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WELL SUMMARY GIPPSLAND-Z (W430)

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WELL SUMMARY GIPPSLAND-2 (W430)



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APPENDIX.....

1.0 Well Card

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4.0 Lithology





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The enclosure PE904179 has the following characteristics: ITEM_BARCODE = PE904179 $CONTAINER_BARCODE = PE904177$ NAME = well card BASIN = GIPPSLAND PERMIT = TYPE = WELLSUBTYPE = WELL_CARD DESCRIPTION = well card (from Well Summary)Gippsland 2 REMARKS = DATE_CREATED = 30/11/1939DATE_RECEIVED = $W_NO = W430$ WELL_NAME = Gippsland-2 CONTRACTOR =CLIENT_OP_CO = Gippsland Oil Co

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2.0 Survary Report

(MINING AND GEOLOGICAL JOURNAL)

September, 1940

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. ection A-B includes two of these bores, Nos. 3 and 4, nd 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 Palaeontologist 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.

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> 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



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

~ `					• ·
	Lower	Pliocene		••	100'-243'
	Üpper	Miocene		••	243'-283'
	Middle	Miocene	••	• •	283'-706'
		Miocene	••	••	706'-1,112'
	Upper	Oligocene,	micaceous	series	1,114'-1,434'
	Upper	Oligocene,	glauconitic	series	1,434'-1,454'

The limit of the plant was reached at 1,454 feet, and the equipment was moved to a new site near Kalimna, where No. 6 bore is in progress.

No. 4 Bore, Lakes Entrance.

The Commonwealth-owned deep-drilling plant was shifted from Sperm Whale Head to a site at the Pilot Station on the eastern side of the entrance to the lakes (see plan), and drilling commenced early in 1940. A complete sequence of Tertiary beds was passed through, and the Commonwealth Palaeontologist has reported as follows:—

Pleistocene and Up	per Plioce	ne	to 100'
Lower Pliocene	• • •		
Upper- Miocene	••		174'
Middle Miocene	• • •	••	
Lower Miocene	••		799'-1,140'
Upper Oligocene, 1	nicaceous	series	1,150'-1,421'
Upper Oligocene, g	lauconitic	series	1,421'-1,444'
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 At 1,494 feet (section 43,609) the rock is a calcite. 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 appear to predominate over the soda-lime 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 Jft. 6 in. but without segregations of glauconite.

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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 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 Up	per Pliocene	10'-70'
Lower Pliocene	· · · · ·	80'-120'
Middle Miocene	•• •	130'-700'
Lower Miocene	•• ••	710′1,060′
Upper Oligocene, r	nicaceous series	1,070'-1,228'
Upper Oligocene, g	lauconitic series	1,228'-1,249'
		(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.

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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 grass-green 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 calcareous 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.

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-Å 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.

GIPPSLAND-1 No. 1 Bore. o. 1 Bore. W418 GIMS -1 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 235 of the cores have been submitted to the Department as Cectrice requested, and the following summary is based on an .>(6), P (Note .-- The depths are examination of the samples. those shown on the sample labels.) :---

To 250'	• •	Sand and clay.
250'-463'		Shelly marl.
500'-1,200'	• •	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.
1,462'-1,477'	••	Fine and coarse loosely com-
		pacted white quartz sand
• •	÷ .	and clayey sand.
1,483'-1,484'		White quartz sand with chips
de le c		of grey shale and sandstone.
1,484′.		Grey siliceous metamorphic
,		shale with fine quartz
		veinlets.
Below 1,484'		Samples of shale, or sand
,		mixed with chips of shale.

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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 '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 A slide of the material in constructing the section. 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'l 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.

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Oil.

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 GIPPSLAWD-2 This bore is also situated in allotment 111, Parish of Bumberrah, as shown on the accompanying plau, 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.

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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	••	• •	51.1%
Methane	••	••	47.9%
			100.0%
			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.



[Mona McLeod Photo. Fosters Bore, Lakes Entrance.

			13th May.				13th July.					
Top of flu	id column	۱	481						feet fi	com	surfac	e
Depth of	ter colum	n	1,174	,,	,,	,,		1,154	,,			
Depth of	oil columi	۱	693	feet				886	feet			
Amount"o Time of a	water colu	ımn	100	,,		••		120	,,			
Amount o	foil.	• •	849	gallon	s		••	1,074	gallon	s		
,, ,,	water	••	122	5 ,,				147	- ,,			
Time of a	ccumulatio	on	38	weeks	, 4	days	• •	47	weeks	, 2	days	
Rate of a	ccumulatio	m—									•	
Oil	••					per w		22	·7 gall	ons	per we	ek
			3.	1,		,, da	ıy	3	·2 ,,		., da	v
Water	••		4			,, w		4	·1 ,		,, da ,, we	eek
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(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.]

State Lobs. Rept. 1940/323.

Dated 3/5/1940.

Vale for Jippsland at to No 2 Born at 216 feet.

P.P. 100,000. 91/gall. Total Solids (michadig Solids in Surperson) Chlomedes 116 81 26 37 Sulphatis 2 3 Carbonates nil nil Bicarbosti 31 22 Collium ouch 2 1.4 -----Magnesiin ouch 1. 0.7. J.L. Welsin -----



-7. DEC. MINES DEPARTMENT. W430 Victoria. MINES (PETROLEUM) ACT 1935. Section 45. Record of work at Gippsland Oil Company NO.2.... bore on and the second second * Petroleum Prospecting Licence Number 68.... during week ending .December 2nd, 19³⁹. Depth Description of Strata 0 -70-Yellow and grey mottler sandy clay. **6** 80 70-80-Soft grey sandstone. -Soft grey same spudded in on November, 30th., 1939. and the second te and the second s In the second In the second 이 나이가 의해되었는 네 생활 편이라. 물건 것을 가 있는 것은 것은 것을 가지 않는 것이다. 같이 나이가 의해되었는 네 생활 편이다. 물건 것은 사람이라는 것은 것은 것은 것은 것은 것을 가지 않는 것이다. 것은 것은 것은 것은 것은 것은 것은 것을 가지 않는 것이다. 것은 것은 것은 것은 가 يو دون د د م 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 • • 6 GIRPSEAMD ON GOMPANY LIMITED Legal Manager # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. 0-0-0-0-0-0 1

EXTRACT FROM MINES (PETROLEUM) ACT 1935.

***** 300

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.

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

- (a) immediately report thereon to the Minister in writing; and
- (b) carry out thereafter such operations as may be necessary to test the value of the occurrence of such petroleum as may be approved by the Minister.

<u>Section 48</u>. 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 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.

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2/29 MINES DEPARTMENT. Victoria. MINES (PETROLEUM) CT Section 45. Record of work at Gippsland Oil Company NO 2 bore on ending December 9th 19 39.... Depth Description of Strata 80 80 -84 -Soft grey sandstone. 84 -208-Sandy yellow clay. 208- -First appearance of shells.Also 2 gals.water per hour. 208-216-Yellow sandy clay with abundant shells. 262 216-262-Grey marl rich in shells. Two shifts working. Contractors promise third shift this week. - 5 . Not the M Herri 2012 geditetter holmet s<mark>aarddelf</mark> ach selenn o ei ford. Ifeda on amlfoddi ei wale ei odf goo far holoeff an offedda romante cat or would be not the the state of the ine (Surren Cl ar-amitanors della medici e vici der yerio (d) 10 autor ill'ores po celo comerciò contri 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.) At 208 foot a seepage of water was encountered.At 220 foot water came in freely.Sample of same has been taken and will be forwarded to your Dept. for analysis, Bore cased with 8" casing to 134 foot currey appledy M Signed Legal Manager / 3. 12. G...Coy 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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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. يە مەرىپ (1960- 1-1) مەرىپەر بەرەپ ئەرەپ ئەرەپ مەرىپەر يېرىكى بەرەپ مەرىپەر يەرەپ مەرىپى بەرەپ مەرىپ

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(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.

(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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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 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.

MINES DEPARTMENT. Victoria. MINES (PETROLEUM) Record of work at GIPP.S. and. O.L. Conspany. No 2 bore on * Petroleum Prospecting Licence Number during week ending Dec. e.m. b.e. 16. 193.9.... Description of Strata Depth 262 - Shell bond 262 - 310 - Grey Shelly morel 310 - 355 - Brown Shelly morel with sond 262 Formation Coving badly. 6" casing which has arrived on the field will now be 1417 1. Alt Marth . V 2: Alt Warth . V 3: Alt Marth. 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.) 8" casing vun to 271-11" Signed GIPPSLAND Legal Manage BUEEN ST: MELBOURNECoy Date # 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 (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.

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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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Section 48. Every licensee and every lessee, unless in any case wholly or partially excused from sc 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.

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4/29 MINES DEPARTMENT. Victoria. MINES (PETPOLEUM) ACT 1935. Section 45. Record of work at Gippsland. Oil Co. No. R. bore on Description of Strata Depth 355- 312 - Brown micoceous Shelly marl. 355 372 - 490 - White friable Polyzoal limestone. 490 - 500 - Cream Colored Polyzoal limy mart. 500 · 42 h. 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 petroleum is encountered.) · 6" casing run to 463 foot

GIPPSLAND OIL COMPANY LIMITED

Secretary SignedСоу Др Legal Manager Date

E Strike out words not applicable.

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

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MINES DEPARTMENT. Victoria. (PETPOLENM) Section 45. ACT 1935. MINES Record of work at Grippes Jand. Oil. G.a. Mo. Z ... bore on * Petroleum Prospecting Licence Number during week 19

Depth

Description of Strata

5/29

No 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 notified immediately water, gas, or petroleum is encountered.)

GIPPSLAND OIL COMPANY LIMITED

Signed **D**ecretary Coy Legal Manage Date

a Strike out words not applicable.

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

MINES DEPARTMENT. Viscoris, (PETPOLEUM) Section 45. ACT. 1935. MINES Record of work at . G. p.p.s. and Oil Ca. 1. ... bore on ospecting Licence Number . 6.8..... during week * Petroleum H Description of Strata Depth Woik was resumed on 4-1-40. 6" cosing is being withdrawn for examination After casing had been run it became sommed, evidently by a piece of rock. A 58 Ton Pull was necessary to free it. Casing was guit free after being Pulled two feet; But believe it Wise to Pull all of it and examine.

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.)

GIPPSLAND OIL COMPANY LIMITED

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....Director Secretary Signed Legal Manager 1. Z.O.A Date .

* Strike out words not applicable.

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

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MINES DEPARTMENT. Victoria. (PETROLEUM) MINES C Section 45. Record of work at Gippsland Oil Companies .. NO. 1 ... bore on W Petroleum Prospecting Licence Number 68...... during week ending .January. 13th 1940..... Description of Strata Depth 500 feet. During the week, the 6" casing which was not as free as is necessary, was withdran from the bore for inspection. This being found alright the bore was under-reamed to the bottom and the casing re-run to 494' 8". At this depth the casing was hand free.Drilling will now be resumed. All men not having had returned from their holidays, only one shift was operating. All men have now returned to the field and work on both bores should proceede satisfactorily. t: 2 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.) 8" casing run to 318' 10" 6" casing run to 494" Signed CIPPELAND OIL COMPANY DMITED Legal Managenueen or MELSON RNECOY Date # 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. '5. JAN 1940 Victoria. ETROLEUM) MIN ES СТ А Section 45. Record of work at Fippsland Oil Company. NO. ... bore on * Petroleum Prospecting Licence Number63...... during week ending January, 20, 1940..... Depth Description of Strata 500-550-Polyzoal limy mar1 with abundant shells and some fragmental limestone. 500 550-575-Greyish green shelly marl.Large shells are in a state of deterioration and cannot be taken from the core without crumbling. 7121 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 run to 554' 2". Gas has started to make its appearance. ⁄Signød COMP AND IMITEO OH Logal Mar Соу a BOURNE. Dh # 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 ACT 1935 NEE (PETROLEUM)

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

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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 iti

(3) In the event of the continuance of drilling opera-tions 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.

<u>Section 48.</u> Every licensee and every lossee, inless in any case wholly or partially excused from so doing by the Minister, shall properly case each well with casing in accordance with shall property 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 ef-fectually shutting off all water overlying and underlying the petroleum deposits, and for effectually preventing any water from penetrating such petroleum deposits. from penetrating such petroleum deposits.

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9/29 MINES DEPARTMENT. Victoria. MINES (PETROLEUM) ACT 1935. Section 45. Record of work atGippsland Oil Company NO bore * Petroleum Prospecting Licence Number62 dux -3-FEB 196 ending January 27 19⁴⁰ Depth Description of Strata 575-590-Greenish grey shelly polyzoal mar. 590-625-Grey polyzoal shelly marl, puggy. 625-675-Greenish grey shelly marl with granular limestone. 575 675-715-Grey sandy shelly marl. 715 . No drilling progress is anticipated for this coming week as the plant is being reconstructed in order to increase its capacity. New casing handeling equipment, and new engine are being installed. How Wirth Wheel A CARLES 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.) igne COMPANY LIMITED GIPPSEAND CH. Date . 1001 # 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 (DETROLFUM) ACT 1935. EXTRACT FROM MINES (DETROLEUM) ACT 1935.

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.

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MINES DEPARTMENT. Victoria.

MINES (PETROLEUM) ACT 1935. Section 45.

Depth

Description of Strata

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As anticipated in last weeks report, no drilling operations were carried out this week due to the re-construction of the plant. At this time the job is nearing completion and drilling should be resumed about the middle of this week.



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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 perroleum is encountered.)

Signed

Logal 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



EXTRACT FROM MINES (PREROLEUM) 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.

(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 -

- (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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Section 48. Every licensee and every lessee, unless in any case wholly or partially excused from sc 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.

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MINES DEPARTMENT. Victoria. (PETROLEUM) N ES 1935.Section 45. Record of work at Gippsland Oil Company NO 2 bore on * Petroleum Prospecting Licence Number68...... during week ending February, 10th..... 1940..... Depth . . Description of Strata 715 715-750-Granular limestone, greyish green, with shells. 760 750-760-White granular limestone and shell. Operations were resumed on Thursday. The reconstruction of the plant has been completed except for the engine, which will not arrive untill the end of this week. Bore is being operated untill that time with the old engine A . S. . فسرائك فالالتك فللالك C. C. March 199 Br 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.) 6" casing run to 725 Freet Gas showing in bor Signed Legal Manager ... ····Coy * * * * Date/..../.... # 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 (DITROLEUM) 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 arecapable of yielding a core or other samples as is or are prescribed or is or are approved by the Minister.

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(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 opera-tions 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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MINES DEPARTMENT. Victoria. (PETROLEUM) 1935. MINES ACT Section 45. Record of work at Gippsland Oil Company NO.2.... bore on * Petroleum Prospecting Licence Number during week Description of Strata Depth 760-785-Polyzoal lime with shells. Slightly ceme nted. 760 785-800-Blueish green polyzoal marl.Sticky. This bore is very similar to NO, 1 except that it shows a rise of aproximately 130 feet. sel. 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.) Bore cased with 6" casing to 767 feet. Gas showing and irridescent Milms on trench. 1038106/2000 000 Signed .. MARCE C egal Manager Date/.../.... # Strike out words not applicable.

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

EXTRACT FROM MINES (DETROLEUM) ACT 1935.

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an and an activity of any tax and any second second in any second second second second second second second second 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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13/29 DEPARTMENT ictoria. ACT (PETRO NES LEUM) 1935. Section 45. Record of work at ... Gippsland, Gil. Company. NO. 2 bore on Petroleum Prospecting Licence Number during week 羟 ending ... Eebruary .. 24th ... 19.40.... 1.1 Depth Description of Strata Greyish blue foraminiferal limy marl. very luggy. 800 800-2. he Whatter 3. he Crock س ديدي جو پوندهه توجيع در در الانه الايه ک Notes 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 inserted 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-

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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

(2) In the event of water associated with a petroleum deposit being encountered in the course of drilling operations, the holder of the licence shall immediately report the same in writing to the Minister and state the steps taken to deal with it.

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

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

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

(a) immediately report thereon to the Minister in writing; and

(b) carry out thereafter such operations as may be necessary to test the value of the occurrence of such petroleum as may be approved by the Minister.

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -(a) retain for a period of not less than twelve months all cores obtained by drilling and representative samples of other specimens obtained from the land and, when so required by the Minister, forward the same to the Minister.

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14/29 **約律**律 DEPARTMENT toria. OLEUM) MIN Section 405 Record of work at . Gippsland Oil Company NO 2 bore on Petroleum Prospecting Licence Number during week -Petroleun Mineral Leaseending March 2nd · · · · · · 19.40 Description of Strata Depth 827-858- Polyzoal marl with fragmental limestone and shells. 827 858 Notes 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.) pellan Signed ND OIL COMHANY LIN Legal Ma Date 200100000 . BiPectorSecretary Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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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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- (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 (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

 (a) retain for a period of not less than twelve months all cores obtained by drilling and representative samples of other specimens obtained from the land
.... and, when so required by the Minister, forward the same to the Minister.
15/29 MINES DEPARTMENT. Victoria. (PETROLEUM) ACT 1935. MINES Section 45. Record of work at Gippsland Oil Company NO 2, bore on × Petroleum Mineral Lease ending March, 9th, 1940 . . Description of Strata Depth 858-860- Bluish grey foraminiferal marl 860-863- Hard white limestone with corel. 858 863-875- Greenish grey polyzoal limy marl with shells. 875 Lost 1 days drilling while installing engine. and a start of the s A start of the start of another with the anti-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 6" casing to 827 feet. Secretary Signed AND VIL COMP Legal Manager MY LONGED Lo.P. lov D. Director Date Secretary. * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-0-

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16/29 A & CAR STAND MINES DEPARTMENT. Victoria. (PETROLEUM) ACT 1935. Section 45. Record of work at ... Cinnsland Qil Company NO. 2 bore on * Petroleum Prospecting Licence Number63 ... during week ending March, 16th 19.40 Depth Description of Strata 875-890- Grey polyzoal shelly marl.Puggy. 890-900- Greyish green polyzoal shelly marl 375 900 4 Plant working very well since installation of larger engine. · . •, Alexander Barton Barton the product of the second $\mathcal{J}_{\mathbf{k}} = \mathcal{J}_{\mathbf{k}} =$ All the second second 5 (5 6 5 8 8 5 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 6" casing to 827 feet. 1 + 1 Signed Legal ManagerPS Coyen Date ... •/ . * Strike out words not applicable. Analyses of water, gas and oil should be submitted if avail-able. -0-0-0-0-0-0-

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17/29 MINES DEPARTMENT. Victoria ه از این از ا مراجع میرود از بیده از میرود از (PETROLEUM) ACT 1935. MINES Section 43. Record of work at . Gippsland Oil Company NO. 2, bore on Petroleum Prospecting Licence Number during week Petroleum Mineral Lease • Description of Strata Depth ٠. 900 900-910 - Bluish green foraminiferal marl. Plant closed down 20/3/40 untill after Easter gfilier 1 addi an tha sain anns an tha said 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 6" casing to 897 feet. Gas showing with films of oil, they time : Signed Legal Manager Coy. Date •. . Strike out words not applicable. 燛 Analyses of water, gas and oil should be submitted if a able. Analyses of water, gas and oil should be submitted if avail--0-0-0-0-0-.

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18/29 MINES DEPARTMENT. Victoria. T <u>ROLEUM) ACT 1935.</u> Section 45. Record of work at . Ginnaland Qil company NO 2, bore on Petroleum Prospecting Licence Number68 ... during week ¥ ending March 30th 1940 Depth Depth Description of Strata 910 910-925 - Dark grey foraminiferal limy marl.Puggy 925 Plant resumed operations 27/3/40.After being closed down for Easter. 12.11 1. 200 and the second Ch.3 1 C - 1 ちょうりつい م درمار میغاند. . . a . 4 . 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.) Gas and oil films showing, ie he 8 8 6 S e je se s s s A general and a state of a second s and and and the second second second · · . Signed Legal Manager Coy. Date * Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. ÷ 5,0 -0-0-0-0-0-0-

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19/29 DEPARTMENT Victoria. T.R.O.L.E.U.M) A C.T. 1935. Section.45. Record of work at . Postand Gil Ca. No. bore on Petroleum Prospecting Licence Number during week Description of Strata Depth 925.935 Grey for aniniferal Marl 935-945 Greenish for aminiferal marl 925 945 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.) LINTED Signed DirectO Coye 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 THE MINES (PETROLEUM) ACT 1939.

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20/29 122312 (PETROLEUM) ACT 1935. Section 45. Record of work at Laspaskud . Ci. C.C. N.C. & bore on Petroleum Mineral Lease Number during week Æ ending April Forth .. 19.4.0... Depth Description of Strata 945-955- Greenish grey for aminiferal Marl. Very Sticky. 955-960 - hight grey Polyzool marl with bivalves. $\mathbf{z} \in \mathbb{C}$ et ten ap 等于我的教育的人的 医法人 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 6" cusing vun to 950 foot GIPPSLAND ONE COMPANY LIMITED Signed Pi Matocontine Coy. ** * * * Strike out words not applicable. a. Analyses of water, gas and oil should be submitted if avail-able. -0-0-0-0-0-0-

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21/29 MINES DEPARTMENT. Victoria. (P E. T R O L E. U M) A C T 1935. Section 45. Record of work at . Standard Wil. C. N. 2 bore on Depth Description of Strata Light grey polygoal mast 960 -968 Band of fairly hard shelly limestone 968 - 969 Light grey polygoal marl 969-971 Light grey polygoal mare with 971 - 97 large cosals 979 - 983 Sight grey polygoal marl Fairly hard white timestone 983 - 984 band Accessing 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.) Films of oil appearing on gas bubbles in the slurry at this depth. ee-6" Casing lowered to 963 - 7'z" Signed . F. Macdonald J. Engineer Legal-Manager , Juch sland, Vel Coy. Le secretary 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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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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23/29 ya, andar in a MINES . DEPARTMENT lictoria. C<u>T</u> 1935. NES EUM) OL Section 45. hpsland Oil C? bore on Record of work at Petroleum Prospecting Licence Number during week 猨 Petroleum Mineral Lease Att may ... 19.4. Q ... ending .. Description of Strata Depth Light grey stic 1000 -1010 marl 1010 - 102 Dark grey with shells. E. A. Macdonald aut. Enginee 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.) 7 Ims of oil still persists The Slurry. MPPSLAND ON COMPANY LIMITED Signed Legal Manager Čoy. 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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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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24/29 DEPARTMENT. <u>OLEUM) ACT 1935.</u> Section Record of work at fur haland. Gil. C.º. Nº 2. bore on 箑 ending 11 th may 19.40.... Description of Strata ... Depth Dark grey polygoal marl. 1020'-1024 Greenish grey polyzoal marl. 1024 -1027 Greenish grey polygoal marl. Core taken 1027 - 1030 Greenish green polygoal made with shells 1030 - 1042 A. 8 . E. H. Macdonald Asst. Enquier 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 Minis-ter to be notified immediately water, gas, or petroleum is encountered.) On atting a sample of the core taken with chlorofor appreciable socidere of oil remained an Signed GISSSIAND DIC COMPANY LIMITED . . Legal Manager Date/Machelobushuly * 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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25/29 MAY 1940 MINES DEPARTMEN Victoria, ACT (PETROLEU'M) 1935. INES. M Section 45. pholand bit t . bore on Record of work at .1 Petroleum Prospecting Licence Number ... during week Depth Description of Strata and the second second second Light green ish grey polygoal 10402 - 1065 este antig $\mathbb{C} \xrightarrow{\mathbb{C}} \mathbb{C}$ 1. P.J. en in france 0.58 en de la la composición de la 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.) lowered to 1039 - 10 2 " "Casing . E. M. macdonald And. Enga Signed GIPPSLAND OIL COMPANY LIMITED Legal Manager4 Coy. Date/ . Director rene socretary Strike out words not applicable. Analyses of water, gas and oil should be submitted if available, 1914 A. -0-0-0-0-0-0-

AMENDED BY THE MINES (PETROLEUM) 1.939.

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

26/29 and a set of the set o MINES DEPARTMENT Victoria. ETROLEUM) Section 45. <u>ACT 1935</u>. E Record of work at Supportand Od C- Nº 2. bore on Petroleum Prospecting Licence Number during week ending May 25th 19. H.O. Description of Strata Depth Core taken. Light grey polygoal 1065-1067 mare with shells Light grey polygoal marl with shells E. H. Macdonald Asst. Enginee 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-<u>N.B.</u> The Act also requires the Minisserted and cemented. ter to be notified immediately water, gas, or petroleum is a sample of core taken yielded 0.00003 parts by weight encountered.) ofoil GIPPSLAND OH COMPANY LIMITED Signed .. Director ***.***.•\ Legal Manager CStoretary Date # Strike out words not applicable. Analyses of water, gas and oil should be submitted if available. -0-0-0-0-0-0-

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

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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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.

28/29 DEPARTMENT. Victoria. $\underline{T} R O \underline{L} \underline{E} \underline{U} \underline{M}$ A C $\underline{T} \underline{1935}$. Section 45. Τ ES Record of work at ful histond Ull C. N. R. bore on Description of Strata Depth core taken. Dark greenish grey polygoal marl with bi - valves & 1089 - 6" 1091 streaks of Glanconite. Dark greenish grey polyyoal mart 1091 - 1098 Abr Warthe 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 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.) Casing lowered to 10\$7-6 GIPPSLAND OIL COMPA 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-

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Victoria 1935. ROLEUM) C Т Ē NE S Section 45. GIPPSLAND OIL COMPANY'S NO. 2 ... bore on Record of work at . Petroleum Prospecting Licence Number during week 狅 Petroleum Mineral Lease Description of Strata Depth 1106 feet 1098 - 1106 feet - Dark grey laminated polyzoal marl. As this plant has reached its limit in depth, drilling on No. 2 will be held up until a larger plant can be erected. Arrangements are now being negotiated with the Contractors by which a G20 plant built to drill 2500 feet will be brought onto the field as soon as it can be moved from its present location. The pilot plant which was only intended to do part of the drilling on No. 2 was a G14 and built to drill 750 feet. Good work by the Contractors was done to carry on with it to the 1106 foot level. Any further drilling with this plant would be too great a hazard for the safety of the bore and of the plant.

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.)

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GIPPSLAND OIL COMPANY LIMITED

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?Director Signed eteri) Coy.

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Legal Manager Coy. Date 0567 field for the content of t

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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REVERSE REPORT

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GIPPSLAND NO. 2. - GIPPSLAND OIL CO. LTD.

Oil and Gas reported in Weekly Drilling Reports submitted by the Company to the Department.

Date	of Report.	Depth	Notes.
10th	February, 1940.	715' - 760'	Gas showing in bore.
17th	February, 1940.	760' - 800'	Gas showing and irridescent films
			on trench.
23rd	March, 1940.	900' - 910'	Gas showing with films of oil.
30th	March 1940.	910* - 925*	Cas and oil films showing.
20th	April, 1940.	960' - 984'	Films of oil appearing on gas
ation a Second	an an an tha the standard stan Standard standard stan		bubble in the slurry.at this depth.
4th	May, 1940.	1000' - 1021'	Films of oil still persisting in
			the slurry.
11th	May, 1940.		On cutting a sample of the core
			(1027'-1030'Ed.) taken with
			chloroform an appreciable residue
		- -	of oil remained.
25th	May, 1940.		A sample of the core (1065*-1067*
			Ed.) taken yielded 0.00003 parts
		÷	by weight of oil.

Last Report dated 15th June, 1940. Plant reached its limit plan to get new plant. Depth 1106*.

4.0 LITHOLOGY 1 OF 2 - COMPANY LOG

12430 COMPAN 100 OP NO. 2 BORE Chicked against Weekf Drilling Reports-submitted of the Compay to the Reportment-+ additions + comedian marked in mil or Bins & 920'. P. Whelle. 24/ Sey/1965. 251 Aug/1405. W.D. R. ligher out separt.

NO. 2 BORE

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Commenced 50th November 1939.

	0 - To foot	Yellow and grey mottled sandy clay. 70-80 Soft grey sandstone
	70 - 84 "	Soft grey sendetone
	84 - 208 "	Sandy yellow clay
	208*	First appearance of shells. Also 2 gals. water per hour
•	208 - 216 "	Yellow mandy clay with abundant shells
	216 - 262 "	Grey marl rich in shells
	2621	Shell band
	262 - 310 "	Grey shelly marl
	810 - 365 " 855 - 372 "	Brown shally marl with sand Brown mice cous shally marl Uth abundant
• •	All for the contract of the	
	572 • 490 ¹⁰	White Frieble polyzoal linestone 500-550 Pelyzoul liney mark for shells
		Green and prayable stary marten 550 - 575 Grey-green shelly marted
	10 F 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Greenich grey shelly polyson mari Shells present crumble m touching,
	$\phi \phi \phi = \phi \phi \phi$	Grey polymoni sholly mari puggy
	625 - 675 "	Greatich Zerdon shelly marl with granular limestone
	875 - 715 "	Grey sandy shelly marl
	715 - 750 "	Granular limestone, greyish green with shells
	750 - 760 *	White granular limestone with sholls. Gas showing in Bore.
	760 - 785 "	Polysonl line with shells. Slightly cemented
	785 - 800 *	Bluish frey polyzoni mari, very sticky 800'- Greyish blac foraminefeel
	-8581-	In light to dark grounish gray polyson and with shells \$27'-858'
	, 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990	and grains of guards-
	858 - 860 *	Bluish grey foraminiferal mark. Foraminifera starting (Inguista)
		to appear in granting in Boro-
	860 - 868+6" 863'	Hard white crystaline linestone with large-corel shafts.
	862'6" - 868'6"	
	868'6" - 873 feet	Soft to hard white orystaline limestone - 863'-875' Greenik frey
	8751- 87416"	Core taken. Grey polyzoal marl with shells Adyred ling mad Grey polyzoal shelly marl, purch
	VIV T VVV	
	890 - 900 *	Greyish green polysoal shelly line-marl
	900 - 910 "	Bluish green foraminiforal marl. Cas and Oil films showing.
	910 - 925 "	Dark grey foraminiforal mirl, puggy.
	920 - 926 *	Dark grey foraminiferal marl with shells - This carty not in W.D.R. form.
	925 - 926 "	Bluish grey foraminiferal marl merging into a soft white
		limestone
	926 - 936 *	Dark grey forminiforal merl
	936 - 945 "	Light grey foraminiforal marl
	945 - 955 *	Greenish grey sticky foreminiferal marl
	955 - 960 *	Light grey polysonl marl with bi-valves
	960 - 968 "	Light grey polyscal marl
	968 - 969 *	Band of fairly hard shelly limestone
	969 - 971 "	Light groy polyzoal marl
•	971 - 978 *	Light grey polyscal mark with large corals
	979 - 988 "	
	<i>w.w</i> - <i>ww</i>	Light grey polysoel marl
	978 - 672	Band of soft to hard white limestone
	化合成 " ""我我们	Light grey polynoal marl
	990 - 998 "	Sticky groy marl
	993 - 994 "	Band of hard white shelly limestone
	9 94 -1 000 *	Light groy polyzozi mari
	(1,1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	(over).

1000	*	101	0	feet
1010	-	102	11	쵏
1020	*	108	体	幹
1024	-	102	7	N
1027	-	102	ю	1
1030	*	104	2	蜂
1042	-	100	18	材
1065	*	106	17	群
1067	*	107	7	鍵
1077	*	108		6*
1089	*6*			91 *
1091	•	108	18	feet

1098 - 1108

Rec'd 11/2741 Light grey sticky polyzoal marl Dark grey polyzoal marl Dark grey polyzoal marl Greenish grey polyzoal marl Greenish grey polyzoal marl Greenish grey polyzoal marl Greenish grey polyzoal marl Mart greenish grey polyzoal marl A core was taken - Light grey polyzoal marl with shells Light greenish grey polyzoal marl with shells Light greenish grey polyzoal marl with shells Core taken. Dark greenish grey polyzoal marl with shells and streaks of glauconito Dark greenish grey polyzoal marl

to 18th June, 1941.

casing to 271' "

4.0 LITHOLOGY 2 OF 2 - LOG FROM WREKLY REPORTS - HYPROCARBONS SURVARY

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GIPPSLAND OIL CO. LTD. - GIPPSLAND NO. 2.

Lithological Log copied from Weekly Drilling Reports submitted by the company to the Department.

01		701	Yellow and grey mottled sandy clay,
70'		80 ¹	Soft grey sandstone
•		841	
		208 '	Soft grey sandstone
84'			Sandy yellow clay
		2081	First appearance of shells
		216'	Yellow sandy clay with abundant shells
216'			Grey marl rich in shells
		2621	Shell band
262'		-	Grey shelly marl
-		355'	Brown shelly marl with sand
		372'	Brown micaceous shelly marl
372'		• =	White friable polyzoal limestone
490'		-	Cream coloured polyzoal limey marl
500 '		550'	Polyzoal limey mark with abundant shells and
			some fragmental limestone
550 '		575'	Greyish green shelly marl. Large shells are
			in a state of determination and cannot be
			taken from core without crumbling
575 '			Greenish grey shelly polyzoal marl
		625'	Grey polyzoal shelly marl, puggy
-		675'	Greenish grey shelly marl with granular limestone
		715'	Grey sandy shelly marl
		750'	Granular limestone, greyish green with shells
		760'	White granular limestone and shell
760 '	-	785 '	Polyzoal lime with shells. Slightly cemented
785 '		8001	Blueish green polyzoal marl, sticky
800'	-		Greyish blue foraminiferal limey marl. Very
			puggy
827		858'	Polyzoal marl with fragmental limestone and
			shells
8581	-	860'	Blueish grey foraminiferal marl
8601		8631	Hard white limestone with coral
8631	-	875'	Greenish grey polyzoal limey with shells
875'	-	8901	Grey polyzoal shelly marl, puggy
890 '		9001	Greyish green polyzoal shelly marl
900 '		910 '	Bluish green foraminiferal marl
910 '		925'	Dark grey foraminiferal limey marl, puggy
> 925・		935'	Grey foraminiferal marl.

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935'		945'	Greenish foraminiferal marl
9 45'		955 '	Greenish grey foraminiferal marl, very sticky
955 '	****	9601	Light grey polyzoal marl with bivalves
960 '		968'	Light grey polyzoal marl
9681		969'	Band of fairly hard shelly limestone
969 '		971'	Light grey polyzoal marl
9711	-	979'	Light grey polyzoal marl with large corals
979 '		9831	Light grey polyzoal marl
9831		984 '	Fairly hard white limestone band
984 '		985'	
985 '		9901	Light grey polyzoal marl
990 '		993 '	Sticky grey marl
9931		994 '	Band of hard white shelly limestone
994 '		1000'	Light grey polyzoal marl
1000'	-	1010'	Light grey sticky polyzoal marl
10101		1021'	Dark grey polyzoal marl with shells
10201		1024'	Dark grey polyzoal marl
1024'		1030'	Greenish grey polyzoal marl
1030'	-	1042'	Greenish grey polyzoal marl with sshells
1042'	-	1065'	Light greenish grey polyzoal marl
1065 '		1077'	Light grey polyzoal marl with shells
1077'	-	1089'6"	Light greenish grey polyzoal marl with shells
1089'6"	-	1091'	Dark greenish grey polyzoal marl with bi-valves
			and streaks of glauconite
1091'	-	1098'	Dark greenish grey polyzoal marl
10981		1106'	Dark grey laminated polyzoal marl
			At this depth it was planned to change
			plants from a G14 to G20.

Last reported depth to 1106'

WATER

at 208'

at 220'

A seepage of water encountered. Two gallons, per hour. Water came in freely

OIL	AND	GAS
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During	500 '	-	575 '	Gas started to make its appearance
11	715'	-	760 '	Gas showing in bore
11	760 '		800 '	Gas showing and irridescent film on trench
Ħ	90 0 '		910 '	Gas showing with films of oil
11	910'	-	925 '	Gas and oil films showing
Ħ	960 '		984 '	Films of oil appearing on gas bubbles in slurry
84 84				at this depth.

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During	1000' - 1021'	Films of oil still persisting in the
		slurry
11	1020' - 1042'	On cutting a sample of the core taken
		(1027'-1030' Ed.) with chloroform
		an appreciable residue of oil remained
· • • • • •	1065' - 1077'	A sample of core taken yielded 0.00003
		parts by weight of oil (1065'-1067').

NOTES:

This bore is very similar to NO.1 (Gippsland No.1 Ed.) except that it shows a rise of approximately 130 feet.



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GIPPSLAND NO. 2. - GIPPSLAND OIL CO. LTD.

Oil and Gas reported in Weekly Drilling Reports submitted by the Company to the Department.

Date of Report. Depth Notes. 10th February, 1940. 715' -760' Gas showing in bore. 17th February, 1940. 760' -800º Gas showing and irridescent films on trench. 23rd March, 1940. 900' -9101 Gas showing with films of oil. 30th March 1940. 910' -9251 Gas and oil films showing. 20th April, 1940. 960' -984' Films of oil appearing on gas bubble in the slurry at this depth. Films of oil still persisting in 4th May, 1940. 1000' - 1021' the slurry. 11th May, 1940. On cutting a sample of the core (1027'-1030'Ed.) taken with chloroform an appreciable residue of oil remained. A sample of the core (1065'-1067' 25th May, 1940. Ed.) taken yielded 0.00003 parts by weight of oil.

> Last Report dated 15th June, 1940. Plant reached its limit plan to get new plant. Depth 1106'.