACT 1935.

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Section 19. (1) (a) 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.

(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

(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 hclder 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 may be approved by the Minister.

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Section 48. Every licensee and every lassee, 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.

(PETPOLEUM) ACT 1935. Section 45. MINES

Record of work at Gippsland Oil Co., NO. 1..... bore on * Petroleum Prospecting Licence Number 68..... during week ending August 12th 1939 19 Description of Strata المجاري مؤرثتي المريم المريم المريم المريم المريم المريم المر والم الحالي المريم المريم المريم المريم الم Depth 1315 1315-1316 feet-Hard fine grained greenish grey shelly limestone. 1316-1326 feet-Greenish grey sandy marl with shells and fish scales. 1326-1334 feet-Dark brown sandy micaceous marl with shells and pyrities. 1334-1340 feet-Dark brown and fawny grey shelly micaceous sandy marl with thin band of limestone. 1340-1345 feet-Light brown shelly micaceous sandy marl and pyrities. 1340-1345 Ieet-Brown micaceous sandy marl. 1350 ' 1.1 من د د د 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) From the 1345 foot level globules of oil are appearing on the trench with the slurry. Bore is cased with 6" casing to 1312'11". Casing is free in bore. Under-reaming when there is any doubt as to whether bit is cutting to full gauge. Temperature gradient remaining constant at 1 degree F. increase for every 40 foot of depth. Temperature at 1350 feet is 122 degrees F. 122 degrees . .

Signed

19/102

Date/..../....

* Strike out words not applicable.

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

EXTRACT FROM MINNE (PHTROLEUM) ACT 1935.

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MINES DEPARTMENT. Vieworis.

<u>MINES (PETPOLEUM) ACT 1935.</u> <u>Section 45</u>.

Depth Description of Strata

1350

1390

1350-1365 feet-Brown micaceous sandy marl with pyrities and shells. 1365-1375 feet-Brownish green shelly micaceous marl and pyrities. 1375-1385 feet-Dark greenish grey shelly micaceous marl. 1385-1390 feet-Hard greyish brown 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

While under-reaming bore on Friday, leg of under-reamer broke of in bore. An attempt is being made to recover same. If not successfull within a reasonable time we will procede to drill it up. Except for the loss of time, this will not interfere with the continueing of the bore.

GIPPSLAND OIL COMPANY LIMITED SignedDirector-Legal Manager..... Secretary

Date/..../....

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* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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MINES DEPARTMENT. <u>Vicsoria</u>.

MINES (PETROLEUM) ACT 1935. Section 45. Record of work atGippsland Qil Co. NO.1..... bore on

ending ... August, 26th 1939... 19 Depth Description of Strata

1390 1405 Depth 1390-1391 feet-Fawny colored sandstone with shells. 1391-1400 feet-Dark brownish shelly foraminiferal micaceous marl. 1400-1405 feet-Dark brown micaceous sandy foraminiferal marl.

21/62

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

Not having been successful in recovering the broken part of the under-reamer from bore, same was drilled up.Started to make new footage on Friday. Bore is in good shace and casing free.

Gas and oil showing is very incourageing. GIP Station OIL COMPANY LIMITED Director Local Monegore States Coy

Date/..../....

a Strike out words not applicable.

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

XTRACT FROM MINES (PETROLEUM) ACT 1935.

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MINES (PETPOLEUM) ACT 1935. Section 45.

Record of work atGippsland Oil Company NO. L. bore on * Petroleum Prospecting Licence Number68...... during week -Petroleum Minepal LeaseendingSeptember. 16th... 1939.....

Depth

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 Description of Strata

22/ 62

Bore was cemented off on 8/9/39 at the depth of 1449 feet and is now standing

OH OOMPANY LIMITED Signed Legal Manager Date .

x Strike out words not applicable.

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

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

EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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23/62

MINES (PETPOLEUM) ACT 1935. Section 45.

Record of work at Gippsland Oil Company. NO. 1... bore on ending September. 23rd... 1939.... Depth Description of Strate

Description of Strata

Bore standing cemented. Will start opening up on 25/9/39.

HR.h.

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

Legal Manager

Date ./

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GIPPSLAND OIL COMPANY LIMITED Signed p.f....

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a Strike out words not applicable.

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

ACT 1935. EXTRACT FROM MINES (PETROLEUM)

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24/62 MINES DEPARTVENT. Victoris. MINES (PETPOLEUM) ACT 1935. Section 45. Record of work at Gippsland Oil Company NO. 1 ... bore on * Petroleum Prospecting Licence Number68...... during week ending .September 30th 1939.... 이 있는 것 같은 것 것 같은 것 같은 것 같은 것 같은 것 같은 것은 것은 것은 것은 것은 것이다. 이 가지 않는 것이 있는 것이 가지 않는 것이다. 이 가지 않는 것이다. 같은 것은 것은 것은 것은 것은 것은 것은 것은 것은 것이 것 같은 것이 있는 것이다. 이 것이 가지 않는 것이 것이 것이 것이다. 것이 것 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 있는 Depth Description of Strata After drilling out cement which was left inside of caseing, the amout of same being 8 inches, the casing dropped approximately 1449 amout of same being 8 inches, the casing dropped approximately six inches fracturing the cement on outside of casing causing the job to be unsuccessful. On attempting to core farther in order to find another band upon which to seat casing we found that during the process of under-reaming and cementing the piece of steel from the under-reamer leg which had been sidetracked higher up had become dislodged and was again in the bottom of the bore. While trying to either drill it up or again sidetrack it into the formation the bore was deepened to a depth of 1456 foot 4 10 . . . into the formation the bore was deepened to a depth of 1456 foot during the week. ಿಸಿ ಸಂಸ್ಥೆಯಿಂದರೆ, ಸಿಲ್ಲಿಯ್ಯ ಸಂಸ್ಥೆಯನ್ನು ಆಕ್ಷಣ್ಯವನ್ನು ಸಾಕ್ಷಣಿನ ಸಂಸ್ಥೆಯಿಂದ ನಿರ್ದೇಶದ ಸಿಲ್ಲಿಯನ್ನು ಕ್ಷಣೆ ಕೊಡುಕೆಕೆ ಸಾಸ್ಟ್ರಿಕ್ಕೆ ಮೇಲ್ಗಳ ಕಡೆಸುತ್ತನ್ನು ಅವರಿತ್ಯ ತಿನ್ನಾಗಿ ಸಿಲ್ಲಿಯ್ಯ ಸ್ಥಾರ್ ಸ್ಥಾಯಿಂದ ಸಾಕ್ಷಣ್ಯ ಸಿಲ್ಲಿಯಿದ್ದರು. ಹಿಂದು ಸಿಲ್ಲ ಸಿಲ್ಲಿಯಾಕ್ಸ್ ಸಿಲ್ಲಿಯಾಗಿ ಸಿಲ್ಲಿಯಾರ್ ಮುಗ್ಗಿಸಿ ಸಂಸ್ಥಾನಕ್ಕೆ ಸಿರ್ವಾಯಕ ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗಿದ್ದರು. ಹಿಂದು ಸಿಲ್ಲಿಯ ಸಿಲ್ಲಿಯಾರ್ ಸಾಕ್ಷಣ್ಯ ಸಿಲ್ಲಿಯಾರ್ ಸಾರ್ಯ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲಿಯಾಗಿ ಸಾಕ್ಷಣೆ ಸಿರ್ವಾಯಿಗೆ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲ ಸಿರ್ವಿಯಾರ್ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾರ್ ಸಾರ್ಯ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ವಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ವಿಯಾಗಿ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾರಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲೆಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ವೆಯಾಗಿ ಸಾಕ್ಷಣೆ ಸಿರ್ದೆಯಾಗು ಸ ಸಿರ್ಮ್ಲಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸಿರ್ವೆಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸಾಕ್ಷಣೆ ಸರ್ವಾಯಾಗಿ ಸಾಕ್ಷಣೆ ಸಿರ್ವೆಯಾಗು ಸಾಕ್ಷಣೆ ಸಿಲ್ಲಿಯಾಗು ಸಿರ್ವೆಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಿಲ್ಲಿಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ದೆಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ದೆಯಾಗು ಸಾಕ್ಷಣೆ ಸಿರ್ದೆಯಾಗು ಸಿರ್ದೆಯಾಗಿ ಸಾಕ್ಷಣೆ ಸಿರ್ದೆಯಾಗು ಸಿರ್ದೆಯಾಗಿ ಸಿರ್ದೆಯಾಗು ಸಿರ್ದೆಯಾಗಿ en en servici para en el destro de la servici de la servici de la compañía de la servición de la compañía de la Enterista académica el constitue de la constituir de la constituir de la constituir de servición de la constitu the second se 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) 1 . 11. (11. $\{\phi_i\}_{i \in \mathcal{I}} \neq \{i\}$ e., j GIPPSLAND OIL COMPANY LIMITED Signed . 1.1.5 Logal Manager . റിസ ____ Date * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

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EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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The plant has

6861-100-01 <u>ACT</u>

25/62

MINES (PETPOLEUM) Section 45.

Record of work at Gippsland Oil Company NO 1 bore on

MINES DEPARTMENT. Victoria.

Depth

Description of Strata

1456

At this depth we entered a soft glauconite into which piece of steel has sidetracked. We started coreing to find hard band and encountered same at

1458 feet. A piece of the core from 1456 to 1458 and a piece of the hard band cored have been forwarded to your office. (Ka7)vagy

1458

Cement was all freed from the outside of the casing and re-seated on the band at 1458 feet. The casing had been pulled back 18 feet. Three short lengths were taken off and one long length substituted in order to gring the top of the casing to the proper level for operation. The casing was again set on bottom and the bore cleaned out preparatory to cementing. The cement was then dumped into the bottom of the bore, the casing filled with water, and on attempting to raise casing to the necessary height in order and on attempting to raise casing to the necessary height in order to get the necessary hydraulic pressure for cementing, the plant was only capable of lifting the casing one foot off bottom. The casing was then lowered to bottom the cement inside the casing was bailed out and while waiting for additional equipment to arive on the field to facilitate the handling of the casing string, the bore will stand untill 9/10/39. It is just possible that enough of cement may have gotten behind the casing to make a temporary shutoff. This will be tested on 9/10/39. If a temporary shutoff has been effected I will notify the Mines Dept., so that your Mr.Crolle can come to the bore to witness further coring.

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

Strong flow of gas was encountered at 1456 feet, interfering with bailing operations when water had been bailed to within 200 feet of bottom. L DEFI DALLED TO WITHIN 200

GIPPSLAND OIL COMPANY LIMITED Signed Legal Manager Date Monte Office Date Strong Contection Date Strong Contection

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Analyses of water, gas and oil shculd be submitted if available. 0-0-0-0-0-0-0

EXTRACT FROM MINES (PETROLEUM) ACT 1935.

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(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

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- (a) immediately report thereon to the Minister in writing; and
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<u>Section 48</u>. 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 waterimpervious 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.

MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at Gippsland. Qil. Company. NO. 1..... bore on

Depth

Description of Strata

26/62

1458

On Monday,9th,following the re-cementing, the bore was opened up and tested for the water shut-off. The water was then bailed from the bore and allowed to stand for 24 hours. At the end of that period it was again bailed an found to be making water at the rate of 6 gallons per hour. This was considered sufficient for a temporary shute off. During the process of bailing we had some trouble with the plant which caused a delay of about one day.

Your Mr.Croll arrived on the field on Friday afternoon. On coring into the glauconite we found the formation very badly broken up.The first 11 foot of the glauconite was normal such as is found on the rest of the Lakes Entrance field.The broken part consisted of a very hard flinty glauconitic rock with quartz grains, this together with fine to coarse sand and glauconite with quartz grains.The broken rock, the fractured edges, of which, was sharp and showed no signs of erosion, ranged from, in size, that of a pea to fragments weighing possi bly a pound in weight.In this material we found very good specimens of carbonaceous material.At 1460 foot we encountered an apparently unbroken band of only a couple inches in thickness under which we found apparently the same broken condition except that the carbonaceous material, spoken of above, had the form of an opalized or petrified wood.Perfect specimens of which Mr.Croll and myself retained, together with a couple of skark teeth.

Due to this formation caving into the bore no further progress of coring was made during the week. This however will be taken care of and coring will be continued on Monday, 16th.

I think the glauconite series, that we are now in, is showing an altered condition from any of the heretofore logged sereies in this district, Should this prove to be correct, then, very valuable information should be obtaind.

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

So far, the glauconite series is dry.A very strong flow of gas was encountered between the 1456 and 1458 foot levels. This however was shut off on re-cementing the casing at the 1458 foot level

Signe Manager .Coy Date

* Strike out words not applicable.

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

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1462

СТ MINES (PETROLEUM) Section 45.

Record of work at ... Gippsland Oil Company NO.1.... bore on ending ... October, 21st. 1939. 19 and including 23/10/39

Depth

Description of Strata

27/62

1462

1462-1464-Lost core out of barrel. 1464-1465-Greenish brown mottled micaceous sandy marl with glauconite and quartz grains.

1465-1468-Lost core.Bailer indicated same as 1464-1465. 1468-1471-Could not hold core in barrel so run earth socket. This showed fine to coarse sand with glauconite, pyrities, chlorite, mica, and quartz. 1471-1475-Fine silti sand with carbonaceous material. 1475-1476-Quartzy sand and gravel, with greenish marl. 1476-1477-Brown micaceous sandy marl.

1477-1480-Lost core from barrel. 1480-1482-Lost core.Bailer showed sandy formation with quartz grains,

mica, chlorite, glaucoaite, and carbonaceous material. When we resumed operations on *Hunston* morning, oil had made its appearance in the bore. I then reported that oil had been struck at 1482 foot. I then drilled ahead one foot to make a seat for the casing and encountered a hard band. A core of this was taken and it showed to be a band of hard greenish brown sandstone embedded with carbonaceous material. The gas pressure at this time was very strong. The water level at times would be raised to within 160 foot of the surface and then subside to its normal level of 255 foot. This indicates a surging gas. The casing was cemented at 1483 foot. It will stand cemented untill Monday, October, 30th., at which time we will clean out the bore and bail dry. The bore will then be drilled one foot ahead of the casing and a water shutoff test made. If satisfactory, coring will be continued. All

Bitumen was picked up by the bailer at the # 1482 fout level - somple retained M. E.

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Signed GIPPSLAND OIL COMPANY LIMITED Legal Manage Date 2.5. /. 10. /. 0.

E Strike out words not applicable. Analyses of water, gas and oil should be submitted if available.



MINES (P-E-T.P.O.L.E.U.M) Section 45. СΤ 1935.

Record of work at Gippsland Oil Company NO.1.... bore on

ending .November.4th.1939..... 19

Depth

Description of Strata

3 .

Bore stood cemented from 23/10/39 to 30/10/39.

1482



30 + 39 ,

1483-1484-Fine to coarse quartzy sand with pyrities.Pieces of 1483-1484-Fine to coarse que bitumen, and free oil showing. 1484-----Band of grey shale.All fragments of this shale showed and large radius. 1485-1495-Fine quartzy sand.caving badly.Casing was run to 1490 feet. 1495-1500-Brown micaceous sandy marl. 1500-----Stopped on sandstone band of which we got core.

· Ant, All the above formation carried bil and an attempt to produce same will be made if further exploration work proves this to be the main accumulation. However the bitumen which we are picking up in the present formations is possibly a residue of filtration and indicates. the possibilities of a much larger accumulation of oil in the immediate nearness below. immediate nearness below. Your Mr.Croll was at the bore from 31/10/39 to 4/11

/39.

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at the dud not our our of the second 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

6 inch casing run to 1490 feet. Gas and oil showing freely.

> · GIPPSLAND OIL COMPANY LIMITEDDirector Signed Secretary Logal Manager

a Strike out words not applicable.

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

(PETPOLEU-M) Section 45. MINES A.C.T 1935

Record of work at Gippsland Qil Company. NO.1.... bore on Petroleum Prospecting Licence Number63..... during week ending 11/11/39...... 19

Depth

150

Description of Strata

1500

1504-1505-Dark brown carbonaceous sandstone. 1505-1506-Dark brown laminated micaceous material, having the appearance of a carbonaceous shale. 1506-1510-Fine floury grey sand that heaves badly. 1510

Progress is slow due to the heaving sands. Casing is free and easily handled, so will have no trouble in continueing with

the drilling.

1500-1504-Dark brown sandy carbonaceous clay.

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

Bore is cased to 1510 foot with 6" casing.

Gas is showing with quite a pressure, and oil is very much in evidence in the bailer.

GIPPSLAND OIL COMPANY LIMITEDDircctor

entrey Secretary 1Coy Legal Manager. Date '.

* Strike out words not applicable.

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

3962 MINES DEPARTMENT. <u>Victoria</u>. MINFS. (PETROLEUM) ACT 19 Scotton 45. Record of work at Gippsland Oil Company NO. 1.... bore on * Petroleum Prospecting Licence Number 68 during week ending November 18th Depth Description of Strata 1510-1515-Fine to coarse grey sand with pyrities, quartz grains, 1510 carbonaceous material, and fossils. 1515-1518-Brown carbonaceous sandstone with fossils. 1518-1533-Brown sandy micaceous formation with carbonaceous material and fossils interbedded with thin bands of sandstone. 1533 well from 1510-1515 the formation heaved badly.Formation stood A. alan Alan Sara Alan Sarata Alan Sarata d · . and the state of the second · · · 2• . . . (1) And the second sec second sec 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) Bore is cased with 6" casing to 1533 foot. . . 14. heavy gas pressure throughout, with oil showing Have had all the way. and the second 1:1 and a statistical state of the st الم المحمد ال المحمد Signed . Legal ManagerGIPPSLAND OIL COMPANYCHMIDED Date a Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

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MINES DEPARTMENT. <u>Vieveria</u>. (BETROLEUM) 01 1935. MINIS A Section 45. Record of work at Gippsland Oil Company NO.1.... bore on ending November, 25th 1939.... Description of Strata. Depth 1533-1542-Brown sandy micaceous formation with carbonaceous material and marine fossils. 1542-1543-Brownish grey sandstone. 1533 1542-1543-Brownish grey sandstone. an an a starr 1543-1544-Brownish grey fine sand, 1544 . . . Due to plant trouble, three days work constituted the weeks rk. work. Ç a S. 6.2 · · · · · · · a second - All All All ...

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

Bore cased with 6" casing to 1542 feet.

Gas very strong with oil showing all the way

Signed

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

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MINES DEPARTMENT. Vicsoria.

32/62

NES (PETPOLEUM) A Section 45. MINES 1935. AC

Record of work at Gippsland . Qil Co., NQ. L.... bore on

·* 8, . ante 20 est tot becaptor Description of Strata Depth

1544 1544-1549-Brown marly sand with carbonaceous material and shells. 1549-1550-Soft brown sandstone thickly embedded with shells. 1550

Due to the bad weather, during the week, very little was accomplished. Bore cased with 6" casing to 1542 feet

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ราวสรีสาร กรรมมามีมาร์สารริจากสารของ ถูกกรรมการสารริกาศ สารหาริมาณา มาร่างมีกรุ่งก็ระการ และ โอการหรือสารสารย์ - อิมาณา กรีรุณาณา (รากร์ภาณิ์ และไม่สารผิดว่า สารมาณ) สำนัก และสินแก่สารสารริจากสารกรรมการที่จากสารกรรมการมากสารกรรม (สารมาณา) และรั้งจากมีสารประสารสารกรรมการที่จากสารกรรม (สารมาณา) และรั้งจากมีสารประกาศสารไปจะปฏิการสารสารกรรม (สารมาณา) สารที่สารกรรม (สารมาณา) เหตุรีกรุ่ง ในสะการประสารสารไปจะปฏิการสารสารกรรม (สารที่สารกรรมสารที่สารกรรม) (สารมาณา) •••j 1. 1. 200

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Notes by Driller in Chargo (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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petrolaum is encountered.)

1. S. C. C.

Signed Legal Manager AND OIL COMPANY LINITED Date 1.6.2

a Strike out words not applicable.

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

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	MINES DEPARTMENT. Victoria
	MINES (PETROLEUM) ACT 1935. Section 45.
,	Record of work atGippsland Oil Company NO.1 bore on
1	* Petroleum Prospecting Licence Number68 during week
	ending December, 9th 19 39
	Depth Description of Strata
1550	1550-1553-Brown micaceous carbonaceous sandy marl rich in lime and small shells and other marine fossils.
1555	1553-1555-Dark brown sandy carbonaceous formation with small shells resembling or might be foraminifera and rich in other marine fossils.
-	Samples of formation when brought to surface contain oil. Gas, as before, is strong.
•	The 6" casing which had been run to 1542 foot became very tight and most of the week was used up in freeing it, and pulling 8" for NO 2 Bore. The casing has now been freed and under-reaming of the un-reamed portion is in progress. When this is completed drilling will be resumed.
	Cores of latest formation are being forwarded to your
	Mr. Croll.
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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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

134 foot of 8" casing was taken from NO 1 Bore and placed in NO 2 Bore. NO 1 Bore is now cased with 8" to 223 foot.

berley Signed

* Strike out words not applicable.

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

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34/62 MINES DEPARTMENT. Victoria MINES <u>ROLEUM)</u> Section 45. Record of work at . G. ppsland. Oil. Company ... bore on * Petroleum Prospecting Licence Number during week ending December' 16th 1939 Depth Description of Strata No drilling progress was made during this week due to the shifting sands. As soon as 5" Casing arrives on the field drilling will be resumed. 2: 16 - March 22: 2: 16- March 2: 3: 16- March 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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.) 85 foot of 8" Casing remains in No 1 Bore. 217-11" hoving been withdrow for use In No 2 Bore Signed OIL COMPANY I Logal Mana**yerQUEEN ST: MELBOURNE** Date/ # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

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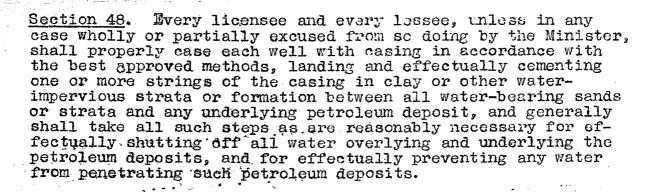
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MINES DEPARTMENT. Victoria. EUM) MINES OL 1935. Section 45. Record of work at GIPPS ! and Oll C.D. ... N.G. bore of * Petroleum Prospecting Licence Number .6.8..... during week ending 23-12-3.9. 19 Depth Description of Strata 1555 - No operations corried out during this Period. pending negotiations for 5" cosing and its arrival on the field. 1156 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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.) GIPPSLAND OIL COMPANY LIMITEL Director Secretary Legal Manager ..Coy .1.40 # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

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Section 19. (1) (a) The holder of a licence shall employ in arithing 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. ومهدر الدريجية المهداد الديجانية المحتديين والمتهماتين الجاريين

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36/62 MINES DEPARTMENT Victoria. MINES (PETROLEUM) CT 1935. Section 45. Record of work at . A.P. P.S. land. ail. Co. Ma. bore on * Petroleum Prospecting Licence Number during week Description of Strata Depth operations due to Holidays 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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.) GIPPSLAND OIL COMPANY LIMITED Signe .,Coy Legal Manager Date # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available.

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MINES DIPARTMENT. Visgoria. 1935. (PETPOLEUM) ACT MINES Section 45. Record of work at Gippsland. Oil Co. M.C. bore on • Depth. Description of Strata · · · · · · · · · No operations. Waiting 5" cosing. Ma the second second $(1,1) \in \mathbb{R}^{n}$ المتعيوم na na serie a serie de la construction de la construction de la construction de la construction de la construct Care de la construction de la const Care de la construction de la const 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. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) 1 : 2 1110 2.1.1.1.1 ******* Sec. 18 GIPPSLAND OIL COMPANY LIMITED •• . Director Signed Secretary .1. \mathcal{O}Соу Legal Manager Date a Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

MINES DEPARTMENT. Victoris.

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(PETPOLEUM) Section 45. MINES ACT 1935.

Record of work at . Gippsland Cil Companies NO 1 bore on

Depth Description of Strata

1555 foot.

No footage was made during the week while waiting on 5" casing. g. The five inch has now been delivevred on the field and

COME

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COV

The five inch has now been delivevied on the at this writing 16/1/40 is being run. Should be able to start drilling on Friday of this week. · · · · · . .



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

This bore cased with 6" casing to 1543 foot.

. . .

Cased with 8" casing to 57'12"

>

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a Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

Signed

Legal Manager

Date

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39/62 MINES DEPARTMENT. Victoria. (PETROLEUM) MINES CT Section 45. Record of work at ... Gippsland Oil Company NO.1 bore on ending January .. 20th 1940..... • Depth Description of Strata 1555-1558-Dark brown micaceous sandy marl with fossils. 1555 The fifther the second of the second 1558 **. .** . After the five inch casing accived on the field last week most of the time was consumed in running the casing, cleaning out the bore, and remeasuring the depth. Only a couple hours drilling time remained. STREET STREET A set of the set of ÷ ÷ i s w y 27. A. A. enter a companya da 20110 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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.) 5" casing run to 1553' 11". Signed Logal ManagerAND CIL COMPANY LIMITED Dates QUESN ST. MELBOURNECOY at 1 40 # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

TO STAR EXTRACT FROM MINES (DETROLFUM) ACT 1935.

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Design Broken Care

40/62 MINES DEPARTMENT. Victoria, MINES (PETROLEUM) ACT 1935. Section 45. Record of work at Gippsland Oil Company's NO 1... bore on ending January, 27..... 19⁴⁰..... -3-FEB 1940 Depth Description of Strata 1558 feet. During the week no drilling progress was mede on this bore as it became necessary for revissions to the plant. However at this writing 30/1/40 the bore stands drilled to 1575 foot and is drilling nicely. 6 foot of hole being made in the last 3 hours. . 1.4 2 5 ι. a '. · . · 5. Sec. 5 K2 1 6.24 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. N.B. The Act also requires the Minister to be noti-fied immediately water, gas, or petroleum is encountered.) Signed YLIMITED OIPPSLAND ON ICO Legal Manager Wetwert MLLAURNCoy Date/ # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available.

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EXTRACT FROM MINES (DETRODAUM) ACT 1935.

Julie .

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MINES DEPARTMENT. Victoria.

MINES (PETROLEUM) ACT 1935. Section 45.

Record of work atGippsland Oil Company...NO. L... bore on * Petroleum Prospecting Licence Number62..... during week Petroleum Minoral Lease ending ...February, 3rd 1940....

Depth

Description of Strata

41/62

1558 1558-1564-Brown micaceous sandy marl with shells, 1564-1565-Pure greyish green laminated soft shale. 1565-1569-Fine to coarse sandy marl with small shells and shark teeth. 1569-1575-Greenish grey laminated shale.tough.

3.



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

1565-1569 feet.Strongest flow of gas so far encountered in thi s bore and carried a strong petroleum odor and distinct showing of oil.

5" casing run to 1562' 3".

Am mudding off sands after drilling through them and carrying bore full of salt water to hold formation back.

The appearance of the bore at this time is very satisfactory and interesting. GIPPSIAND OIL COMPANY LIMITED Legal Manager Date

Strike out words not applicable.

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

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Service of the servic Section 19. (1) (a) The holder of a licence shall employ in ariling 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.

EXTRACT FROM MINES (PEROLEEM) ACT 1955.

(b) All cores or samples so obtained shall be preserved by the holder of the licence for a period of not less than twelve months.

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MINES (PETROLEUM) ACT 1935. Section 45.

MINES DEPARTMENT Victoria.

Record of work atGippsland,Qil.Company.NO.L. bore on * Petroleum Prospecting Licence Number63..... during week endingFebruary 10th 19 40....

Depth

Description of Strata

42/62

35**5833**53

1575 1587 1575-1576- Sandy grey shale. 1576-1580- Soft greyis green shale. 1580-1587- Sandy grey green marl.

On Thursday the casing shoe on the 5" casing became oval which held up operations untill the arival of swage from melbourne.

At this writine 14/2/40 casing shoe has been repaired and drilling resumed.

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

5" casing run to 1570 ferty

Signød ANY LIMITED GIPPSLAND O'L CON

Legal ManagerDirector Date.....Director # Strike out words not applicable.

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43/62 MINES DEPARTMENT. Victoria. MINES ETROLEUM) С T Section 45. Record of work at Gippslord Gil Company NO. 1.... bore on Petroleum Prospecting Licence Number during week 荛 Description of Strata Depth 1587-1595-Light green shale. 1595-1599-Sandy green shale. 1599-1603-Greenish blue sticky shale. 1587 1603 By referring to specimen logs of the Coalinga Field in California, which you probably have, You will find that this bore is very similar, Especially of section 27 of that field. To my knowledge no other bore in this diatrict has been so similar to any other producing bores as this one. 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 N.B. The Act also requires the Minister to be noticemented. fied immediately water, gas, or petroleum is encountered.) 5" casing to 1570 foot. dy shale. Gas and tar oil showing i 121 Sacreian SignedCoy Legal Manager' Date # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0-0

44/ MINES DEPARTMENT. Victoria MINES (PETROLEUM) ACT 1935. Section 45. Record of work at ... Gippsland, Dil Comany NO. J. bore on -Petroleum-Mineral-bease-Description of Strata Depth n an Anna an An Anna an I have no record of this weeks log. I was absent from the field for two weeks and this log was not kept in my absence. I know no drilling of any consequence was done as work on plant prevented drilling operations. ill there 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 in-serted and cemented. N.B. The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Signed Legal Manager Coy. Strike out words not applicable. Analyses of water, gas and oil should be submitted if avail-able. -0-0-0-0-0-0-0-0-

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AS AMENDED BY THE MINES (FETROLEUM) 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.

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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 (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.

45/62 and the second second second MINES DEPARTMENT. Victoria. (PETROLEUM) Section 45. A.C T 1935. INES Record of work at ., Gippsland Oil Company NO 2, bore on Petroleum Prospecting Licence Number during week Depth Description of Strata 1603-1611- Alternating green to grey shale bands. 1603 Water broke through from behind casing bringing sand into bore. Casing was lowered to 1604 feet shutting off sand. 1611 1811 2.34Notes by Driller in Charge (State in notes whether water, gas or petroleum has been met with, and, if so, give deoth and nature of occurrence, also depth to which casing has been in-serted and cemented. N.B. The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Bore cased with 5" casing to 1604 feet reeary Signed ANY LIMITED Legal Manager Cov. Date .. * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-0-Surge Brown Carlos of مر المراجع المعادية المستعمر عا 1994 من المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع

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46/62 DEPARTMENT. Victoria. TROL Section 45. Record of work at ... Ginnsland Gil Connany. No. 1 bore on Petroleum Prospecting Licence Number during week * __ Petroleum Mineral Lease ending . March, 9th 19.40.... Description of Strata 1611-1623- Hard to soft grey to bluish grey and green shales 1611 1623 with some sand and quartz grains, · 探索、背叛主人的过去。 Without the state in the second 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Bore cased with 5" casing to 1604 feet. Signed ... **IPPSLAND** Legal Manager . (. Date # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. . -0-0-0-0-0-0-

AS AMENDED BY THE MINES (FETROLEUM) ACT 1939,

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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47/62 MINES DEPARTMENT. Victoria. ETROLEUM) 1935. (P ACT ΜI N S Ε Section 45. Record of work at ... Gippsland Oil Company NO.1 bore on Petroleum Mineral Jease ending March, 16th, 1940.... Description of Strata Depth 1623-1643- Alternating Greenish, Bluish, and grey shales 1623 carrying about 2% by volume of water worn sands and quartz grains with small inclusion of pyrities. 1648 working. Drilling progress satisfactory with, only one shif 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Bore cased with 5" casing to 1604 feet. Signed AND 111 Legal (Manag Date eterv Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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.

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- (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 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 waterimpervious 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 (PETRCLEUM) ACT 1939.

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 and, when so required by the Minister, forward the same to the Minister.

48/62 MINES DEPARTMENT. Victoria MINES (PETROLEUM) AC. :5 Section 45. Record of work at ... Gippsland Oil Company NO.1 bore on Petroleum Prospecting Licence Number during week Petroleum Mineral Lease ending .March. 23. 1940.... Depth Description of Strata I648£££££££**648**4**B**6£££ 1648-1657 Hard sandy shale.Large percent of fine to medium 1648 1657 coarse sand. entreen Bore was closed down 20/3/40 on account Easter. and the second • • • • ne novar i se a an di nova se and Aster 2. ... 1月16日 19月1日日午前1月1日(1月1日日)(1月1日)(1月1日) 1月1日(1月1日)(1月1日)(1月1日)(1月1日)(1月1日) ాశుత్ శాజకా గాలె జిల్లిహిండి రాజకా సినియా ని తెరిగితుత్తారు. రాజు జరితి కంటె చెయితా గాలికి 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 in-serted and cemented. N.B. The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) - Mar († 1 Signed Legal Manager Coy. • 4 Date Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. • . • • ~0~0÷0~0~0~

AS AMENDED BY THE MINES (FETROLEUM) 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.

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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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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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49/62 e saven in phase MINES DEPARTMENT Victoria. • MINES TROLEUM) ACT. 1935. Section 45. Record of work at Gippsland Oil Company NO 1, bore on 12 11 - 2 **.** _ Petroleum-Minerel-Loase-ending March 30th 19.40 Depth Description of Strata 1657-1669- Fine to coarse sand bound together with a 1657 shaley material. 1669 Bore was closed down from 20/3/40 to 27/3/40 on account Easter holidays. a de la companya di serie di s Serie di seri and the second 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 in-serted and cemented. N.B. The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Bore cased with 5" casing to 1633, foot. Casing free. Signed .. 1.14 Legal Manager Coy. Date 5 * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 2 **2** -. 1 -0-0-0-0-0-0-0-

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59/62 DEPARTMENT. (PETROLEUM) ACT 1935. Section 45. an internet and the second Record of work at Grapsland Dil. C.a. M.Q. ... bore on Petroleum Prospecting Licence Number during week ending A. P.V. i. 6.14. 19.4.0... . . . Description of Strata Depth 1669-1677 - Hard Sandy Shale. 1669 -1617 1. Lecetory L. Mr. Xlanth Mr. Crole 3 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) GIPPSLAND OIL COMPANY LIMITIED Sigi Legal Manager Coy. * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. But the state of the state of the state of the -0-0-0-0-0-0-

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51/62 ctoria. ROL ACT 1935. UM) Section 45. Record of work at Glapsland. Qil. Co. Mal bore on Petroleum Prospecting Licence Number . C.S.... during week ending A.P.J.L. 13..... 19.49.... Description of Strata Depth 1677- 1687- Alternating Bands. of Shale and 16 77brown the sond stone, and and a constant of a second s STRIGTLOTS. 215 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) GIFESLANU Director Signed A. Olul Secretary 14082 308 COSC DEL DI DI DI DI DI DI Legal Manager Coya * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-



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52/62 APR. MINES DEPAR (PETROLEUM) ACT 1935, Section 45. Record of work at functions . C. C. N. 2 bore on Petroleum Mineral Lease Number during week 년 2016 **원** 전 ending . April. 20th ... 1940 Depth Description of Strata 1687 - 1690' Hard firse grained sandstone with mica 1690 -16916 Compact shale with sand 16916 - 1693 Dank grey sandy shale 1693 - 1696 light given sandy shale ght grey sandy shale 1696' æ, -1697 decomposed 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 in-serted and cemented. N.B. The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Drilling suspended for 12 days whilet splicing new rope on drilling cable & fitting new lange on Bull wheel down. Signed . F. Macdonald st. ingine * Strike out words not applicable y & Decrehary Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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53/62 MINES DEPARTMENT Victoria. TROLEUM) ACT 1935. Section 45. Record of work at futureland Oil C? Nº1bore on ending . April. 27th. 19.4.C. Description of Strata Depth 1697 - 1698 grey sandy shale 1698'- 1700 light goey shale with thin seams of Kaolin Fairly haved sandstone with shaley material 1700 - 1702 -E. H. Macdonald Red T. Engineer 20 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) 5" Casing lowered \$ 0 1666 212 GIPPSLAND OIL COMPANY LIMITED Signed becreta Coy. Legal Manager *****/***** Date Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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54/62 and the second party of MINES DEPARTMENT Victoria. MINES (PETROLEUM) 1935. Record of work at furtherland Oil C? Nº1 bore on Petroleum Prospecting Licence Number during week Depth Description of Strata 1702'-1704 Fairly hard shaley sandstone y stringer. also a withaquart thin layer of Olive green shale. Calcarious shaley sandstone 1704 - 1705 with fair slowing of petrolen gas. Calcarious sandy shale with 1705 -1706 presides enter Writ el. 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) My strong showing of gas and bubbles with films of oil a fairly st baling from the 1705' level. appeared in the slurry when The stratum also showed reaction to Hel generating CO2 but the gragments of shell were too small for classificatio Sand broke in from behind casing at 5 PM on 2-5-A0 9 rose 30' in the hole. The 5" casing was lowered to 1682'4" in an Signed PSLAND DIL COMPANY FRITED. indeavour to shirt it off. Legal Menage . Deader Coy. -E. H. Macdonald Date . . / Aset. Engineer Secretary 0 * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-0-

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55/62 THATTATAT Victoria. A C T 1935. ETROLEUM). NES Section 45. Record of work at fuppeland Cil Co Ny bore on Petroleum Mineral Lease ending / ===== 11th May 19-40 Depth Description of Strata Calcarious shaley sandstone with gty stringers and pyrites 1705 - 6 - 1706 - 6" 1706-6" - 1707-6" Dark green micacious shale 1707-6" - 1709' Dark grey sandy shale 1709' - 1700' 1710 Dark grey shaley sandstone Thin layers of green micaceous 1710 - 1711 shale and grey sandstone with pyrites. Light grey shaley sandstone 17/1 Darker grey shaley sandstone 1713 - 1715 E. A. macdonald Samo Asst. Engineer han Kittaita 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 continue depth and nature of occurrence, also depth to which casing has been in-serted and cemented. <u>N.B.</u> The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.) yas encountered last week still persisting, but slightly lesser quantities. Signed PSLAND OU COMPANY LIMITED. Heto Maconing Coy. Legal Manager Strike out words not applicable. 釆 Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-

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56/62 3. m Croll MINES DEPARTMENT. Victoria. ACT 1935. NES R OLEUM) Section 45. Oir Ce Record of work at . Junhaland nº 1. Botte... bore on * Petroleum Mineral Lease Description of Strata Depth Light grey shaley sandstone with Afy. stringers. 1715-1716 Hard grey sandstone 1716 - 1717 Bluish grey shale with very little 1717 -1720 sand 0-172.2 Dark grey shale 1722 -1724 Dark grey shale 1724 - 1726 Dark grey shall Sec. 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is The Act also requires the Minisencountered.) as Pressure increased at 1724 level & could be in the drain. C. H. Macdonald E Signed SIPPSLAND OIL COMPANY LIMITED Legal Manager. Coy. ...Director Date Secretary Strike out words not applicable. ¥ Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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57/62 he Wrach 3. Mr Croce MINES DEPARTMENT Victoria. مې د د و د د د د د د و د د و د و د د د د ه د د د د و د د و د د و د د و د د و د د (PETROLEUM) MINES ACT 1935. Section 45. Record of work at general Oil C? Nº 1. bore on Petroleum Prospecting Licence Number during week 茇 Petroleum Mineral Lease Description of Strata Depth Dark grey sandy shale 1726-1727 17217 -1728 Dark grey sandy shale 1728 - 1736 Light to dark grey shale E. St. macdonald asst. Enquee 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 in-The Act also requires the Minisserted and cemented. N.B. ter to be notified immediately water, gas, or petroleum is At 1727' level the gas in the strata surged with such violence as to cause the water in the casing to overflow at -she top a sample of this gas was taken I forwarded Chow you g GIPPSLAND OR COMPANY LIMITED aline Signed Minector ROSS Legal Manager A. Q.Secretary Date _..../*****/***** Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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58162 he Carle. 3 Victoria MINES (PETROLEUM) ACT 1935. Section 45. Record of work at fufficiand and Ma. L..... bore on 茇 ending June 127 19.4.9. Depth Description of Strata Dask grey shale 1736 - 1740 Bark grey shall with quarty 1740'-1748' struces 1742 -1745 Dark grey fine grame with quarty stringe 「蛤舎「海洋・蛤」ものできったり、米の、米ガレスカート、シスクもからしたも、シスト 「小麦でなり_{装装}をくだい」、「ここ」「海洋・水気」、ディントにはからった」、モント 1.1.1.1.1.1.1.1 · • E. H. Maedonal Asst. Engin ANT STATISTICS 2σ 0779 成形式 小市社 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. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) sure still person white Signed Legal Manager Coy. * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

AS AMENDED BY THE MINES (FETROLEUM) ACT 1939.

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59/62 MINES DEPARTMENT. Victoria. TROLEUM) MINES Section 45. Record of work at lunhaland Ull C. N. Dore on Petroleum Mineral Lease Description of Strata Depth Light grey freable sandstone with pyortes & lime possibly an form of 1745-1746 Dolomite. Freable light grey sandstone 1746 - 1749 Triable light grey sandstone a then streak of Quartyite -1155 1751 Light grey sandstone with pyrites - Abrill E. H. Macdonald Asst. Engineer Notes by Driller in Charge (State in notes whether water, gas or petroleum has been met with, and, if so, give depth and or nature of occurrence, also depth to which casing has been in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) Signed Legal Manager Vev. •• Clary Strike out words not applicable. ¥ Analyses of water, gas and oil should be submitted if available.

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MINES DEPARTMENT. Victoria.

MINES (PETROLEUM) ACT 1935. Section 45.

Record of work at GIPPSLAND OIL COMPANY'S NO. 1 bore on

ending 15th June 19,40

Depth 1763 feet De

Description of Strata

1755 - 1763 feet - Light grey sandstone with pyrites also Dolonite lime present. The sandstone is constructed of medium sized sand grains and cemented with lime. The formation is friable.

There is a strong pressure of gas but I believe this is coming from the 1724 to 1747 foot level as the present formation is too highly cemented to hold any appreciative yolume?

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

GIPPSLAND OIL COMPANY MITED Director Scretary Signed ... Legal Manager . Coy. Date

* Strike out words not applicable.

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

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61/62 DEPARTMENT. MINES Victoria. M L N.E.S. (P.E T R.O L E U.M) ACT 1935. Section 45. Record of work at 1 STRPSIAND OIL COMPANY'S NO. 1. ... bore on 1766 feet Description of Strata Depth اند. محمد معقق المعتاقية المعتورة بدين وا 1763 - 1766 feet - Friable sandstone cemented with lime. Gas pressure strong but as stated in last report I believe it to be coming from the 1724 to 1747 foot level. When pulling tools from the bore they became jammed four feet off the bottom. So far they have not been extracted from the bore. No serious difficulty is anticipated in freeing them although some delay may be expected until the cause is determined. 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) GIPPSLAND OIL COMPANY LIMITED **a**ctor Signed Legal Manager 100000 Date ... Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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62/62 DEPARTMENT ctoria. 1935. TROLEM). C Section 45. Record of work at GIPPSLAND OIL COMPANY'S NO. 1 bore on Petroleum Prospecting Licence Number during week 箓 Petroxeennxminedalxloase ***** . . . Depth 1766 feet Description of Strata "" Work is being carried on to recover tools from the bore. It was first believed that sand had come in and was the cause of the trouble. A special bailer was employed. Some sand and clay was taken out and the bailer was worked to within a few feet of the bottom of the tool string but this has not freed the tools. main cause of the trouble has not yet been located. It is The possible that one of the jar reins is broken or that the bore has become slightly deflected. This will be ascertained within the next few days after which the recovery of the string should only be a matter of the time it takes to get the necessary fishing tools. 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 in-serted and cemented. <u>N.B.</u> The Act also requires the Minis-ter to be notified immediately water, gas, or petroleum is encountered.) OIL COMPANY LIMITED GIPPSZ Signed .. Coy. Legal Manager Date JT T 1940 * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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Appendix 4.0

Lithology

4.0

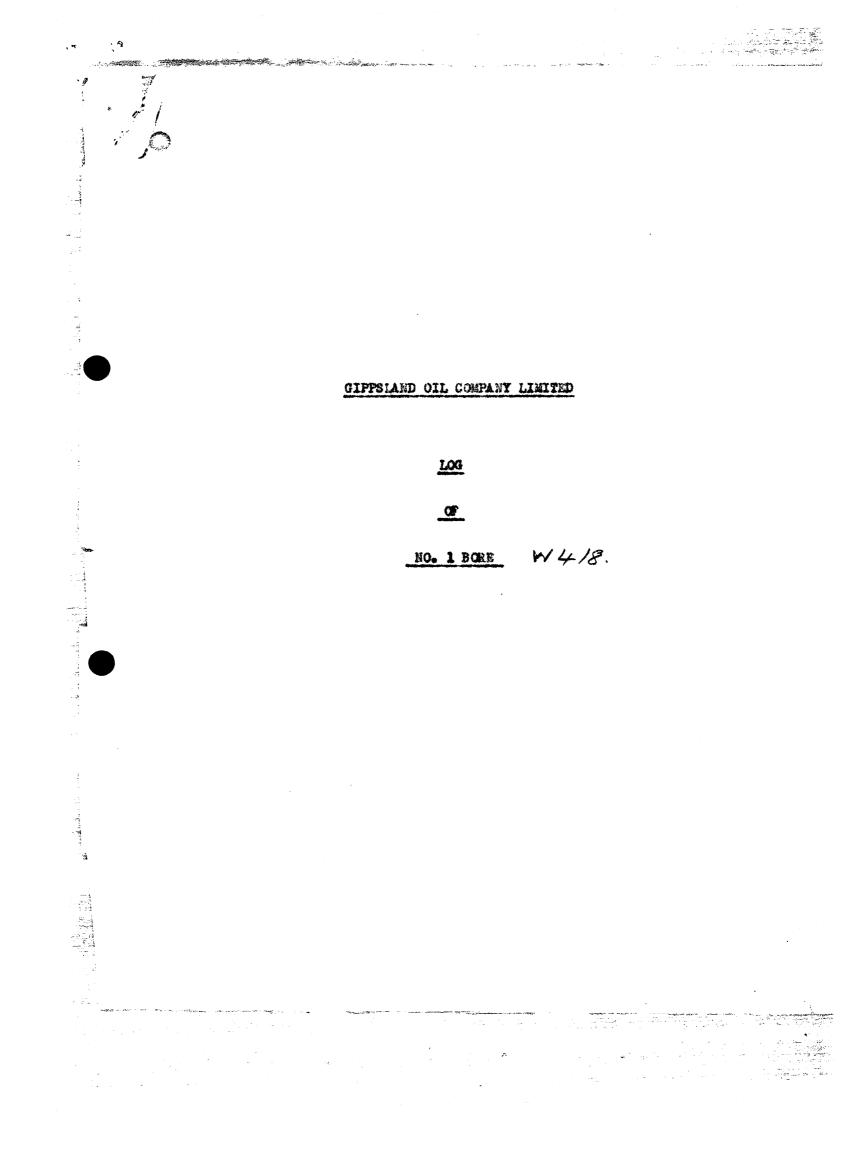
Lithology

0 + 4 capan 1 Cit you them taken for Weeks reports submitted & the longary to the Repentant. Depths (for week). Notes. Report for Vech Ending. at 175' A pocket of gas was struck at the 175 foot 11 Th March 1939. level. A kindler was saturated with petril and passed over the top of the casing after it had been ignited. The gas exterioquished the flame instantaneously. On smiffing the gas, as it came from the the throat resulted. No odown was noticable. The flow being of shortduration, no sample could be got. 8" April 1939. 528-637' On cutting sample of formation the wapourating dish shows a district residue of oil. 15" April 1939 637-705' Jas increasing and carrying distinct film of oil . 22" April 1939 705'- 798 Gas in creasing with strong film of ail. 29" April 1939 798'-858' Valume of gas slightly increasing a Volume of gas slightly increasing as bove is despend. formation too light to expect much gas. All gas buildes Carry Leavy ail film. From 9401'-952' distinct files 1 oil ●13 May 1939. showed in drain during bailing. 10 June 1939 977'- 1096' When cove is cut with Chloroform a heavy residue of oil remains in evopourating dish. 1 July 1939 1170'-1203' Jas has increased in volume & films of oil are showing stronger on trench. 8 July 1939. love takin at 1225 when at with Chloroform showed a distinct residue of oil in surpounding dish, but not enough to warrant testing the strate. Also strate is too light to carry any quantity of ail . 040

15" July 1939 1235-1260'. Starting this week quantation analyses will be made of each core to ascertain the amountof oil strate is carrying. The percentage of ail is definitely increasing. A quantitative list was made of the sandstone band 22 July 1939 at 12616" In sample was dried for 24 hours at almospheric temperature. 25 grammes was then weighed out and treated with 25 ce chloroform to dissolve the soluble hydrocarbons. The solution was then filtered and evapourated. The waporating dish was again weighed. The increase in rolight being 0.300 grammes (intempreted as 1:2 per cent by weight of vil. 12 dug 1939 From the 1345 Jost level globules of oil are appearing on the trench with the slavy. 26 deg 1939 1390-1405. 7th Oct-1939 -Jas and oil showing is very encouraging. Strong flaw of gas was incountined at 1456 ful interfering with bailing operations when water had been bailed to within 200 fet of bottom. 14 Oct 1939 A very strong flow 1 gas was encountered between 1456 - 1458'. This was comented of by Casin's 1480'-1482' After tanton Hole was bailed + next 21 M-OJ- 1931. morning ail officer had made its affectionen + micherdy 23" O.t. in the bore. This reported as at 1482! When coming from 1483 - The gas pressame at this time was very strong. The water level at times would be vaised to within 160 fat of Surface and then subside to it's normal last 1 255 pet. This indicates a surging gas. Bitumen was picked up by the baiter at the 1482 foot level. continued

4 Nov 1939. 1483'-1484' Picas of bitamen + free oil showing. 1982 - 1500 All the formation (1482-1500'El) Camid out. Bas + oil storing freely. 11" Na 1939. 1500-1510' ges is sharing with quite a pressure, and oil is very much in evidence in the barter. 18th 1939. 1510-1533' Have had heavy gas pressure throughst, with oil showing all the way. ges very strong with oil showing all the way. 25 Nov 1939 1533'-1544' Lamples of formation when brought to surface 9 Dec 1939 1550'-1555' Contain oil. yes, as before, is strong. 3 Feb 1940 1565-1569' Strongest flow of gas 20 far encountered in this bore and corrida strong petrole petroleum odour and distinctthowing of oil . 10 7 1 1940. 4ª May 1940 1587-1603 For + lar oil showing in sandy shale (1595'99'Ed) A fairly strong showing of gas bille with films of ail appeared in the slarry ven bailing from the 1705' level. 11° Mg 1940. 17056"-1715' Ses encountered last week still persisting. but in slightly lesser quantities. 18" My 1940. gas pressure increased at 1724 fait level and could be set alight in the drain. 25" Mg 1940. At 172?' level the gas in the strata Surged with such violence as to cause the water in the casing to flowal the top. 1 Jun 1940 1736 - 1745' 15 Jun 1940. -Jas pressure still persisting. There is a strong pressure of gas but I believe this is coming from the 1724 & 1747 foot level as the present formation is two highly amented to hold any appreciable volume. 22 Jone 1940 Jes prissione strong but as stated in last report I belæine it to be from 1724'-1747'. Lat report on file detid 22 your 19x0.

(2)



GIPPSLAND

-1-

NO. 1 BORE W4/8

Yellow clay carrying reddish sand and fine flaked mica

A mixture of steel grey and yellow clay giving a mettled

Same as 90 - 95 feet, except that a stone about a pound in

Almost pure red sand with mica and a red sand stone about

Mottled (yellow and grey) clay carrying fine to coarse sand

Fine grey sand with finely flaked mice bound together with

Gravel aggregate very well water worn and carrying abundant shells. A strong flow of water is carried in this strata and is apparently soft. Bailing at the rate of 550 gls. per hour does not lower the water below the 290 foot level.

Greenish grey shelly marl. Very Puggy. Marl contains a

Folyscal limes. Alternating in color with light to dark

Light grey polyscal mark with fragmontary limestone.

Shell band with large oyster shells and other mollusca.

Greenish grey, puggy, shelly sarl carrying same coral as above.

Oreenish grey marl, puggy, and carrying an abundance of shell with same type of coral. At 412' gas was encountered.

Commenced operations 28/2/1989

Yellow clay with small amount brownish sand

Sandy yellow clay carrying fine gravel

appearance carrying very little cand

a pound in weight, well water worn

Yellow olay, sand, and gravel

Grey marl with abundant shells

Greenish grey shelly marl with shells

Greenish grey shelly impure limestone.

Light to dark grey polyzoal marly lime.

Polysoal lime with cream colored coral.

Grey marly polysoal lime with shells

Yellow clay rich in shalls

Grey marl carrying shells.

Brownish grey shelly marl

Creamy colored coral beds

groy. Very friable.

Dark grey polysoal lime.

form of correl.

Grey coral beds.

White coral beds.

Sandy yellow clay rich in shalls

a grey clay

Hard andstone band

weight, well water worn, was picked up.

Steel colored plartic clay free from sand

Yellow clay carrying a large percentage of sand Loose aggregates of water worn sands and gravel. 2004

Coarse sand carrying small percentage of yellow clay Coarse sand carrying small percentage of clay

Steel grey plastic clay free from abrasives

80 - 85 " 85 - 90 " 90 - 95 " 95 - 106 " 100 - 112112 - 122 * 182 - 185 * 135 - 140 " 140 - 158 * 158 - 159 # 159 - 175 * 175 - 180 * 180 - 199 * 199 - 248 " 848 - 250 " 250 - 250'1" 260' 1" - 259 feet 259 - 261 " 261 - 290 " 290 - 298 *

298 - 340 "

0 - 80 feet

and the second second

340 = 355 " 355 = 400 " 400 = 410 " 410 = 412 " 412 = 450 " 450 = 470 " 470 = 500 " 500 = 528 " 528 = 580 " 528 = 580 " 528 = 580 " 687 = 640 " 647 = 648 "

648 - 663 "

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اللهاية العالمية عند المعالمية المعالمية . 1974 - من الاستريف الاستريف .

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Dark grey polyscal shelly mark with rich crosmy coral. 663 - 690 feet Light crey polyson line. O Hove date in weekf Reputs. 690 - 705 Grey polyscal lime with green streaks of glauconite and tt 705 - 725 first appearance of the glauconite sends Dark grey polyzoal lime with remains of large shells 725 - 788 resembling oyster shells. Fow grains of Clauconite. Grey green polysoal lime and fragmentary limestons. 788 - 758 Greenish grey marly line carrying streaks of brown with 755 - 777 finely flaked mice. 777 - 787 Greenish grey fragmentary limsstons. Greenish grey polyscal marly lime with enough brown to 787 - 798 give it an olive green appearance. Greenish grey polyscal lime with streaks of brown carrying 798 - 803 finely flaked mica. Grey green polyton mrly line. - 4. O.R. read been il gry mt goy green 805 - 816 Light greenish grey polysoal lime with granular limestone. 816 - 823 -Grey green polyscal line with granular limstone. @ 823 - 847 Grey green polyheal lime mark. Large quantity of brown 847 - 858 coral giving the core a brown appearance. Fow grains of water worn gravel. Grey green granular limestone with shells and a few grains 858 - 864 of gravel. U.D.R Les blausmite not gravel. Pure white granular limestone 864 - 866 Green marly polysoal lime. 866 - 884 Pure white granular limestone slightly essented 684 - 886 -Dark green laminated polysoal marl. 866 - 892 Same as above 892 - 905 12 905 - 005*3" Hard shell band 90513" - 9071 Light green polyscal lime with shells Green laminated polysoal limy marl. 907 - 925 foet White granular limestone 925 - 924 Dark groon laminated polyxeal limy marl 924 - 940 Hard blue limestone band with large flakes of mica. 940 - 940'1" Green polyzoal limy marl. Glauconite grains. Films of Oil. 94011" - 952" Dark grey laminated polyzoal marl with glauconite WDR Lo Liny manl. 952 - 960 foot 960 - 975 凯 Green limy marl with glauconite * White granular limestone. W.D. R timely Haked . 975 - 977 Dark grey laminated marl. Small amount of sand with/mica. 977 - 995 995 - 1004 " Green polysoal limy marl, and sand. 1004 - 1012 " Green polyscal liny marl. Pure white granular limestone 1012 - 1014 " Dark grey laminated marl with sand and mica. 1014 - 1023 " Green liny marl with small shells 1023 - 1034 " White gramular limestone. 1084 - 1086 1086 - 1040 " Dark grey laminated polyscal mrl. J.O.P. Landine Bluish green polyscal liny marl with small shells and little 1040 - 1047 " "Sand" not in W.D.R. and. Green polyxoal limy mark with small shells (and sand) also 1047 8 1054 " fragmentary limestone. 1054 - 1056 " White granular limestone. Bluish green polyscal liny mark with fragmentary linestone. 1056 - 1061 " Bluish green polyzonl marl with fragmentary limestone W.S.R. hes fine send to well. 1061 - 1065 "

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1065 - 1072	feet Bluish grown polyzoal marl with fragmentary limestone . M. in W.D.K
1072 - 1079	
1077 - 1089	Bluish green polysoal limy marl with (small amount of) sand Bluish green polysoal limy marl
1089 - 1090	"White granular limestone
1090 - 1096	" Grey laminated liny marl
1096 - 1108	H Program the set of the set of the set
1105 - 1111	" Fragmentary limestone with bluish green polyzoal marl
1111 - 1120	warr fruge holysosi jimy mari
1120 - 1122	The second
1122 - 1131	
	The second from the second start the sec
1131 - 1137	The second se
1187 - 1148	
	amount finely flared mice
1148 - 1156	Dark green polyzoal limy marl with fragmentary limestone
1156 - 1158	areanish polysoni liny marl with few bi - valves.
1158 - 1169	" Hilto gramlar limestone
1159 - 1164	" Dark grey laminated polysoal marl ×
1164 - 1165	" Greenish grey polyzoal marl containing large number bi-valves, ~
	some heavy coral, sand and few crystals of pyrities.
1165 - 1170	" Greeniah grey marl *
1170 - 1177	Brownish grey polysoal marl. Finely flaked mice and fine sand
1177 - 1181	" Same as above except that a small amount of black sand appears
	in the sodiments.
1181 - 1188	
	" Dark grey laminated polyscal (limy) marl. Some mica and black and reddish sand.
1188 - 1196	
	Brownish green liny mark with few grains of glauconite and
1196 - 1203	fine sande
A A	Brownish grey sandy marl with small shells
	Brownish grey sandy marl with shells Hard grow room marl
	Dara groom mari
	Drowl Might Coole Sency maril
1226 - 1285	Greenish grey foraminiferal sandy marl
1235 - 1240 '	Hard grey mari containing coral and large shells
1240 - 1246 '	Dark grey micaceous sandy mark with small shells and corni-
	large orystals of pyrities.
1246 - 1251 "	promising roy sholly mich copus mari with fine sand and lawse
	crystals of pyritics. WOR Ly nodules not crystals
1251 - 1260 "	Brownish grey mice cous forminiferal shally must with most se
1260 - 1261 "	orvailsa grey micaceous shelly marl with avrities
1261 - 1268 "	Dark brown micaceous marl. Sands consist mainly limestone
	and silica. Dark color due to iren.
1261'6"	A band of sandstone at in thickness was cored.
1268 - 1271 "	Dark brown at on soous and war in the the
1271 - 1276 "	
1276 - 1281 "	Brown micaceous sandy marl with shells
1281 - 1290 "	
1290 - 1294 *	Brownish grey sandy marl with chells and pyrities Dark brown micaceous marl
1290*	An additional abount of gas was opened up
1294 - 1297 "	Grev me thy mice account and atom with a state
1297 - 1302 "	
1302 - 1812 "	
	thall a many is contain in a second sharts in The
	shells metasomatically replaced by glauconite. Some quarts
1312 - 1313 "	orystals
	Dark brown micaseous marl containing large amount of iron
	stained sands and some fish scales. A few large shells.

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315 - 1515 foot	Greenish grey sandy marl
1815 - 1816 "	Hard fined grained greenish grey shelly limestone
1316 - 1326 "	Greenish grey sandy marl with shalls and fish scales
1326 - 1354 "	Dark brown sandy micaceous marl with shells and pyrities
1354 - 1840 "	Lark brown and fawny grey shely micaceous sandy marl with
	thin band of limestons
1340 - 1345 "	Light brown shelly micaceous sandy marl with pyrities
1345 - 1360 "	Brown mice coous sendy marl
1860 - 1365 "	Brown micaecous sandy warl with pyrities and shells
1365 - 1378 "	Brownish green shelly micaceous marl with pyritics
1 375 - 13 85 "	Dark greenish grey shelly micaceous marl
1385 - 139 0 [#]	Hard greyish brown marl
1390 - 1391 "	Fawny colored sandstone with shells
1391 - 14 00 "	Dark brownish (groy) shelly formainiferal micaceous mrl
1400 - 1405 "	Dark brown mice secus foraminiferal marl with sand
1405 - 1415 "	Greenish grey sandy marl
1415 - 1420 "	Brownish grey sandy micaceous warl
1420 - 1425	Brownish grey sandy micaceous marl
1425 - 1440 "	Brown micaceous marl with shells
1440 - 1447 "	Brownish grey marl with shells
1447 - 1449	Glauconite sand with shells and grains of quarts
	Commited off at 1449 feet.
	te 9th September, 1939.
	an ant naharmert cane
1456'	Soft formation of glauconits
1458 *	Very hard hand encountered. From 1456 to 1458' gas very strong
1460'	Encountered unbroken band of only a couple inches in thickness
1462 - 1464 foot	Lost core out of barrel
1464 - 1465 "	Greenish brown mottled michoeous andy miceosous sendy marl
	with glauconite and quarts grains
1465 - 1468 "	Lost core from core barrel. Bailer sample indicated same
	as 1464 to 1465.
1468 - 1471 "	Could not hold core in core barrel so run earth socket. This
	showed fine to coarse sand with glauconite, pyrities, chlorite,
	mice, and quirts grains.
1471'	A thin band of greenish brown sand stone (very hard)
1471 - 1478	FIRS ILLY SANG WICH GARDONAGOODS BACGFIRI
1475 - 1476 "	Quartsy sand and gravel, with greenish marl
1476 - 1477	Brown micaccous mandy marl
1477 - 1480 "	Lost core from barrel
1480 - 1482 "	Lost core, but bailer showed sandy formation with arts grains,
	mica, chlorite, glauconite and carbonaceous material. When
5 40.05	we resumed operations, oil had made its appearance in the Bore.
1483*	Hard band of brownish green sandstone. The core showed that
1488 - 1484 feet	carbonaceous material was embedded in the sandstone.
7409 - 1404 IGAL	Fine to cearse quartsy sand with pyrities. Fieces of bitumen and free oil showing
1484'	
7 #0 <i>4</i> .	Band of grey shale. All fragments of this shale showed a curvature of large radius.
1485 - 1496 "	Fine guartey sand.
1495 - 1500 "	Fine donrosy said. Brown micaccous sandy marl
1500'	Sandstone band
1500 - 1504 "	Dark brown sandy carbonaceous clay
1504 - 1504	Dark brown carbonaceous sandstone
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	1				Davis brown lamina tertistical and having the appeared of carbonaccous
	TRAF		1506	Back	Dark brown lamina tody shalo
			1510		Fine floury grey sand heaving badly
			1515		Fine to coarse grey sand with pyrities, quarts grains,
	***	-	AV4V		carbonaceous material, and fossils.
	1618		1518	11	Brown carbonaceous sandstone with fossils
			1535		Brown sandy micaceous formation with carbonaceous material
	****	-	****		and fossils, interbedded with thin bands of sandstone.
	1653		1542	11	Brown sandy micaceous formation with carbonaceous material
		-			and marine fossils
	1642	-	1545	11	Brownish grey sandstone
			1544		Brownish grey fine sand
			1649		Brown marly sand with carbonaceous material and shells
			1560		Soft brown sandstone thickly enbedded with shells
			1558		Brown micaccous carbonaccous sandy marl rich in limos and
		-			small shells and other marine fossils
	1555	-	1555		Dark brown sandy carbonaceous formation with small shells
					resumbling or might be foraminifers and rich in other marine
					fossils.
	1555	-	1558	F\$	Dark brown micaceous sandy marl with fossils.
			1564		Brown micaceous sandy marl with shells.
			1565		Pure groyish green shale in W.D.R. Laminated soft.
			1569		Fine to coarse sandy marl with small shells and shark tooth.
					Gas at this point stronger than any other point in the bore.
					A strong petroleum odor coming from the bore with good
	1569		1575	11	(Fure)greenish grey laminated shale. (Not hard but) tough.
			1576	11	Sandy grey shale
			1580	6#	Soft greyish groen shale
			1687	**	Sandy grey green marl
	1587		1595	61	Light green shale.
	1595	-	1599	4	Sandy green shale
	1599	-	1603	17	Greenish blue sticky shale. In WDR. 1603-1611 Alternations green to grey
_	1611	*6	R		Green and white shaley material. Becoming firmer. Shale bands.
	V 1611	-	1612	軒	Hard light grey shale
	s 1612	-	1614	#	Hard deri: grey shale
	3 1614	-	1616	51	He Soft grey shale with a thin layer of pure white Saolin
	Ý				and course quarts grains
	1616		1618	Ħ	Greenish grey sandy shale
`	👋 1618	-	1619	**	Fine grained sandstone with a little secondary silica
7	5 1619	-	1620	'6 [#]	Greenish grey sandy shale
		16	" - 16	623+	Pairly hard dark grey shale with small inclusions of pyrities
	1623		1648	feet	Alternating bands of greenish, bluish and grey shales, carrying about 2% by volume of water-worn sands and quarts grains inclusion, d.
					about 2% by volume of water-worn sands and quarts grains inclusion of
			1657		Hard mandy shale. Large percent of fine to medium coarse sand
	1657		1669	样	Fine to course sand bound together with a shaley material
	1668		1670	tit	Dark grey sandy shale
					Compact micaceous sandstone
•.	1673				Lighter grey shale with sand and mica developed along the faces
	3		* - 16		Hard fine grained micaceous sandstone
	1679			foet	Light to dark groy shale
•			1685	e	Very hard brown sandstone and hard shale bands alternating
			1687		Hard light brown sandy shale
			1690		Nard fine grained sandstone with mica
	1690	•	1691	6"	Compact shale with sand

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	1691'6" - 1683'	Dark grey sandy shale
	1693' - 1696 feet	Light grey sandy shale
	1696' - 1697 "	Light grey sandy shale decomposed.
	1697' - 1698 "	Grey sandy shale
	1698 - 1700 "	Light groy shale with thin seams of Kaolin
	1700 - 1702 "	Fairly hard sandstone with shaley material
	1702 - 1704 "	Fairly hard shaley sandstone with a quartay stringer. Also a thin layer of clive green shale.
	1704 - 1705 ^u	Calcarious shaley sandstone with a fair showing of petroleum
	1705 - 1708 "	Calcarious sandy shale with pyrites.
	1708*6" - 1706*6"	Calcarious shaley sandstone with quarts stringers and pyrites
	1708'6" - 1707 ⁻ 6"	Dark green micacious shale
)	1707*6" - 1709 feet	Dark grey mady shale
	1709 - 1710 feet	Dark grey shaley sandstone
	1710 - 1711 "	Thin layers of green micacious shale and grey sandstone with pyrites
	1711 - 1713 "	Light grey shaley sandstone
	171 3 - 1715 "	Darker groy shaley andstone
	1715 - 1716 "	Light grey shaley candistone in U.D. R. with quanty strangens.
	1716 - 1717 *	Hard grey sandstone
	1717 - 172 0 "	Bluish grey shale with very little sand
	1720 - 1726 "	Dark grey shale
	1726 - 1727 "	Dark groy sendy shale
	1727 - 1728 "	Dark grey sandy shale
	1728 - 1736 "	Dark grey shale www. D. R. Light is dark.
	1786 - 1760 "	Dark groy shale
	1740 - 1742 "	Dark grey shale with quarts stringers
	1742 - 1745 "	Dark groy fine grained sandstone with quarts stringers between
	1745 - 1746 "	Light grey friable andstone with lime, (possibly in the bould- form of Dolomite because of its reluctance to effervesce MA-~ in cold Hydrochlorie acid. A small amount of) pyrites was MA.
)		also present
	1746 - 1749	Friable light grey sandstone
	1749 - 1751 ^H	Friable light grey sandstone with thin streak of quartists
	1751 - 1785 "	Light grey candstone with pyrites but no line
	1755 - 1763 "	Light grey sandstone with pyrites also Delenite lime present. The sandstone is constructed of medium sized sand grains and commented with lims. The formation is friable.
	1 768 - 1 766 "	Friable sandstone comented with line

to 22nd June, 1940

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GI PPSTAND OIL CO. NO. BORE PARISH OF BUMBERRAH

To 250 feet:

Sand and clay (after Groll, 1940).

250-528 feet:

Grey marl containing shell material, including Turritellids. Polyzoa are more war common towards the base. The microfauna from a polyzoal marl at 463 ft. contains <u>Orbulin</u> <u>universa</u> (not common), <u>Globigerina</u> <u>ouachitaensis</u>-bulloides gp. and <u>Globigerinoides</u> <u>conglobata</u>, and <u>Nonion</u> victoriense. The fauna typifies the Tambo River Formation: the upper limit of this formation could not be ascertained as samples were not available above 453 ft.

El. : 25 At. 235 >

528-1120 feet:

Lithological and micropaleontological evidence indicate that the Gippsland Limestone occurs over this depth range. Because the availability of samples is poor, only approximate subdivisions into members is possible. Typical lithologies are : 528-850 ft.:- grey polyzoal marly limestone containing shell fragments. Microfossils from a sample at 528 ft. include species of the <u>Globigerina ouachitaensis</u>bulloides gp., <u>Rosalina mitchelli</u>, <u>Baggina phillipinensis</u>, and common <u>Elphidium</u> spp., particularly <u>E. crassatum</u>. The lithology and microfauna suggest proximity to the boundary of the Tambo River Formation and the Bairnsdale Limestone Member of the Gippsland Limestone.

A sample from 738 ft. contains common <u>Lepidocyclina</u> howchini, also <u>Globig</u>erinoides triloba, indicating a Batesfordian age. The fauna is somewhat abbraded, indicating conditions of wave-tossing.

It is apparent, therefore, that this polyzoal marly limestone is common to both the Balinsdale Limestone and the Glencoe Limestone.

866-884 ft.:- soft white limestone containing shell fragments and occasional Terebratellids. Pelagic foraminifera include species of the <u>Globigerina ouachitaensis</u>bulloides gp., <u>G. apertura</u>, <u>Globigerinoides triloba</u>; <u>Bkat</u> diagnostic benthonic species are <u>Operculina victoriensis</u> and <u>Cibicides perforatus</u>. It has been previously noted (D.J. Taylor, pers. comm.) that the latter appears to have much the same time range as <u>Astrononion centroplax</u>, i.e. faunal units 5 to 8. The faunal assemblage suggests, therefore, an upper Longfordian age.

892-905 ft.:- mottled brownish grey polyzoal marl. The microfauna from a washed sample at 892 ft. is idential with that from 884 ft.

923-1836 ft.:- interbedded yellowish grey marly limestone and dark brownish grey polyzoal marl. A marl sample from 1120 ft. contains polyzoa, echinoid spines, and occasional molluscan fragments. Foraminiferal species examined include <u>Globigerina</u> <u>apertura</u> (common) and <u>Astronomion centroplax</u>, indicating a Longfordian age; the corresponding rock unit is the Longford Limestone.

1216-1373 feet:

Brown micaceous 'marl'; it is uniform throughout except for a greenish grey sandstone containing mollusca at 1315 ft. and a light grey more sandy 'marl' at 1329 ft. - 31 ft.

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Percentage components of the 'marl', determined by acid solubility, indicate that in this bore it is actually a micaceous mudstone.

 Depth_(ft.)
 Carb.(%)
 Sand(%)
 Clay-silt(%)

 1226
 11.5
 1.1
 87.4

 1302
 14.7
 1.2
 84.1

 1373
 10.4
 0.4
 89.2

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A sample at 1216 ft. contained polyzoa and occasional sponge spicules together with echinoid spines and foraminifera. The latter are not abundant, but the occurrence of <u>Globigerina ampliapertura</u>, <u>G. angustiumbilicata</u> and <u>Gyr oidina zealandica</u> suggest a Janjukian age.

At 1373 ft. the insoluble residue of the mudstone (though small) was observed to containsome grains of partially to completely oxidised glauconite, fine-grained quartz and occasional larger sub-rounded quartz grains, tubular fragments of pyritic material, and common flakes of white, and occasionally green, mica. Fragments of mollusca dhd occasional echinoid spines occur together with foraminifera consisting predominantly of <u>Almaena gippslandica</u>, also <u>Globigerina ampliapertura</u> and <u>Cibicides</u> <u>perforatus</u>. This microfauna typifies the Mic aceous Marl Member of the Lakes Entrance Formation.

1373-1446(?)

1446-1476 feet:

The lithological types are:

1446-1462 ft.:- alternating green clayey sand, gravelly to a small extent, and hard greenish grey glauconitic sandstone.

A sample of the clayey sand taken at 1448-50 ft. proved unfossiliferous; it contains an appreciable amount of gravel-sized sub-rounded quartz grains, most of which are iron-stained.

Croll (1940) reports that "a slide of the hard sandstone at 1460 ft. shows it to consist of abundant grains of angular quartz of an average width of 0.2 mm., less abundant grains of quartz up to 1.5 mm. diameter, biotite in various stages of alteration to chlorite and glauconite, pale green aggregates of glauconite, and so me calcareous cementing material".

1462-1476 ft.:- unfossiliferous glauconitic, micaceous clayey sand. The sediment is somewhat gravelly, and at 1475-6 ft. it ispredominantly a gravel cemented by pale green glauconitic material. A sample taken at 1462-3 ft. contains common block-shaped grains of glauconite showing obvious alteration from mica.

These unfossiliferous glauconitic sediments belong to the Glauconitic Sandstone Member of the Lakes Entrance Formation.

+ 1476-1484 feet:

1476-1477 ft.:- brown grey clayey sand, somewhat gravelly. The sand consists of sub-angular quartz grains, whereas the gravel component contains well-rounded clear quartz grains together with fragments of milky quartz. A few sharks' teeth were observed. Croll (1940) reports that "a number of fossils obtained from the loose sands below the glauconitic beds included several small well preserved sharks' teeth, fish scales, and some pyritic replacements of corals and mollusca".

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1483-1484 ft.:- gravel, made up predominantly of clear and milky quartz grains and fragments of light grey shale.

These sediments represent Boutakoff's 'Colquhoun Gravels'.

<u>1484- feet</u>:

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see following page -puts top of basement

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Hart light grey shale, and micaceous "?sandstones. Obviously a metamorphic basement rock.

B. HOCKING

GIPPSLAND OIL CO. LTD. - GIPPSLAND NO. 1. W418

Well file carries a typed lithological log of this well but on comparing it with weekly Drilling Reports submitted by the compamy several differences were seen. These differences are recorded here and noted on above log.

6908 - 705' in W.D.R:- Light grey polyzoal lime with first appearance of green streaks. The shells encountered here are in a state of transition from shell to lime. Shells cannot be recovered from formation due to their crumbling state.

738' - 753' in W.D.R:- Grey green polyzoal lime and fragmentary limestone. Heaviest coral yet encountered. The coral shafts having diameters up to $\frac{3}{4}$ ".

787' - 798' in W.D.R:- As added note - Finely flaked mica cream coloured coral.

823' - 839' in W.D.R:- Water green polyzoal lime with granular limestone.

839' - 847' in W.D.R:- Greenish grey polyzoal lime with granular limestone.

1159' - 1164' in W.D.R:- Greenish grey polyzoal limey marl containing large number of bi-valves, some heavy coral, sand and a few crystals of pyrites.

1164' - 1170' in W.D.R:- Greenish grey marl.

1611' - 1623' in W.D.R:- Hard to soft grey to blueish grey and green shales with some sand and quartz grains.

1669' - 1677' in W.D.R:- Hard sandy shale.

1677' - 1687'

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Alternating bands of shale and brown sandstone.

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GIPPSLAND No.1 - GIPPSLAND OIL CO. LTD. ~~~~

Oil and Gas shows taken from Weekly Reports submitted by the Company to the Department.

	Report for week ending.	Depths (for week)	Notes.
	11th March, 1939.		A pocket of gas was struck at the <u>175 foot</u> level. A kindler was saturated with petrol and passed over the top of the casing after it had been ignited. The gas extinguished the flame instantan- eously. On sniffing the gas, as it came from the bore, a scratch- ing sensation of the throat resulted. No odour was noticable. The flow being of short duration, no sample could be got.
	8th April, 1939.	528' - 637'	On cutting sample of formation the evaporating dish shows a distinct residue of oil.
	15th April, 1939.	637' - 705'	Gas increasing and carrying distinct films of oil.
	22nd April, 1939.	705 ' - 798 '	Gas increasing with strong film of oil.
)	29th April, 1939.	798 ' - 858'	Volume of gas slight increasing as bore is deepened. Formation too tight to expect much gas. All gas bubbles carry heavy oil film.
	13th May, 1939.		From <u>940'1"-952</u> ' distinct films of oil showed in drain during bailing.
	10th June, 1939	977' - 1096'	When core is cut with chloroform a heavy residue of oil remains in evaporating dish.
	1st July, 1939.	1170' - 1203'	Gas has increased in volume and films of oil are showing stronger on trench.
	8th July, 1939.		Core taken at <u>1226</u> ' when at which chloroform showed a distinct residue of oil in evaporating dish, but not enough to warrant testing the stra- ta. Also strata is too tight to carry any quantity of oil.

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15th July, 1939.

1235' - 1260'

22nd July, 1939.

12th August, 1939.

26th August, 1939. 1390' - 1405'

' 7th October, 1939.

14th October, 1939.

21st October, 1939.

Starting this week quantative analyses will be made of each core to ascertain the amount of oil strata is carrying. The percentage of oil is definitely increasing.

A quantititive test was made of the sandstone band at 1261'6". The sample was dried for 24 hours at atmospheric temperature. 25 grammes was then weighed out and treated with 25 cc chloroform to dissolve the hydrocarbons. The solution was then filtered and evaporated. The evaporating dish was again weighed. The increase in weight being 0.300 grammes, interpreted as 1.2 per cent by weight of oil.

From the 1345 foot level globules of oil are appearing on the trench with the slurry.

Gas and oil showing is very encouraging.

Strong flow of gas was encountered at <u>1456 feet</u>, interfering with bailing operations when water had been bailed to within 200 feet of bottom.

A very strong flow of gas was encountered between 1456'-1458'. This was cemented off by casing.

<u>1480'-1482'</u> Hole was bailed and next morning oil had made its appearance in the bore. This reported as at <u>1482</u>! When coming from 1483':- The gas pressure at this time was very strong. The water level at times would be raised to within 160 feet of surface and then subsided to its normal level of 255 feet. This indicates a surging gas. Bitumen was picked up by the bailer at the 1482 foot level.

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	4th November, 1939	• 1482'	- 1500'	<u>1483'-1484</u> ' Pieces of bitumen and free oil showing. All the formation (1482'-1500 Ed.) carr- ied out. Gas and oil showing freely.
	11th November,1939	• 1500'	- 1510 '	Gas is showing with quite a pressure, and oil is very much in evidence in the bailer.
	18th November,1939	. 1510'	- 1533'	Have had heavy gas pressure through- out, with oil showing all the way.
	25th November,1939.	1533'	- 1544'	Gas very strong with oil showing all the way.
:	9th December,1939.	• 1550₫	- 1555'	Samples of formation when brought to surface contain oil. Gas, as before, is strong.
-	3rd February,1940.	,		<u>1565'-1569</u> ' Strongest flow of gas so far encountered in this bore and carried a strong petroleum odour and distinct showing of oil.
	17th February,1940.	י 1587 י	- 1603'	Gas and tar oil showing in sandy shale (1595'-99Ed.).
	4th May, 1940.			A fairly strong showing of gas bubbles with films of oil appeared in the slurry when bailing from the <u>1705</u> ' level.
	11th May, 1940.	1705161	- 1715'	Gas encountered hast week still persisting, but in slightly lesser quantities.
. •	18th May, 1940.			Gas pressure increased at <u>1724</u> foot level and could be set alight in the drain.
	25th May, 1940.			At <u>1727'</u> level the gas in the strata surged with such violence as to cause the water in the casing to flow at the top.
	1st June, 1940.	1736	- 1745'	Gas pressure still persisting.
	15th June, 1940.			There is a strong pressure of gas but I believe this is coming from the <u>1724 to 1747</u> foot level as the present formation is too highly cemented to hold any appreciable volume.

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22nd June, 1940.

Gas pressure strong but as stated in last report I believe it to be from 1724'-1747'.

Last report on file dated 22nd June, 1940

5.0 Correspondence

Appendi x

5.0

Correspondence

118 Queen St., Melbourne

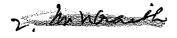
Telegraphic Address : NORSEGOLD Codes : BENTLEY'S



Registered Office :

7th find Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 112 4135

13th March, 1941.



Secretary for Mines, Mines Department, Spring Street, MELBOURNE. C.1.

Dear Sir,

We desire to advise you that Mr. Scarce who is supervising work at the Company's Bores informed us today, that there will not be a report this week as they are salvaging the 6" casing in No. 1 Bore.

m Whyte wie call on mording 17/3741

m re Crys form ander Lee. 4 Set act. In Whyte escene 17/3

Yours faithfully,

Secretary.

Co. Limitec ueen St., Melbourne

Telegraphic Address : NORSEGOLD Codes : BENTLEY'S **Registered Office :**

8th Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 4473

11th November, 1939.



Geo. Brown, Esq., Secretary for Mines, Mines Department, Treasury Gardens, MELBOURNE. C.2.

Dear Sir.

Your letter of the 10th inst. to the Secretary of the Gippsland Oil Company has been handed to me for report.

In acknowledgment of this letter I will admit that Mr. Croll arrived on the field on Monday, October 30th, but that no operations were being carried out at that time, due to reasons explained in report.

I must admit that no record was made of the drawing back of the casing while under-reaming operations were being carried out. This is a regular procedure in boring operations and taken for granted as being understood by those thoroughly acquainted with the oil producing industry.

I must state that my statement "at this time the bore stands drilled to a depth of 1500 feet" is correct, and that the additional 8 feet was made from your stated time of 10.15.a.m. on Saturday, the 4th inst., to 12 midnight of the same day.

Yours faithfull

I.R. Lightner.

10th November, 1939.

IC:TS

Dear Sir,

I have to acknowledge receipt of a report on drilling operations at your No. 1 bore for the week ending 4th November, and to direct your attention to an error in that report, where it is stated that "Mr. Croll was at the bore from 31st October to 4th November, 1939." In accordance with my letter to you of 26th October, Mr. Croll travelled to the bore on Monday, 30th October, and arriving there at 1 p.m.. I would be glad if you would note this correction in your records.

With regard to the record of operations disclosed in your report, it is noted that no reference is made to the drawing back of the casing, which undoubtedly liberated some oil into the bore. It is also noted that the depth of the bore at the end of the week, i.e., on 4th November, is shown as 1,500', whereas it was only ,1492' when Mr. Croll left at 10.15 a.m. on that day. This is such a comparatively large increase in depth in a few hours that I would be obliged if you could have this figure confirmed.

Yours faithfully,

Secretary.

The Secretary, Gippsland Oil Company, 118 Queen Street, MELBOURNE.

118 Queen St., Melbourne

Telegraphic Address : NORSEGOLD Codes : BENTLEY'S

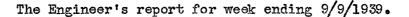
Field Office, Swan Reach.

Vic.

Registered Office :

8th Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 4473

15th September, 1939.



Bore stands drilled to a depth of 1449 foot. The following is the log.

1420 - 1425 - Brownish grey sandy micaceous marl.

1425 - 1440 - Brown micaceous marl with shells.

1440 - 1447 feet - Brownish grey marl with shells.

1447 - 1449 feet - Glauconite sand with shells and grains of quartz.

Depth to glauconite corrected from 1446 feet, as first reported, to 1447 feet, the latter being the casing measurement. Bore stands cemented at 1449 feet. Anticipate starting to open bore on 25/9/1939.

Yours respectively,

E. highten

118 Queen St., Melbourne

Telegraphic Address : NORSEGOLD Codes : BENTLEY'S Field Office, Swan Reach.

Registered Office : <u>VI C.</u> 8th Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 4473

15th September, 1939.

The Engineer's report for week ending 2/9/1939.

Bore stands drilled to a depth of 1420 feet. The following is the log.

1405 - 1415 feet - Greenish grey sandy marl.

1415 - 1420 feet - Brownish grey sandy micaceous marl.

Casing free.

Bore in good condition.

Yours respectfully,

Mue

118 Queen St., Melbourne

Telegraphic Address : NORSEGOLD Codes : BENTLEY'S

Registered Office :

8th Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 4473

9th September, 1939.



Secretary for Mines, MELBOURNE. C.2.

Dear Sir,

The following is a copy of the telegram which we received at 12 o'clock this morning.

"Bore now stands Cemented".

Yours faithfully,

Managing Director.

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Gippsland Oil Co. Limited 118 Queen St., Melbourne Telegraphic ddress NORSEGOLD Codes : BENTLEY'S

Registered Office :

8th Floor, A.C.A. Building 118 QUEEN STREET, MELBOURNE Phone : MU 4473

8th September, 1939.



Secretary for Mines, Mines Department, Spring Street, MELBOURNE. C.2.

Dear Sir,

The following is a report received by telegram

this morning at 10.30 a.m.

"Reached glauconite Wednesday night two cores taken and retained. Am cementing off will complete same today." After two weeks cement will be drilled out. Water shut off tested and plauconite sands opened up to test their value. Depth to sands 1446 feet."

Yours faithfully,

Managing Director.

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