

**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

1.0 Well Card.

Appendix 1.0

Well Card

PE904142

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 = PE904142
CONTAINER_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

Appendix 2.0

Well Summary

1939. El. 255. (Lat 37° 51' 40" S)
 235
 T.D. 1766. (Long. 147° 52' 20" E.) Ph. Bumberrah.
 Ref. O.D.L.

Sounded 28 Feb. 1939

Abandoned Nov. 1939

El. reported as 255 later corrected to 235

Location Allot. 111 Ph. Bumberrah.

Rough log in M.F.G. Vol. 2. No 3. + Water Analysis + Gas & Oil Shows.
 p 161-163.

Sand and clay 0 - 250.
 Shelly marl 250 - 463.
 Polyzoal limestone 500 - 1200.
 Micaceous marl. 1216 - 1373.
 Grey green soft sandstone
 with some glauconite 1446 - 1458'
 Hard grey sandstone
 with a little glauconite ... 1458 - 1462'
 Fine and coarse loosely
 compacted white quartz
 sand and clayey sand ... 1462 - 1477
 White quartz sand with chips
 of grey shale and sandstone ... 1483 - 1484'
 Grey siliceous metamorphic shale
 with fine quartz wormlets ... 1484
 Samples of shale, or sand
 mixed with chips of shale ... below 1484

"The glauconitic sandstone obtained in this bore at 1446-1458' is comparable with the Lakes Entrance material, but appears to contain more clay & less glauconite" I.C.H. Coll,

Extraction tests for oil on several samples gave completely negative results.

A number of fossils obtained from the loose sands below the glauconite beds include several small well preserved sharks teeth, fish scales, and some pyritic replacement of corals & molluscs.

Water

First reported at 290', but no sample taken till bore had reached 750'. Analysis of sample marked "705 feet" resulted as follows.

Sodium - 165 ppm. - 24%

Chlorides - 250 ppm - 36%

Sulphates - not tested

Carbonates & bicarbonates - 96 ppm - 14%

Concentration - 690 ppm.

Lower water layers approx 1462 ft., water did not rise beyond 55' ± 5'. Partial analysis of this water:

Chlorides - 830 ppm - 41%

Sulphates - Nil.

Carbonates & bicarbonates - 640 ppm - 32%

Concentration - 2020 ppm.

Gas

A non inflammable gas was reported at 175' and analysis showed it to contain 11% nitrogen + CO₂ the rest being air.

Inflammable gas, probably methane was recorded at various depths and was in greatest abundance

associated with the lower water

analysis of gas at 1083' was analyzed as follows:

CO₂ - Trace

O₂ - 1%

N₂ - 51.1%

Methane - 47.9%

Oil

Company reported first traces of oil 637-705'. At 1484' 6" a

film of oil was seen on water brought up in bailer by Minis Dept Geol. at this depth casing was pulled back & small quantities of oil were obtained apparently from the sands immediately above logback.

From. O.D.L. (- weekly drilling records) (at 1555' Dec 1937)
 Drilled in PPR. 68. Ee. 245 gal. not 205' as originally stated.

Oil & Gas Shows

Non-inflammable gas at 175'; short flow.

Gas ~~re-entrained~~ at 417'

Gas & distinct films of oil 637'-705'

" " " " " " 705 - 798'

Volume of gas slightly increasing as bore is deepened. Formation too tight to expect much gas. all gas bubbles carry heavy oil film. 798'-858'

Distinct films of oil on bailing 940' - 952'.

When core (977-1096) is cut w/ chloroform a heavy residue of oil remains in evaporating dish.

Gas increased in volume & films of oil stronger 1170-1203.

Chloroform cut of core at 1226' gave oil residue, not tested because strata too tight.

Water

at 290-298' - bailed at rate 590 gph. did not lower level below the 290 ft. mark.

Casing 8" \odot 357' $8\frac{1}{2}$ ". When bore was at 1550', 134' of 8" casing was removed to No 2 bore, leaving 8" \odot 223'. A further 138' removed leaving 8" \odot 85'. Further 78' removed leaving 8" \odot 57' 6" \odot 1543'.

Cores 5" \odot 1682'

Every ten ft. below 1090'.

Temp. Temp. of formation at 1118' was 115° (Normal temp. at that depth. 87°F)
 at 1200 " 118°F
 1235 " 117°F
 1260 " 118°F
 1350 " 122°F

Temp gradient showing constant rise of 1° F. for every 40' of depth.

Oil & Gas Shows. (cont)

From 1345' level, globules of oil are appearing on the track with the slurry.

Strong flow of gas at 1456' interfering with bailing operations when water had been bailed to within 200' of bottom. - This was shut off on recementing the 6" casing at the 1458' level.

level.

Oil noted at 1482'. Bitumen picked up by bailer at 1482'. Gas pressure very strong & surging, causing water level to rise & fall between 160' & 255' levels.

Gas & oil showing freely 1482-1500

Gas showing w/ pressure. & oil much in evidence in bailer. 1500-1510

Heavy gas pressure. & oil shows. 1510-1533, 1533-1544.

Samples of formation contain oil, gas strong. 1544-1555.

V. Strong flow gas w/ petroleum odour & oil shows. 1565-1569.

Gas & tar oil showing in sandy shale.

Strong gas. Show of gas bubbles w/ films of oil in slurry when bailing from 1705'. Gas persisting but in less quantity 1705-1715.

Gas pressure increased at 1724' & could be set alright in drain. (continued.)

Cementing Operations:

Bore cemented off at 1449' (6" casing at 1447'). ^{On} ~~after~~ drilling out cement inside 6" casing, the casing dropped approx 6" fracturing the cement on the outside of the casing. On attempting to core further to find a seat for casing we found the piece of steel from underreamer leg which had been sidetracked higher up the hole had become dislodged & was again in the bottom of the bore. On deepening to 1456' a soft glauconite band was encountered into which the piece of steel sidetracked. A hard band was encountered at 1458' on which the 6" casing was resealed. Attempts to cement the casing at this depth failed achieved only a

Cementing Operations.

Temporary shut-off. as the bore continued to make water at
6 g.p.h.

~~Foot~~^{6"} (casing cemented at 1483')

With T.D. 1575' - Mudding off sands & carrying bore full of
salt water to hold formation back.

Oil & Gas Shows (cont)

at 1727' level the gas in the strata, surged with such
violence as to cause the water in the casing to overflow
at the top. A sample of this gas was taken & forwarded to
you (H.M.S. Dept) for analysis

Gas pressure still continuing. 1736 - 1745

Gippsland Ltd Co. Ltd. - Gippsland No. 1.

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

690'-705' in W.D.R.: - Light grey polyzonal lime with first appearance of green streaks. The shells ~~are~~ 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 polyzonal lime and fragmentary ^a 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. brown colored coral.

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

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

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

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

1611'-1623' in W.D.R. Hard to soft grey to bluish grey & green shale with some sand & quartz grains:

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

1677'-1687' Alternating bands of shale & brown sandstone

Gippsland-1.

Notes on Gippsland Oil Bores

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

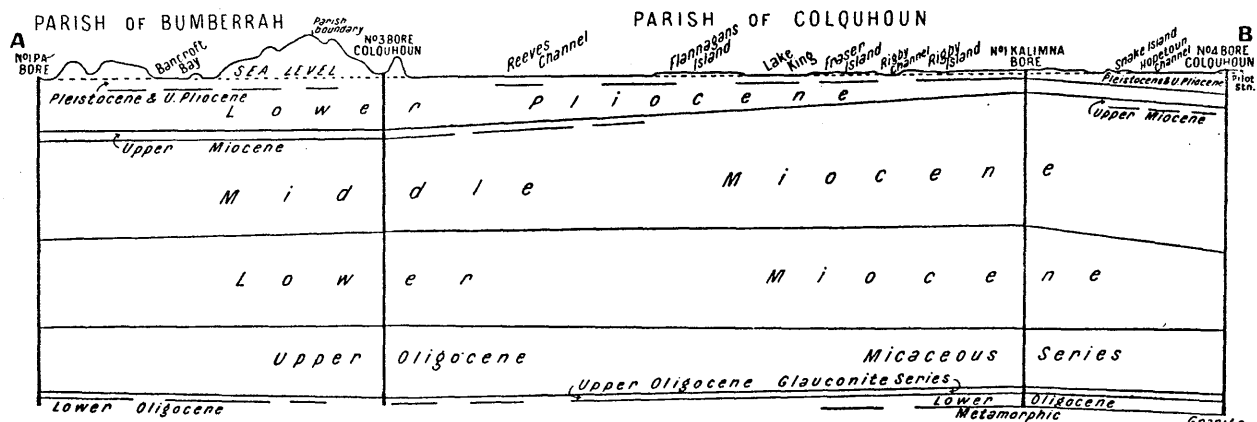
GOVERNMENT BORES.

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 Entrance and Metung. The accompanying west-east 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 and 117). It should be noted that the relation of the 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.

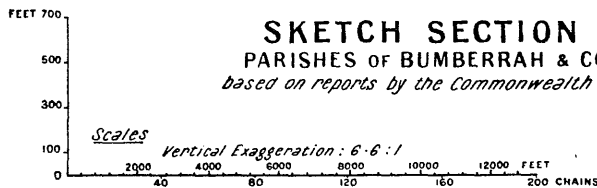
This bore is situated on the shore of Reeves Channel (Lake King), about 20 chains north-easterly of the Nungurner jetty, in the township of Nungurner. No drilling difficulties were encountered until the top of the glauconitic sandstone series was reached at 1,434 feet, when the depth and hard drilling 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



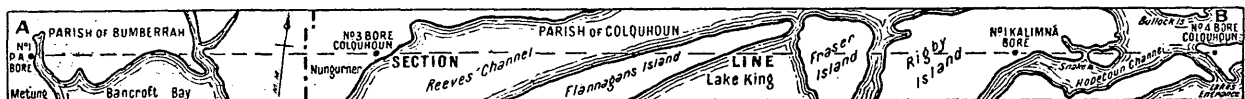
SKETCH SECTION A-B

PARISHES OF BUMBERRAH & COLQUHOUN
based on reports by the Commonwealth Palaeontologist

I. C. H. Croll - B.Sc.
9-8-40



PLAN



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 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:—

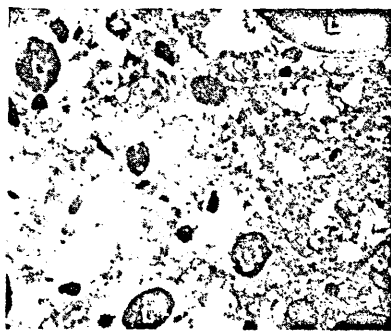
Pleistocene and Upper Pliocene	.. to	100'
Lower Pliocene	.. ..	100'-160'
Upper Miocene	.. ..	174'
Middle Miocene	.. ..	184'-798'
Lower Miocene	.. ..	799'-1,140'
Upper Oligocene, micaceous series	.. ..	1,150'-1,421'
Upper Oligocene, glauconitic series	.. ..	1,421'-1,444'
Lower Oligocene	.. ..	1,484'-1,498'
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

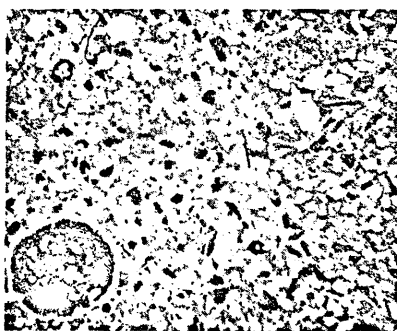
limonite which have a maximum diameter of 1.5 mm. Some of these pellets appear to be homogeneous, whilst others have formed by the deposition of concentric layers of limonite round grains of biotite. In only one respect does this material differ to any extent from that recorded in other bores in the 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 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 feldspar, and fragments of granite, all set in a sideritic and calcareous matrix.

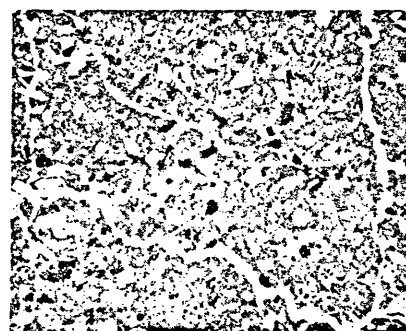
The bore entered solid granite at 1,508 feet, and a piece of core 3 inches long was obtained before drilling was suspended at 1,508 ft. 6 in. (section No. 43,612). The rock has a mottled appearance, due apparently to the pink colour of the orthoclase feldspar and the faint greenish tinge of the plagioclases, and it does not closely resemble the pink granite that is quarried north of Lakes Entrance at Colquhoun. The minerals present are quartz; orthoclase feldspar altering to kaolin; plagioclases (principally oligoclase) with prominent zoning; microcline; biotite altering in part to chlorite; apatite; and ilmenite or magnetite. Potash feldspars appear to predominate over the soda-lime feldspars, 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 segregation 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 ft. 6 in. but without segregations of glauconite.

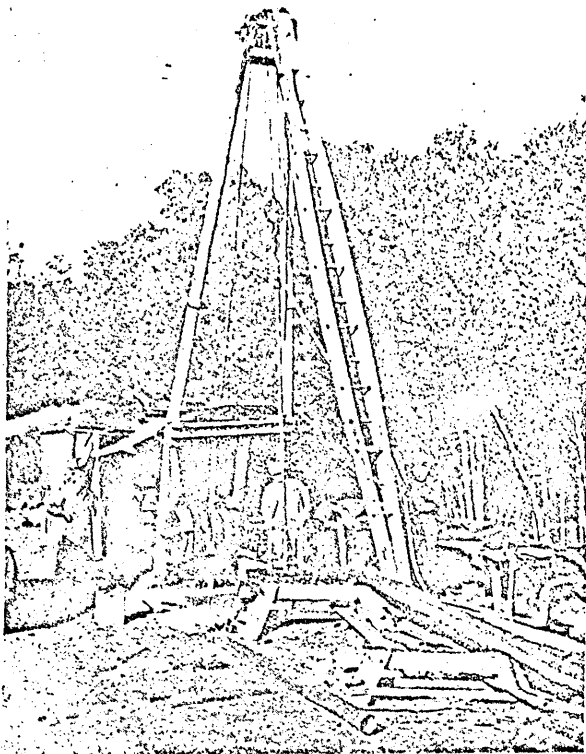
Traces of free oil were recorded in the glauconitic series at 1,441 and 1,443 feet, but the upper part of the series was apparently quite dry.

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 Kalinna West Post Office and State School (Parish of Colquhoun). The stratigraphic sequence has been determined as follows:—

Pleistocene and Upper Pliocene ..	10'-70'
Lower Pliocene	80'-120'
Middle Miocene	130'-700'
Lower Miocene	710'-1,060'
Upper Oligocene, micaceous series	1,070'-1,228'
Upper Oligocene, glauconitic 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.

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.

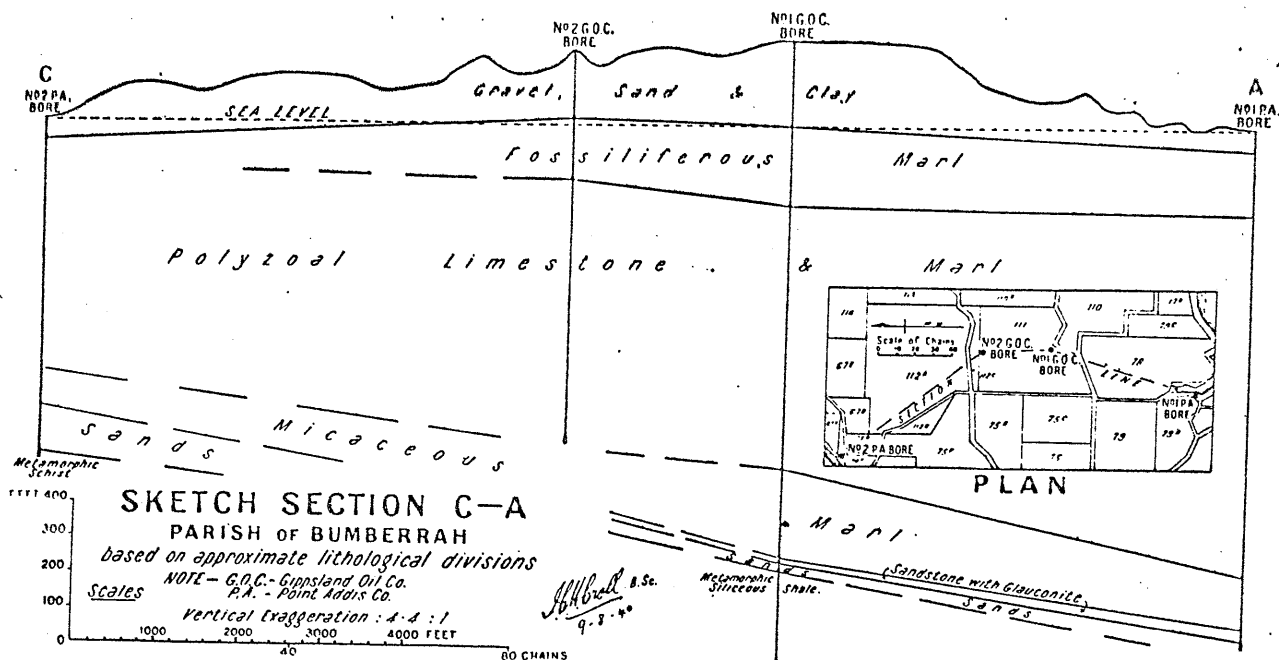
GIPPSLAND OIL COMPANY.

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-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 of the cores have been submitted to the Department as requested, and the following summary is based on an examination of the samples. (Note.—The depths are 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 compacted white quartz sand and clayey sand.
1,483'-1,484'	.. White quartz sand with chips 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.



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 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 well 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.

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 GIPPSLAND

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.
- Concentration (including solids in suspension).—1,160 parts per million.

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%

(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.

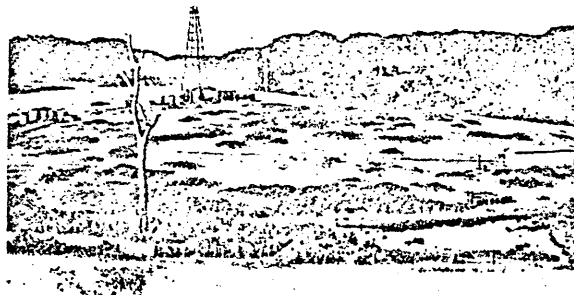
AUSTRAL OIL SYNDICATE.

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.

On 13th May and 13th July, 1940, I witnessed two of these tests, at which the results were as follows:—

	13th May.		13th July.	
Top of fluid column ..	481 feet from surface	..	388 feet from surface	..
.. .. water column ..	1,174 .. " ..	..	1,154 .. " ..	..
Depth of oil column ..	693 feet .. " ..	..	886 feet .. " ..	..
.. .. water column ..	100 .. " ..	..	120 .. " ..	..
Amount of oil ..	849 gallons ..	..	1,074 gallons	..
.. .. water ..	122.5 .. " ..	..	147 .. " ..	..
Time of accumulation ..	38 weeks, 4 days	..	47 weeks, 2 days	..
Rate of accumulation—				
Oil	22.0 gallons per week	..	22.7 gallons per week	..
.. ..	3.1 .. " .. day ..	..	3.2 .. " .. day ..	..
Water	4.4 .. " .. week ..	..	4.1 .. " .. week ..	..
.. ..	0.6 .. " .. day ..	..	0.6 .. " .. 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.]

Appendix 3.0

Weekly Drilling Reports

3.0 Weekly Drilling
Reports

MINES DEPARTMENT: W418
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

24 MAR 1939

Record of work at ... Gippsland Oil Company... NO. J... bore on
* Petroleum Prospecting Licence Number ... 68... during week
ending ... March, 4th, ... 1939...

Depth	Description of Strata
80 feet	The strata is composed of yellow clay carrying sand and gravel. The only noticeable change occurred 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. Almost a grey.

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.

Signed GIPPSLAND OIL COMPANY LIMITED...
Legal Manager Coy
Date 24.1.3.1939

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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 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 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

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

2/62

MINES DEPARTMENT.
Victoria.



MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at ...Gippsland Oil Company...NO.1.... bore on
* ~~Petroleum~~ ~~Prospecting~~ Licence Number68..... during week
~~Petroleum~~ ~~Mineral~~ ~~Lease~~
ending ...March, 11th..... 1939.....

Depth	Description of Strata
175 feet	80 - 85 foot - Yellow clay carrying reddish sand 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 notified 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 noticeable. The flow being of short duration, no sample could be gotten.

Signed *J. W. High*.....
Legal Manager GIPPSLAND OIL COMPANY LIMITED
Date 24.1.39.1939

* Strike out words not applicable.

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

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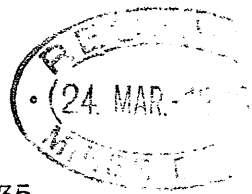
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3162



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Company NO.1 bore on
* ~~Petroleum-Mineral-Lease~~ Petroleum Prospecting Licence Number 68. during week
ending ... March, 18th 1939

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.
	250 - 250'1" - hard sandstone band.
	250'1" -259 foot - Yellow clay rich in shells.
261 feet	259 - 261 foot - Grey shelly marl.

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Casing run to 186 foot. Not cemented.

Signed GIPPSLAND OIL COMPANY, LIMITED. .

Legal Manager *[Signature]* Coy

Date *[24.3.1939]*

* Strike out words not applicable.

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4/62
MAR 25 1939

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at ... Gippsland Oil Company NO. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
) ~~Petroleum-Mineral-lease~~
ending March, 25th ... 1939

Depth	Description of Strata
400 feet	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. 355 - 400 feet - Greenish grey shelly impure limestone.

[Handwritten signature]

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.)

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' 8 $\frac{1}{2}$ ". 8" casing

[Handwritten signature]

Signed

Legal Manager Coy

Date 28/3/39

* Strike out words not applicable.

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

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5/62
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13 APR-1939
MINES DEPT.

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co., NO. 1 bore on
* ~~Petroleum~~ ~~Prospecting~~ ~~Licence~~ ~~Number~~ 68 during week
~~Petroleum Mineral Lease~~
ending ... April, 8th 1939

Depth	Description of Strata
528 feet	528 - 580 feet - Polyzoal limes, alternating in color with light to dark grey. Very friable.
637 feet	580 - 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 coozing into the bore.

J.R. Lightner

April 15 Report missing

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' $10\frac{3}{4}$ ".

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.

J.R. Lightner

Signed *Ruth Courtney*

Legal Manager Coy
Date *12.1.29*

* 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 NO. 1. bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending ... 15/4/39 19

Depth	Description of Strata
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
	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.

*Depth shown
on Analysis
450/1939
24 April 1939*

J. R. Lightner

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Gas increasing and carrying distinct films of oil.

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

Bore cased to 630'-0 $\frac{3}{4}$ " with 6" casing.

Only 4 days drilling due to Easter holidays.

J. R. Lightner

Signed *Ruth Courtney*

Legal Manager Coy
Date / /

* Strike out words not applicable.

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68

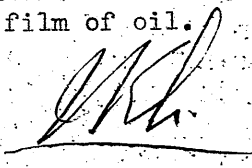
7/62

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co., NO. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending April, 22nd 1939

Depth	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 $\frac{3}{4}$ " 753 - 777 feet - Greenish grey marly lime carrying streaks of brown with finely flaked mica. 777 - 787 feet - Greenish grey fragmentary limestone. 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.
798 feet	Gas increasing with strong film of oil.



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.)

Signed Russ Courtney

Legal Manager Coy
Date 26 APR 1939

* Strike out words not applicable.

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8/62

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co., NO 1 bore on
* Petroleum Prospecting Licence Number 63 during week
~~Petroleum-Mineral-Lease~~
ending April, 29th 1939.....

Depth	Description of Strata
798 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 granular limestone.
858 feet	847 - 858 feet - Greenish grey polyzoal limy marl with large quantity of brownish coral giving the core a brown appearance. Few grains of water worn gravel.

W.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.)

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

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

W.L.

Signed *Rushcourt*

Legal Manager Coy
Date *2.15.39*

* Strike out words not applicable.

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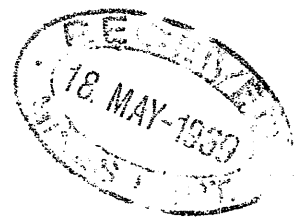
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MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at ... Gippsland Oil Co. NO 1 bore on
* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number 68 during week
ending May, 13th 1939 19

Depth	Description of Strata
858 feet	858 - 864 feet - Green granular limestone with shells and few grains glauconite. 864 - 866 feet - Pure white granular limestone. 866 - 884 feet - Green marly polyzoal lime. 884 - 886 feet - Pure white granular limestone slightly cemented. 886 - 892 feet - Dark green laminated polyzoal marl. 892 - 905 feet - Same as above. 905 - 905'3" - Hard shell band. 905'3" - 907 - Light green polyzoal lime with shells. 907 - 923 feet - Green laminated polyzoal marly lime. 923 - 924 feet - White granular limestone. 924 - 940 feet - Dark green laminated polyzoal limy marl. 940 - 940'1" - Hard blue limestone band with large flakes of mica. 940'1" - 952 - Green polyzoal limy marl. Glauconite grains. 952 - 960 feet - Dark grey laminated polyzoal limy marl with glauconite. 960 - 975 feet - Green limy marl with glauconite. 975 - 977 feet - White granular limestone. From 940'1" - 952 feet distinct films of oil showed in drain during bailing.
977 feet	

[Signature]
May 6th report missing

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Signed *[Signature]*

Legal Manager Coy
Date **16 MAY 1939**

* Strike out words not applicable.

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

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work atGippsland Oil Co. NO. 1..... bore on
* Petroleum Prospecting Licence Number68..... during ⁴ week
~~Petroleum Mineral Lease~~
ending June, 10th 19 39.

Depth	Description of Strata
13/5/39. 977 - 995 feet	- Dark grey laminated marl carrying small amount of sand and finely flaked mica.
13/5/39 995 - 1004 feet	- Green polyzoal limy marl and sand.
20/5/39. 1004 - 1012 feet	- Green polyzoal limy marl.
20/5/39. 1012 - 1014 feet	- Pure white granular limestone.
20/5/39. 1014 - 1023 feet	- Dark grey laminated marl with sand and mica.
27/5/39. 1023 - 1034 feet	- Green limy marl with small shells.
27/5/39. 1034 - 1036 feet	- White granular limestone.
27/5/39. 1036 - 1040 feet	- Dark grey laminated polyzoal marl.
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 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.

J. W. 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. When cased two foot beyond this point no more heaving occurred. A slight caving of the walls occurred from this point to 1061 feet. No caving noticeable 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 remains in evaporating dish. Signed **GIPPSLAND OIL COMPANY LIMITED.**

Legal Manager Director

14 JUN 1939

Date *Kath Courtney* Secretary

* Strike out words not applicable.

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

Mr. Brall
16.6.39

EXTRACT FROM MINES (PETROLEUM) 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 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 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.

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

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at ... Gippsland Oil Company NO. 1 bore on
* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number ... 68 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.

W.K.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 now cased with 6" casing to 1104'5".

Cores, with Baker core barrel, taken every ten foot.

W.K.L.

GIPPSLAND OIL COMPANY LIMITED

..... Director
Ruth Courtney Secretary
Signed

Legal Manager Coy
Date *21.1.61.29*

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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12/2

MINES DEPARTMENT.
Victoria.

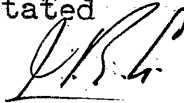
M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

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

Depth	Description of Strata
1131	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 pyrites.
1170	1164-1170 feet-Greenish grey marl.

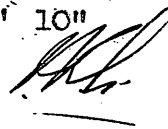
Bit is evidently working in the transition from the middle Miocene to the lower Miocene.

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



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
Arthur Cuthbert.....Secretary

Signed

Legal Manager Coy
Date .30 JUN 1939...

W. H. Brock

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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(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 may be approved by the Minister.

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MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work atGippsland Oil Co. NO. 1..... bore on
* Petroleum Prospecting Licence Number ...68..... during week
~~Petroleum Mineral Lease~~
endingJuly, 1st..... 1939.....

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.
	1181-1188 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.
1203	1196-1203 feet-Brownish grey sandy marl with small shells.

J.H.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 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 Mr's Broell
and
10.7.39*

GIPPSLAND OIL COMPANY LIMITED

Signed*J.H.L.*..... Director
Legal Manager*Nick Courtney*..... Secretary
Date ...7. JUL. 1939...

* Strike out words not applicable.

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

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

See by minister 7/7/39

EXTRACT FROM MINES (PETROLEUM) 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.

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(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 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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MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work atGippsland Oil Company NO. 1... bore on
* Petroleum Prospecting Licence Number ...68..... during week
~~Petroleum Mineral Lease~~
ending .. July, 8th., 1939.,..... 19

Depth	Description of Strata
1203	1203-1206 feet-Brownish grey sandy marl with shells. 1206-1216 feet-Hard green greyish marl.
1235	1216-1226 feet-Brown micaceous sandy marl. 1226-1235 feet-Greenish grey foraminiferal sandy marl.

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' 6 1/2".

Anticipate reaching the glauconite sands at about 1475 feet.

M.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.)

*To Mr. Brooll
17.7.39*

GIPPSLAND OIL COMPANY LIMITED

..... Director
Signed *Rich Courtney* Secretary
Legal Manager Coy
Date **14. JUL. 1939.**...

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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15/62

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Company NO. 1.. bore on
* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number 68..... during week
ending July, 15th.... 1939.....

Depth	Description of Strata
1235	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.
1260	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 ascertain the amount of oil strata is carrying. Equipment has just arrived on the field for this purpose. The percentage of oil is definitely increasing.

W.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 1227'6".

Ground temperature at 1260 feet calculated at 118 degrees F.

W.L.

GIPPSLAND OIL COMPANY LIMITED

*To Mr. Brall
20/7/39*

..... Director
Signed *Pat. G. ...*
Legal Manager Coy
Date .19.1.7.1.39.

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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16/62

MINES DEPARTMENT.
Victoria.

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-~~
ending July 22nd, 19³⁹.....

Depth	Description of Strata
1260	1260-1261 feet-Brownish grey micaceous shelly marl with pyrities. 1261-1268 feet-Dark brown micaceous marl. Sands consist mainly of limestone and silica. Dark color due to iron. At 1261'6" a sand stone band 1/2" thick was cored.
1276	1268-1271 feet-Dark brown micaceous sandy marl with pyrities. 1271-1276 feet-Brownish grey foraminiferal sandy marl with pyrities.

W.H.

*July 15
1295-1240*

6-25

16
25
32
35
39
35

3 slow

20

*To the well
27.7.39*

119 for 4 inches

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.)

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 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 1269'6"
GIPPSLAND OIL COMPANY LIMITED

Three days drilling time lost during week. Signed Director
W.H.
Legal Manager *Ruth Courtney* Secretary
Date *July 26 1939*

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

EXTRACT FROM MINES (PETROLEUM) 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.

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MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work atGippsland.Oil.Co.,.NO.1..... bore on
* ~~Petroleum Prospecting Licence~~ Number68..... during week
~~Petroleum Mineral Lease~~
ending ...July, 29th, 1939.... 19

Depth	Description of Strata
1276	1276-1281 feet-Brown micaceous sandy marl with shells.
	1281-1290 feet-Brownish grey shelly sandy marl with pyrities.
1294	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
Thursday at 5 p.m.



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.)

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



GIPPSLAND OIL COMPANY LIMITED

.....Director

Signed.....Secretary...

Legal Manager Coy
Date / /

* Strike out words not applicable.

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

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18/62

MINES DEPARTMENT
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

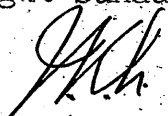
Record of work atGippsland Oil Co., NO. 1..... bore on
* Petroleum Prospecting Licence Number68..... during week
~~Petroleum-Mine-at-Lease-~~
endingAugust, 5th, 1939.... 19

Depth	Description of Strata
1294	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 metasomatically 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. 1315-1315 feet-Greenish grey sandy marl.
1315	



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 1288' 1/2". Hole under-reamed and casing free.
Third shift started at midnight Sunday night.



GIPPSLAND OIL COMPANY LIMITED

.....Director

SignedSecretary

Legal Manager Coy

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

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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 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 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.

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

19/62

MINES DEPARTMENT.

Victoria.

MINES (PETROLEUM) ACT 1935.

Section 45.

Record of work at Gippsland Oil Co., NO. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending August 12th, 1939, 19

Depth	Description of Strata
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.
1350	1340-1345 feet-Light brown shelly micaceous sandy marl and pyrities. 1345-1350 feet-Brown micaceous sandy marl.

J. 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 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.

J. H.

GIPPSLAND OIL COMPANY LIMITED

Signed Director

Legal Manager Secretary

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

* 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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(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 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 DEPARTMENT.

Victoria.

MINES (PETROLEUM) ACT 1935.

Section 45.

Record of work at Gippsland Oil Co. NO 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending August, 19th 1939.....

Depth	Description of Strata
1350	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.
1390	1385-1390 feet-Hard greyish brown marl.

J.A.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 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 successful within a reasonable time we will procede to drill it up. Except for the loss of time, this will not interfere with the continuing of the bore.

J.A.H.

GIPPSLAND OIL COMPANY LIMITED

Signed Director
Legal Manager Secretary
Date Coy

* 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.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Co. NO. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending August, 26th 1939 19

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

J.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.)

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 shape and casing free.

Gas and oil showing is very encourageing.

GIPPSLAND OIL COMPANY LIMITED

Signed Director

Legal Manager Secretary Coy

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

* 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.
Victoria.

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-~~
ending September 16th... 1939.....

Depth Description of Strata

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

J.R.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.)

J.R.H.

GIPPSLAND OIL COMPANY LIMITED

Signed J.R.H.

Legal Manager Coy

Date .. 10/11/39 ..

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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MINES DEPARTMENT.
Victoria.

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~~
ending September 23rd ... 1939.....

Depth Description of Strata

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

J.R.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.)

J.R.L.

GIPPSLAND OIL COMPANY LIMITED

Signed *[Signature]*

Legal Manager Coy

Date 10.10.39

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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24/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Company NO. 1.... bore on
* Petroleum Prospecting Licence Number ... 68..... during week
~~Petroleum-Mineral-lease-~~
ending . September 30th..... 1939.....

Depth	Description of Strata
1449	After drilling out cement which was left inside of casing, the amount 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 during the week.

J.R.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 notified immediately water, gas, or petroleum is encountered.)

J.R.H.

GIPPSLAND OIL COMPANY LIMITED

Signed
Legal Manager Coy
Date 10.10.39

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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MINES DEPARTMENT.
Victoria.



M I N E S (P E T R O L E U M) A C T
Section 45.

Record of work at Gippsland Oil Company NO 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending October, 7th 1939

Depth	Description of Strata
1456	At this depth we entered a soft glauconite into which piece of steel has sidetracked. We started coring 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.
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 bring 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 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 arrive 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.

J.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 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.

J.H.

GIPPSLAND OIL COMPANY LIMITED

Signed *J.H.*

Legal Manager *J.H.* Coy

Date *10.10.39*

* Strike out words not applicable.

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

508

EXTRACT FROM MINES (PETROLEUM) 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.

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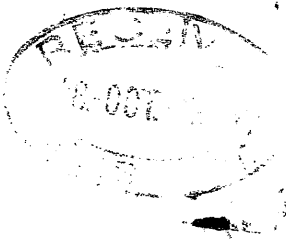
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26/62



M/bore

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
ending ...14/10/39..... 19

Depth Description of Strata

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 and found to be making water at the rate of 6 gallons per hour. This was considered sufficient for a temporary shut-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 possibly 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 shark teeth.

1462

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 series in this district. Should this prove to be correct, then, very valuable information should be obtained.

J.H.C.

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

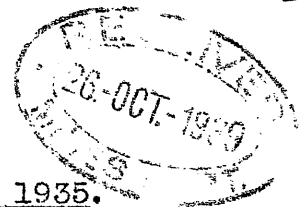
J.H.C.

Signed
Legal Manager Coy
Date 18.10.1.39.

* Strike out words not applicable.

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

27/62



MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at ... Gippsland Oil Company... NO. 1... bore on
* Petroleum Prospecting Licence Number 68
~~Petroleum Mineral Lease~~
ending ... October, 21st, 1939. 19 and including 23/10/39

Depth	Description of Strata
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-----A thin band of hard greenish brown sandstone.
	1471-1475-Fine silti sand with carbonaceous material.
	1475-1476-Quartzly 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, glauconite, and carbonaceous material. When we resumed operations on Thursday 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.

1483

[Signature]

Bitumen was picked up by the bailer at the 1482 foot level - sample retained J.H.L.

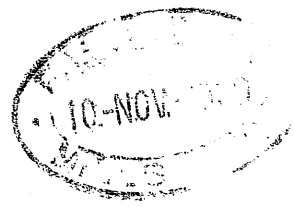
Notes by Driller in Charge (State in notes, whether water, gas, or petroleum has been met with, and, if so, give depth and nature of occurrence, also depth to which casing has been inserted and cemented. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

[Signature]

- 1. *Secretary*
- 2. *in charge*
- 3. *in charge*

Signed *[Signature]*
 Legal Manager
 GIPPSLAND OIL COMPANY LIMITED
 Date *25.10.39*

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



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work atGippsland Oil Company, NO. 1..... bore on
* ~~Petroleum Prospecting Licence~~ Number68..... during week
~~-Petroleum Mineral Lease~~
ending ..November 4th, 1939..... 19

Depth Description of Strata

1482

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

- 1483-1484-Fine to coarse quartzly sand with pyrities. Pieces of bitumen, and free oil showing.
- 1484-----Band of grey shale. All fragments of this shale showed a curvature of large radius.
- 1485-1495-Fine quartzly 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.

All the above formation carried oil 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.

Your Mr. Croll was at the bore from 31/10/39 to 4/11/39.

J.R.L.

I arrived at the bore at 1.10 p.m. on 30-x-39, and remained there until 4.10 p.m. Mr. Croll did not arrive at the bore until 9.10 a.m. on 31-x-39.

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.

[Signature]

GIPPSLAND OIL COMPANY LIMITED

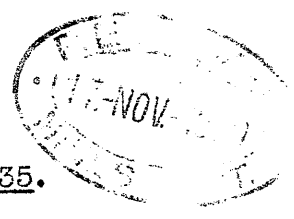
..... Director
Signed *Ruth Courtney* Secretary

Legal Manager
Date .. 9. / 11. / 39 Coy

* Strike out words not applicable.

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

29/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work atGippsland Oil Company..NQ.1.... bore on
* Petroleum Prospecting Licence Number63..... during week
~~Petroleum Mineral Lease~~
ending11/11/39..... 19

Depth	Description of Strata
1500	1500-1504-Dark brown sandy carbonaceous clay. 1504-1505-Dark brown carbonaceous sandstone. 1505-1506-Dark brown laminated micaceous material, having the appearance of a carbonaceous shale.
1510	1506-1510-Fine flourey grey sand that heaves badly.

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

J.R.L.

10/11/39 = 1500

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.

J.R.L.

GIPPSLAND OIL COMPANY LIMITED

..... Director
Sign *Ruth Country* Secretary

Legal Manager Coy
Date *16/11/39*

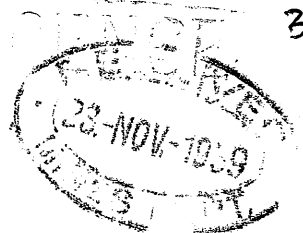
* Strike out words not applicable.

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

68

PET

39/62



MINES DEPARTMENT.
Victoria.

M I N E S . (P E T R O L E U M) . A C T 1935.

Section 45.

Record of work at Gippsland Oil Company.. NO. 1.... bore on
* Petroleum Prospecting Licence Number 68..... during week
~~Petroleum-Mineral Lease~~
ending November 18th 1939.....

Depth	Description of Strata
1510	1510-1515-Fine to coarse grey sand with pyrities, quartz grains, carbonaceous material, and fossils.
	1515-1518-Brown carbonaceous sandstone with fossils.
1533	1518-1533-Brown sandy micaceous formation with carbonaceous material and fossils interbedded with thin bands of sandstone.

... From 1510-1515 the formation heaved badly. Formation stood well from 1515 to 1533 feet.

J.H.

1. Secretary ✓ *B*
2. Mr Wright ✓ *W*
3. Mr Croll ✓ *C*

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.

Have had heavy gas pressure throughout, with oil showing all the way.

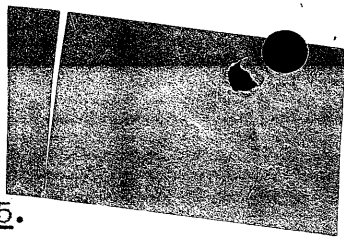
J.H.

Signed
Legal Manager GIPPSLAND OIL COMPANY LIMITED
Date 22/11/39

* Strike out words not applicable.

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

50



EXTRACT FROM MINES (PETROLEUM) 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 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 may be approved by the Minister.

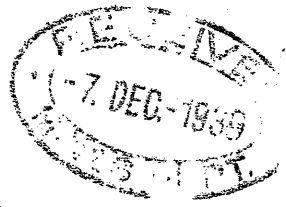
(5) In the event of preliminary tests indicating the probability of payable petroleum, the holder of the licence shall -

(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.

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

3462



MINES DEPARTMENT.

VICTORIA.

M I N E S (P E T R O L E U M) A C T 1935.

Section 45.

Record of work atGippsland Oil Company NO.1..... bore on
* Petroleum Prospecting Licence Number68..... during week
~~Petroleum-mineral-lease~~
ending ..November, 25th..... 19³⁹.....

Depth : Description of Strata

- 1533 1533-1542-Brown sandy micaceous formation with carbonaceous material and marine fossils.
- 1544 1542-1543-Brownish grey sandstone.
- 1544 1543-1544-Brownish grey fine sand.

Due to plant trouble, three days work constituted the weeks work.

W.L.

Secretary ✓
Mr Wright ✓
Mr Coell

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.

W.L.

Signed *J. O. Whipple*

Legal Manager Coy
Date *5.1.21.39*

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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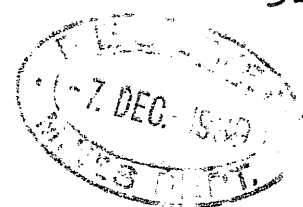
(5) In the event of preliminary tests indicating the probability of payable petroleum, the holder of the licence shall -

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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.

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

32/62



MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work atGippsland..Oil..Co.,NO.1..... bore on
* Petroleum Prospecting Licence Number68..... during week
~~Petroleum Prospecting Licence~~
endingDecember, 2nd..... 1939.....

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

Due to the bad weather, during the week, very little was accomplished.

Bore cased with 6" casing to 1542 feet

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.)

Signed

Legal Manager **GIPPSLAND OIL COMPANY LIMITED**

Date ..3.7.12.39

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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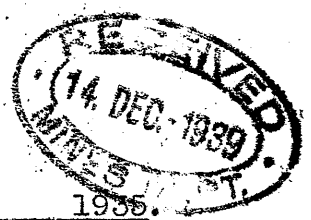
(5) In the event of preliminary tests indicating the probability of payable petroleum, the holder of the licence shall -

(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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33/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work atGippsland Oil Company NO 1..... bore on
* ~~Petroleum~~ ~~Prospecting~~ ~~Licence~~ ~~Number~~68..... during week
~~Petroleum~~ ~~Mineral~~ ~~lease~~
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.

[Signature]

- 1 Secretary ✓
- 2 Inwards ✓
- 3. Mr Croll

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.)

X 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.

[Signature]

Signed *[Signature]*

Legal Manager
Date 13/12/39 Coy

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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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.

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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 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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MINES DEPARTMENT.
Victoria.



MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Company... bore on
* Petroleum Prospecting Licence Number 68..... during week
Petroleum Mineral Lease
ending December 16th..... 1939....

No. 1

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.

J.R.L.

- 1. No 2 Bore ✓ 21/12
- 2. No 2 Bore ✓ 21/12
- 3. No 2 Bore ✓ 21/12/39

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.)

85 foot of 8" casing remains in No 1 Bore.
217'-11" having been withdrawn for use
in No 2 Bore

J.R.L.

Signed *J. Whyte*
GIPPSLAND OIL COMPANY LIMITED
Legal Manager **118 QUEEN ST. MELBOURNE** Coy
Date/.../.....

* 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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35/62

MINES DEPARTMENT.
Victoria,

MINES (PETROLEUM) ACT 1935.
Section 45.



Record of work at Gippsland Oil Co. No. 1 bore on
* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number 68 during week
ending 23-12-39 19

Depth

Description of Strata

1555 - No operations carried out during this
Period pending negotiations for 5" casing
and its arrival on the field.

J.R.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.)

GIPPSLAND OIL COMPANY LIMITED

..... Director
Signed J.R.L. Secretary
Legal Manager Coy
Date 23.12.39

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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MINES DEPARTMENT.
Victoria.



M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co. No. 1 bore on
* ~~Petroleum Prospecting Licence~~ Number 68 during week
~~Petroleum Mineral Lease~~
ending 30.12.39 19.....

Depth Description of Strata

No operations due to Holidays

J.P.

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.)

J.P.

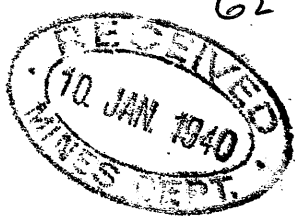
GIPPSLAND OIL COMPANY LIMITED

..... Director
Signed *[Signature]* Secretary
Legal Manager Coy
Date 9.1.1.40

* Strike out words not applicable.

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

37/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 15.

Record of work at Gippsland Oil Co. No. 1 bore on
* ~~Petroleum~~ Prospecting License Number 68 during week
~~Petroleum Mineral Lease~~
ending 6-1-40 1940

Depth Description of Strata

No operations, waiting 5" casing.
[Signature]

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.)

[Signature]

GIPPSLAND OIL COMPANY LIMITED

..... Director
Signed *[Signature]* Secretary

Legal Manager Coy
Date 9.1.40

* Strike out words not applicable.

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

381 62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 15.

Record of work at Gippsland Oil Companies NO 1 bore on
* Petroleum Prospecting Licence Number ... 68 during week
~~Petroleum Mineral Lease~~
ending January, 13th 1940.....

Depth Description of Strata

1555 foot.

No footage was made during the week while waiting on 5" casing.
The five inch has now been delivered on the field and at this writing 16/1/40 is being run.
Should be able to start drilling on Friday of this week.

W

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 57'11"

Signed
Legal Manager
Date 18/1/40

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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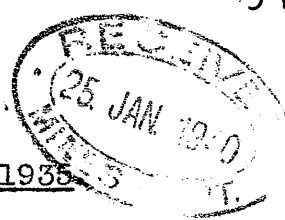
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39/62

MINES DEPARTMENT.
Victoria.



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-~~
ending January.. 20th..... 1940.....

Depth	Description of Strata
1555	1555-1558-Dark brown micaceous sandy marl with fossils.
1558	

After the five inch casing arrived 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.

J.H.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.)

5" casing run to 1553' 11".

J.H.L.

[Signature]

Signed
Legal Manager GIPPSLAND OIL COMPANY LIMITED
Date 28.1.40 QUEEN ST. MELBOURNE Coy

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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 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 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.

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

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

MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Company's NO. 1... bore on
* Petroleum Prospecting Licence Number 68 during week
~~--Petroleum-Mineral-lease~~
ending January, 27 19 40



Depth Description of Strata
1558 feet.

During the week no drilling progress was made on this bore as it became necessary for revisions 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.

[Handwritten signature]

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.)

[Handwritten signature]

Signed *[Signature]*
GIPPSLAND OIL COMPANY LIMITED
Legal Manager *[Signature]* Coy
Date *[Signature]* 1940

* Strike out words not applicable.

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

EXTRACT FROM MINES (PETROLEUM) 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.

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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 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 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.

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

41/62

MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Company... NO. 1... bore on
* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number 68 during week
ending ... February, 3rd 1940.....



Depth	Description of Strata
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.

[Handwritten signature]

[Handwritten notes:]
1. ~~See page 2~~
2. Mr. Waith
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
1565-1569 feet. Strongest flow of gas so far encountered in this 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.

[Handwritten signature]
Signed *[Signature]*
Legal Manager COY
Date/...../.....
GIPPSLAND OIL COMPANY LIMITED

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

EXTRACT FROM MINES (PETROLEUM) 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.

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(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 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 -

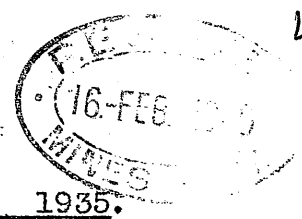
(a) immediately report thereon to the Minister in writing; and

(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.

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

42/62

MINES DEPARTMENT.
Victoria.



MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work atGippsland Oil Company NO.1... bore on
* Petroleum Prospecting Licence Number69..... during week
~~Petroleum Mineral Lease---~~
endingFebruary 10th..... 19 40.....

Depth Description of Strata

&1587&

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

Signed
Legal Manager
Date.....
GIPPSLAND OIL COMPANY LIMITED
Gov Director

* Strike out words not applicable.Secretary

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

EXTRACT FROM MINES (PETROLEUM) 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.

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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 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 -

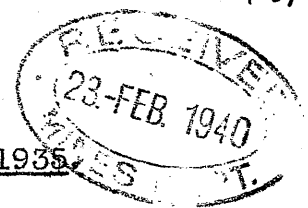
(a) immediately report thereon to the Minister in writing; and

(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.

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

43/62

MINES DEPARTMENT.
Victoria.



M I N E S (P E T R O L E U M) A C T 1935
Section 45.

Record of work at Girard Oil Company, No. 1 bore on
* Petroleum Prospecting Licence Number during week
Petroleum Mineral Lease
ending17./2./40..... 19

Depth	Description of Strata
1587	1587-1595-Light green shale.
	1595-1599-Sandy green shale.
1603	1599-1603-Greenish blue sticky shale.

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 district has been so similar to any other producing bores as this one.

[Handwritten signature]

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 to 1570 foot.

Gas and tar oil showing in sandy shale.

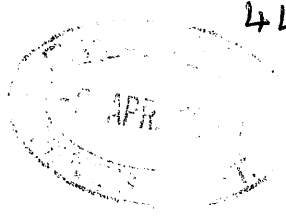
[Handwritten signature]

Signed *[Signature]* Secretary
Legal Manager Coy
Date .../.../.....

* Strike out words not applicable.

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

44/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at ... Gippsland Oil Company NO. 1 bore on
* Petroleum Prospecting Licence Number ... 68 ... during week
~~Petroleum Mineral Lease~~
ending ... February, 24th ... 1940 ...

Depth Description of Strata

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.

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.)

Signed
Legal Manager Coy.
Date/...../.....

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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

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

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

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

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

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

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

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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



MINES DEPARTMENT
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at ... Gippsland Oil Company NO. 2, bore on

* Petroleum Prospecting Licence Number ... 68 ... during week
Petroleum-Mineral-Lease- ending .. March 2nd .. 1940 ..

Depth Description of Strata

1603	1603-1611- Alternating green to grey shale bands.
1611	Water broke through from behind casing bringing sand into bore. Casing was lowered to 1604 feet shutting off sand.

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

Bore cased with 5" casing to 1604 feet

Signed *J.P.D. High* secretary
Legal Manager
Date *20.3.40*
GIPPSLAND OIL COMPANY LIMITED Coy.

* Strike out words not applicable.

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

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.

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(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
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MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

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

* Petroleum Prospecting Licence Number 68 during week
Petroleum Mineral Lease
ending .. March, .. 9th 1940

Depth Description of Strata

1611
1623

1611-1623- Hard to soft grey to bluish grey and green shales
with some sand and quartz grains.

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 5" casing to 1604 feet.

Signed Secretary
GIPPSLAND OIL COMPANY LIMITED
Legal Manager Coy.
Date 30.3.40

* Strike out words not applicable.

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

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.

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Section 7 (6). Every licensee shall -

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MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 43.

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

* ~~Petroleum Mineral Lease~~ Petroleum Prospecting Licence Number 63 during week
ending .. March, 16th, 1940

Depth	Description of Strata
1623	1623-1643- Alternating Greenish, Bluish, and grey shales carrying about 2% by volume of water worn sands and quartz grains with small inclusion of pyrities.
1648	grains with small inclusion of pyrities.

Drilling progress satisfactory with only one shift working.

[Handwritten signature]

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 5" casing to 1604 feet.

[Handwritten signature]

Signed
Legal Manager GIPPSLAND OIL COMPANY LIMITED
Date 21/3/40 Director

* Strike out words not applicable.

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

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.

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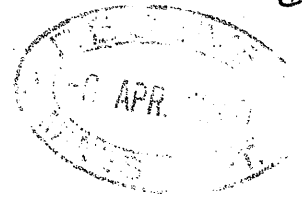
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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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.

48/62



MINES DEPARTMENT
Victoria

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Company NO. 1 bore on
* Petroleum Prospecting Licence Number 63 during week
Petroleum Mineral Lease
ending March 23 1940

Depth Description of Strata

~~1648-1657~~

1648 1648-1657 Hard sandy shale. Large percent of fine to medium
1657 coarse sand.

Bore was closed down 20/3/40 on account Easter.

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.)

Signed
Legal Manager Coy.
Date/...../.....

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935.

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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MINES DEPARTMENT.
Victoria.

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~~

ending March 30th 1940

Depth Description of Strata

1657 1657-1669- Fine to coarse sand bound together with a
1669 shaley material.

Bore was closed down from 20/3/40 to 27/3/40 on
account Easter 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 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

Legal Manager Coy.
Date/...../.....

* Strike out words not applicable.

Analyses of water, gas and oil should be submitted if avail-
able.

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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(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.

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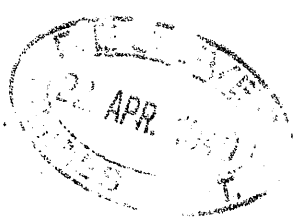
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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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.



MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Co. No. 1 bore on
Petroleum Prospecting Licence Number 68 during week
* ~~Petroleum Mineral Lease~~ ending April 6th 1940

Depth Description of Strata

1669 - 1669-1677 - Hard sandy shale.
1677

[Handwritten signature]

- 1. Secretary
- 2. ~~M. Wright~~ ✓
- 3. Mr. Croll

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.)

[Handwritten signature]

GIPPSLAND OIL COMPANY LIMITED

Signed *[Signature]* Director
[Signature] Secretary
Legal Manager Coy.
Date/...../.....

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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MINES DEPARTMENT.
Victoria.

MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Co. No. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
Petroleum Mineral Lease ending April 13 1940

Depth Description of Strata

1677- 1677- 1687- Alternating Bands of Shale and
brown ~~the~~ sandstone,
J.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 notified immediately water, gas, or petroleum is encountered.)
J.H.

GIPPSLAND OIL CO. No. 1
Signed *[Signature]* Director
[Signature] Secretary
Legal Manager Coy.
Date/...../.....

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



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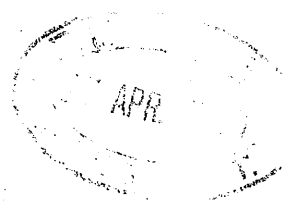
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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

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MINES DEPARTMENT
Victoria.

M. I. N. E. S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Lyell Island Oil Co. No. 1 bore on
* Petroleum Prospecting Licence Number 108 during week
Petroleum Mineral Lease ending April 30th 1940

Depth	Description of Strata
1687' - 1690'	Hard fine grained sandstone with mica
1690' - 1691'6"	Compact shale with sand
1691'6" - 1693'	Dark grey sandy shale
1693' - 1696'	light grey sandy shale
1696' - 1697'	light grey sandy shale 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 inserted and cemented. N.B. The Act also requires the Minister to be notified immediately water, gas, or petroleum is encountered.)

Drilling suspended for 1 1/2 days whilst splicing new rope on drilling cable & fitting new flange on Bull wheel drum.

Signed L. H. Macdonald
Asst. Engineer
Legal-Manager Lyell Island Oil Coy.
Date 20/4/40

J. Whyte Secretary

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

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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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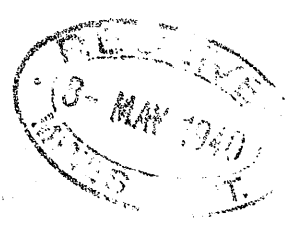
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Section 7 (6). Every licensee shall -

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MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co No 1 bore on

* Petroleum Prospecting Licence Number 68 during week
Petroleum Mineral Lease ending April 27th 1940

Depth	Description of Strata
1697' - 1698'	Grey sandy shale
1698' - 1700'	light grey shale with thin seams of Kaolin
1700' - 1702'	Fairly hard sandstone with shaley material

~~1. casing~~ ✓
~~2. in water~~ ✓
~~3. in case~~ ✓

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

5" casing lowered to 1666' 2 1/2"

GIPPSLAND OIL COMPANY LIMITED

Signed *[Signature]* Director
 Legal Manager *[Signature]* Coy.
 Date

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935,

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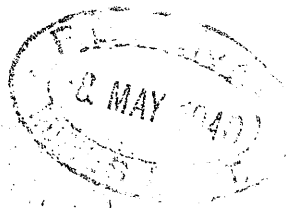
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MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Island Oil Co No 1 bore on

* Petroleum Prospecting Licence
Petroleum Mineral Lease Number 68 during week

ending May 4th 1940

Depth

Description of Strata

1702'-1704'

Fairly hard shaley sandstone with a quartz stringer. Also a thin layer of olive green shale.

1704'-1705'

Calcareous shaley sandstone with fair showing of petroleum gas.

1705'-1706'

Calcareous sandy shale with pyrites

1. ~~Mr. ...~~
2. ~~Mr. ...~~
3. ~~Mr. ...~~

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.)

A fairly strong showing of gas with bubbles with films of oil appeared in the slurry when baling from the 1705' level. The stratum also showed reaction to HCl generating CO₂ but the fragments of shell were too small for classification. Sand broke in from behind casing at 5 PM on 2-5-40 & rose 30' in the hole. The 5" casing was lowered to 1682'4" in an endeavour to shift it off.

Signed Island Oil Company Limited
Legal Manager [Signature] Coy.
Date 7/4/40 Secretary

E. W. Macdonald
Asst. Engineer

* Strike out words not applicable.

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

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MINES DEPARTMENT.
Victoria.

M I N E S. (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co. No. 1 bore on

* Petroleum Prospecting Licence Number ...68... during week
Petroleum Mineral Lease

ending ~~11.5.40~~ 11th May 1940...

Depth	Description of Strata
1705'-6" - 1706'-6"	Calcareous shaley sandstone with qty stringers and pyrites
1706'-6" - 1707'-6"	Dark green micaceous shale
1707'-6" - 1709'	Dark grey sandy shale
1709' - 1710'	Dark grey shaley sandstone
1710' - 1711'	Thin layers of green micaceous shale and grey sandstone with pyrites.
1711' - 1713'	Light grey shaley sandstone
1713' - 1715'	Darker grey shaley sandstone

E. H. Macdonald
Asst. Engineer

- 1. ~~Company~~
- 2. ~~Driller~~
- 3. ~~for~~ Crall

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.)

gas encountered last week still persisting, but in slightly lesser quantities.

Signed GIPPSLAND OIL COMPANY LIMITED.

Legal Manager Director Coy.

Date 13/5/40 Secretary

* Strike out words not applicable.

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

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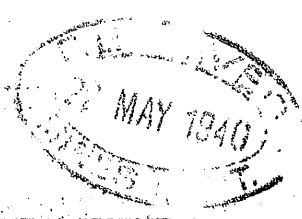
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- 1. Secretary
- 2. Mr. Wraith
- 3. Mr. Croll



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45. *oil ce*

Record of work at *Gippsland No 1 Bore* bore on

* Petroleum Prospecting Licence Number *68* during week
 Petroleum Mineral Lease ending *18th May 1940*

Depth	Description of Strata
1715' - 1716'	Light grey shaley sandstone with Qty. stringers.
1716' - 1717'	Hard grey sandstone
1717' - 1720'	Bluish grey shale with very little sand.
1720' - 1722'	Dark grey shale
1722' - 1724'	Dark grey shale
1724' - 1726'	Dark grey shale

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.)

Gas Pressure increased at 1724' level & could be set alight in the drain.

E. H. Macdonald
Act. Engineer

Signed **GIPPSLAND OIL COMPANY LIMITED**
 Legal Manager Coy. Director
 Date *18th May 1940* Secretary

* Strike out words not applicable.

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1935.

AS AMENDED BY THE MINES (PETROLEUM) ACT 1939.

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- ~~1. Scamby~~
- ~~2. W. W. W. W.~~
- 3. Mr. Croll



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Gippsland Oil Co No 1 bore on

* Petroleum Prospecting Licence Number 68 during week
 Petroleum Mineral Lease ending May 25th 1940

Depth	Description of Strata
1726' - 1727'	Dark grey sandy shale
1727' - 1728'	Dark grey sandy shale
1728' - 1736'	Light to dark grey shale

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

At 1727' level the gas in the strata surged with such violence as to cause the water in the casing to overflow at the top. A sample of this gas was taken & forwarded to you for analysis.

*76 Crown
advised
12/30/40*

GIPPSLAND OIL COMPANY LIMITED

Signed *J. M. D. H. G.* Director
 Legal Manager Secretary
 Date/...../.....

* Strike out words not applicable.

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

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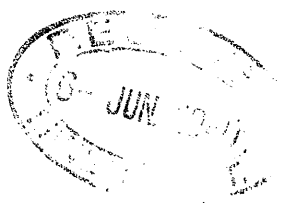
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- and, when so required by the Minister, forward the same to the Minister.

58162



- 1. ~~Crusby~~
- 2. ~~In Worth~~
- 3. In Coll.

MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

Record of work at Lyphland Old No. 1 bore on
 * Petroleum Prospecting Licence Number 68 during week
 Petroleum Mineral Lease ending June 1st 1940

Depth	Description of Strata
1736' - 1740'	Dark grey shale
1740' - 1742'	Dark grey shale with quartz stringers
1742' - 1745'	Dark grey fine grained sandstone with quartz stringers

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

gas pressure still persisting

Signed *J. White*
 Legal Manager Coy.
 Date

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

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

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

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

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

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

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

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

EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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

MINES DEPARTMENT.
Victoria.



MINES (PETROLEUM) ACT 1935.
Section 45.

Record of work at Gippsland Oil Co. No. 1 bore on

* Petroleum Prospecting Licence Number 68 during week
Petroleum Mineral Lease ending June 8th 1946

Depth Description of Strata

1745' - 1746'	Light grey friable sandstone with pyrites & lime possibly in form of Dolomite.
1746' - 1749'	Friable light grey sandstone
1749' - 1751'	Friable light grey sandstone with thin streak of Quartzite
1751' - 1755'	Light grey sandstone with pyrites but no lime.

* ~~Mr. Smith~~
~~Mr. Smith~~

E. H. Macdonald
Asst. Engineer

3. Mr. Small 12/1/46

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
Signed
Legal Manager Secy.
Date
11/6/46

* Strike out words not applicable.

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

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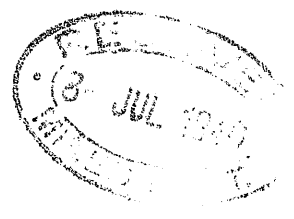
Section 48. Every licensee and every lessee, unless in any case wholly or partially excused from so doing by the Minister, shall properly case each well with casing in accordance with the best approved methods, landing and effectually cementing one or more strings of the casing in clay or other water-impervious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

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- ~~1. Mr. ...~~
- 2. Mr. Kraitch
- 3. Mr. Croll.



MINES DEPARTMENT.
Victoria.

M I N E S. (P E T R O L E U M) A C T 1935.
Section 45.

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

* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
 ending 15th June 1940

Depth	1763 feet	Description of Strata
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1755 - 1763 feet - Light grey sandstone with pyrites also Dolomite 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 volume.

W. 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 notified immediately water, gas, or petroleum is encountered.)

GIPPSLAND OIL COMPANY LIMITED
 Director
 Signed *J. Whyte* Secretary
 Legal Manager Coy.
 Date 15 JUL 1940

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

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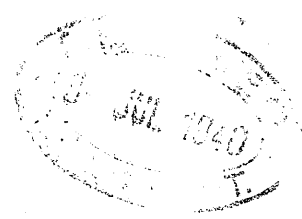
- (a) immediately report thereon to the Minister in writing; and
- (b) carry out thereafter such operations as may be necessary to test the value of the occurrence of such petroleum as may be approved by the Minister.

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EXTRACT FROM THE MINES (PETROLEUM) ACT 1939.

Section 7 (6). Every licensee shall -

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MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 43.

Record of work at GIPPSLAND OIL COMPANY'S NO. 1 bore on
* Petroleum Prospecting Licence Number 68 during week
~~Petroleum Mineral Lease~~
ending 22nd, June 1940.

Depth 1766 feet Description of Strata

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.

W. 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 notified immediately water, gas, or petroleum is encountered.)

GIPPSLAND OIL COMPANY LIMITED

Signed *J. C. Whyte* Director
Legal Manager Coy.
Date 1940

* Strike out words not applicable.

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

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62/62



MINES DEPARTMENT.
Victoria.

M I N E S (P E T R O L E U M) A C T 1935.
Section 45.

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

* Petroleum Prospecting Licence Number ..68 during week
Petroleum Mineral Lease

ending ..29th June 19..40

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. The main cause of the trouble has not yet been located. It is 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.

Handwritten signature

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 *[Signature]* Director
Legal Manager Coy.
Date 2 JUL 1940

* Strike out words not applicable.

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

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Appendix 4.0

Lithology

4.0 Lithology

Lippeland No 1. Lippeland Oil Co Ltd.
 Oil & Gas Shows taken for weekly reports
 submitted by the Company to the Department.

Report for Week ending.	Depths (for week).	Notes.
11 th March 1939.	at 175'	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 was of the throat resulted. No odour was noticeable. The flow being of short duration, no sample could be got.
8 th April 1939.	528'-637'	On cutting sample of formation the evaporating dish shows a distinct residue of oil.
15 th April 1939.	637'-705'	Gas increasing and carrying distinct films of oil.
22 nd April 1939.	705'-798'	Gas increasing with strong film of oil.
29 th April 1939.	798'-858'	Volume of gas slightly increasing as bore is deepened. Formation too tight to expect much gas. All gas bubbles carry heavy oil film.
13 May 1939.	—	From 940' - 952' distinct films of oil showed in drain during bailing.
10 June 1939	977'-1096'	At When core is cut with chloroform a heavy residue of oil remains in evaporating dish.
1 st July 1939	1170'-1203'	Gas has increased in volume & films of oil are showing stronger on trench.
8 July 1939.	—	Core taken at 1226' 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.

15th July 1939 1235'-1260'. Starting this week quantitative analyses will be made of each core to ascertain the amount of oil strata is carrying. The percentage of oil is definitely increasing.

22nd July 1939. — A quantitative test was made of the sandstone band at 1261'. 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 soluble 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.

12 Aug 1939 — From the 1345 foot level globules of oil are appearing on the trench with the slurry.

26 Aug 1939 1390-1405. Gas and oil showing is very encouraging.

7th Oct 1939 — Strong flow of gas was encountered at 1456 feet, interfering with bailing operations when water had been bailed to within 200 feet of bottom.

14th Oct 1939 — A very strong flow of gas was encountered between 1456-1458'. This was cemented off by casing.

21st Oct 1939. — 1480'-1482' After ~~bottom~~ Hole was bailed + next morning oil ~~again~~ had made its appearance in the bore. This reported as at 1482'. 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 subside to its normal level of 255 feet. This indicates a surging gas. Bitumen was picked up by the bailer at the 1482 foot level.

Continued

- 4th Nov 1939. 1482'-1500' 1483'-1484' Pieces of bitumen + free oil showing. All the formation (1482'-1500' El.) carried out. Gas + oil showing freely.
- 11th Nov 1939. 1500'-1510' Gas is showing with quite a pressure, and oil is very much in evidence in the boiler.
- 18th Nov 1939. 1510'-1533' Have had heavy gas pressure throughout, with oil showing all the way.
- 25th Nov 1939. 1533'-1544' Gas very strong with oil showing all the way.
- 9th Dec 1939. 1550'-1555' Samples of formation when brought to surface contain oil. Gas, as before, is strong.
- 3 Feb 1940. — 1565'-1569' Strongest flow of gas so far encountered in this bore and carried a strong ~~petroleum~~ petroleum odour and distinct showing of oil.
- 10th Feb 1940. 1587'-1603' Gas + tar oil showing in sandy shale (1595'-99' El.)
- 4th May 1940. — A fairly strong showing of gas bubble with films of oil appeared in the slurry when bailing from the 1705' level.
- 11th May 1940. 1705 6" - 1715' Gas encountered last week still persisting, but in slightly lesser quantities.
- 18th May 1940. Gas pressure increased at 1724 foot level and could be set alight in the drain.
- 25th May 1940. At 1727' level the gas in the strata surged with such violence as to cause the water in the casing to flow at the top.
- 1 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 1724 to 1747 foot level as the present formation is too highly cemented to hold any appreciable volume.
- 22 June 1940. — Gas pressure strong but as stated in last report I believe it to be from 1724'-1747'.

Last report on file dated 22 June 1940.

GIPPSLAND OIL COMPANY LIMITED

LOG

OF

NO. 1 BORE

W 4/18.

GIPPSLAND

NO. 1 BORE

W 418

Commenced operations 29/2/1939

0 - 80 feet	Sandy yellow clay carrying fine gravel
80 - 85 "	Yellow clay carrying reddish sand and fine flaked mica
85 - 90 "	Yellow clay with small amount brownish sand
90 - 95 "	A mixture of steel grey and yellow clay giving a mottled appearance carrying very little sand
95 - 106 "	Same as 90 - 95 feet, except that a stone about a pound in weight, well water worn, was picked up.
106 - 112 "	Steel colored plastic clay free from sand
112 - 122 "	Almost pure red sand with mica and a red sand stone about a pound in weight, well water worn
122 - 135 "	Mottled (yellow and grey) clay carrying fine to coarse sand
135 - 140 "	Yellow clay carrying a large percentage of sand
140 - 158 "	Loose aggregates of water worn sands and gravel.
158 - 159 "	Steel grey plastic clay free from abrasives
159 - 175 "	Coarse sand carrying small percentage of yellow clay
175 - 180 "	Coarse sand carrying small percentage of clay
180 - 199 "	Fine grey sand with finely flaked mica bound together with a grey clay
199 - 248 "	Yellow clay, sand, and gravel
248 - 250 "	Sandy yellow clay rich in shells
250 - 250' 1"	Hard sandstone band
260' 1" - 259 feet	Yellow clay rich in shells
259 - 261 "	Grey marl carrying shells.
261 - 290 "	Grey marl with abundant shells
290 - 298 "	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 590 gals. per hour does not lower the water below the 290 feet level.
298 - 340 "	Greenish grey shelly marl with shells
340 - 355 "	Brownish grey shelly marl
355 - 400 "	Greenish grey shelly impure limestone.
400 - 410 "	Greenish grey shelly marl. Very Puggy. Marl contains a form of coral.
410 - 412 "	Greenish grey, puggy, shelly marl carrying same coral as above.
412 - 450 "	Greenish grey marl, puggy, and carrying an abundance of shell with same type of coral. At 412' gas was encountered.
450 - 470 "	Grey coral beds.
470 - 500 "	Creamy colored coral beds
500 - 528 "	White coral beds.
528 - 580 "	Polyzocal limes. Alternating in color with light to dark grey. Very friable.
580 - 637 "	Light to dark grey polyzocal marly lime.
637 - 640 "	Dark grey polyzocal lime.
640 - 647 "	Light grey polyzocal marl with fragmentary limestone.
647 - 648 "	Shell band with large oyster shells and other mollusca.
648 - 663 "	Polyzocal lime with cream colored coral. Grey marly polyzocal lime with shells

(over)

Handwritten note:
Vandell R. R. W.
Murray

663 - 690 feet	Dark grey polyscal shelly marl with rich creamy coral.
690 - 705 "	Light grey polyscal lime. <i>⊗ More data in Weekly Reports.</i>
705 - 725 "	Grey polyscal lime with green streaks of glauconite and first appearance of the glauconite sands
725 - 735 "	Dark grey polyscal lime with remains of large shells resembling oyster shells. Few grains of Glauconite.
735 - 753 "	Grey green polyscal lime and fragmentary limestone. <i>⊗</i>
753 - 777 "	Greenish grey marly lime carrying streaks of brown with finely flaked mica.
777 - 787 "	Greenish grey fragmentary limestone.
787 - 798 "	Greenish grey polyscal marly lime with enough brown to give it an olive green appearance. <i>⊗</i>
798 - 803 "	Greenish grey polyscal lime with streaks of brown carrying finely flaked mica.
803 - 816 "	Grey green polyscal marly lime. - <i>U.D.R. reads greenish grey not grey green</i>
816 - 823 "	Light greenish grey polyscal lime with granular limestone.
823 - 847 "	Grey green polyscal lime with granular limestone. <i>⊗</i>
847 - 858 "	Grey green polyscal lime marl. Large quantity of brown coral giving the core a brown appearance. Few grains of water worn gravel.
858 - 864 "	Grey green granular limestone with shells and a few grains of gravel. <i>U.D.R. has glauconite not gravel.</i>
864 - 866 "	Pure white granular limestone
866 - 884 "	Green marly polyscal lime.
884 - 888 "	Pure white granular limestone slightly cemented
888 - 892 "	Dark green laminated polyscal marl.
892 - 905 "	Same as above
905 - 905'3"	Hard shell band
905'3" - 907'	Light green polyscal lime with shells
907 - 923 feet	Green laminated polyscal limy marl.
923 - 924 "	White granular limestone
924 - 940 "	Dark green laminated polyscal limy marl
940 - 940'1"	Hard blue limestone band with large flakes of mica.
940'1" - 952'	Green polyscal limy marl. Glauconite grains. Films of Oil.
952 - 960 feet	Dark grey laminated polyscal marl with glauconite <i>U.D.R. has limy marl.</i>
960 - 975 "	Green limy marl with glauconite
975 - 977 "	White granular limestone.
977 - 995 "	Dark grey laminated marl. Small amount of sand with <i>W.D.R. finely flaked.</i> mica.
995 - 1004 "	Green polyscal limy marl, and sand.
1004 - 1012 "	Green polyscal limy marl.
1012 - 1014 "	Pure white granular limestone
1014 - 1023 "	Dark grey laminated marl with sand and mica.
1023 - 1034 "	Green limy marl with small shells
1034 - 1036 "	White granular limestone.
1036 - 1040 "	Dark grey laminated polyscal marl.
1040 - 1047 "	Bluish green polyscal limy marl with small shells and <i>W.D.R. has fine</i> little sand. <i>"Sand" not in U.D.R.</i>
1047 & 1054 "	Green polyscal limy marl with small shells (and sand) also fragmentary limestone.
1054 - 1056 "	White granular limestone.
1056 - 1061 "	Bluish green polyscal limy marl with fragmentary limestone.
1061 - 1065 "	Bluish green polyscal marl with fragmentary limestone <i>W.D.R. has fine sand as well.</i>

1065 - 1072	feet	Bluish green polyzoal marl with fragmentary limestone	<i>W.D.R.</i>
1072 - 1079	"	Dark green polyzoal limy marl with (small amount of) sand	
1077 - 1089	"	Bluish green polyzoal limy marl	
1089 - 1090	"	White granular limestone	
1090 - 1098	"	Grey laminated limy marl	
1098 - 1103	"	Fragmentary limestone with bluish green polyzoal marl	
1103 - 1111	"	Dark green polyzoal limy marl	
1111 - 1120	"	Dark grey laminated marl with small shells	
1120 - 1122	"	White granular limestone	
1122 - 1131	"	Greenish grey polyzoal limy marl	
1131 - 1137	"	Greenish grey polyzoal marl with few bi-valves	
1137 - 1148	"	Grey laminated marl with sand and small shells. Small amount finely flaked mica	
1148 - 1156	"	Dark green polyzoal limy marl with fragmentary limestone	
1156 - 1158	"	Greenish polyzoal limy marl with few bi - valves.	
1158 - 1159	"	White granular limestone	
1159 - 1164	"	Dark grey laminated polyzoal marl	
1164 - 1165	"	Greenish grey polyzoal marl containing large number bi-valves, some heavy coral, sand and few crystals of pyrites.	
1165 - 1170	"	Greenish grey marl	
1170 - 1177	"	Brownish grey polyzoal marl. Finely flaked mica and fine sand	<i>W.D.R.</i>
1177 - 1181	"	Same as above except that a small amount of black sand appears in the sediments.	
1181 - 1188	"	Dark grey laminated polyzoal (limy) marl. Some mica and black and reddish sand.	<i>W.D.R.</i>
1188 - 1196	"	Brownish green limy marl with few grains of glauconite and fine sand.	
1196 - 1203	"	Brownish grey sandy marl with small shells	
1203 - 1206	"	Brownish grey sandy marl with shells	
1206 - 1216	"	Hard greenish marl	<i>W.D.R.</i>
1216 - 1226	"	Brown micaceous sandy marl	
1226 - 1235	"	Greenish grey foraminiferal sandy marl	
1235 - 1240	"	Hard grey marl containing coral and large shells	
1240 - 1245	"	Dark grey micaceous sandy marl with small shells and coral. Large crystals of pyrites.	
1245 - 1251	"	Brownish grey shelly micaceous marl with fine sand and large crystals of pyrites. <i>W.D.R. in nodules not crystals.</i>	
1251 - 1260	"	Brownish grey micaceous foraminiferal shelly marl with pyrites	
1260 - 1261	"	Brownish grey micaceous shelly marl with pyrites	
1261 - 1268	"	Dark brown micaceous marl. Sands consist mainly limestone and silica. Dark color due to iron.	
1261'6"		A band of sandstone $\frac{3}{8}$ " in thickness was cored.	
1268 - 1271	"	Dark brown micaceous sandy marl in <i>W.D.R.</i> with pyrites	
1271 - 1276	"	Brownish grey (micaceous) foraminiferal sandy marl with pyrites.	<i>W.D.R.</i>
1276 - 1281	"	Brown micaceous sandy marl with shells	
1281 - 1290	"	Brownish grey sandy marl with shells and pyrites	
1290 - 1294	"	Dark brown micaceous marl	
1290'		An additional amount of gas was opened up	
1294 - 1297	"	Grey marly micaceous sandstone with pyrites and large shells	
1297 - 1302	"	Dark brown sandy micaceous marl with pyrites	
1302 - 1312	"	Dark brown and greenish grey sandy micaceous marl. Large shells metamorphically replaced by glauconite. Some quartz crystals.	
1312 - 1313	"	Dark brown micaceous marl containing large amount of iron stained sands and some fish scales. A few large shells.	

1315 - 1316	feet	Greenish grey sandy marl
1316 - 1316	"	Hard fined grained greenish grey shelly limestone
1316 - 1326	"	Greenish grey sandy marl with shells and fish scales
1326 - 1334	"	Dark brown sandy micaceous marl with shells and pyrities
1334 - 1340	"	Dark brown and fawny grey shelly micaceous sandy marl with thin band of limestone
1340 - 1346	"	Light brown shelly micaceous sandy marl with pyrities
1346 - 1350	"	Brown micaceous sandy marl
1350 - 1365	"	Brown micaceous sandy marl with pyrities and shells
1365 - 1375	"	Brownish green shelly micaceous marl with pyrities
1375 - 1385	"	Dark greenish grey shelly micaceous marl
1385 - 1390	"	Hard greyish brown marl
1390 - 1391	"	Fawny colored sandstone with shells
1391 - 1400	"	Dark brownish (grey) shelly foraminiferal micaceous marl
1400 - 1405	"	Dark brown micaceous foraminiferal marl with sand
1405 - 1415	"	Greenish grey sandy marl
1415 - 1420	"	Brownish grey sandy micaceous marl
1420 - 1425	"	Brownish grey sandy micaceous marl
1425 - 1440	"	Brown micaceous marl with shells
1440 - 1447	"	Brownish grey marl with shells
1447 - 1449	"	Glaucinite sand with shells and grains of quartz Cemented off at 1449 feet.

to 9th September, 1939.

1456'		Soft formation of glauconite
1459'		Very hard band encountered. From 1456 to 1459' gas very strong
1460'		Encountered unbroken band of only a couple inches in thickness
1462 - 1464	feet	Lost core out of barrel
1464 - 1465	"	Greenish brown mottled micaceous sandy micaceous-sandy marl with glauconite and quartz grains
1465 - 1469	"	Lost core from core barrel. Bailer sample indicated same as 1464 to 1465.
1469 - 1471	"	Could not hold core in core barrel so run earth socket. This showed fine to coarse sand with glauconite, pyrities, chlorite, mica, and quartz grains.
1471'		A thin band of greenish brown sand stone (very hard)
1471 - 1475	"	Fine silty sand with carbonaceous material
1475 - 1476	"	Quartz sand and gravel, with greenish marl
1476 - 1477	"	Brown micaceous sandy marl
1477 - 1480	"	Lost core from barrel
1480 - 1482	"	Lost core, but bailer showed sandy formation with quartz grains, mica, chlorite, glauconite and carbonaceous material. When we resumed operations, oil had made its appearance in the Bore.
1483'		Hard band of brownish green sandstone. The core showed that carbonaceous material was embedded in the sandstone.
1483 - 1484	feet	Fine to coarse quartz sand with pyrities. Pieces of bitumen and free oil showing
1484'		Band of grey shale. All fragments of this shale showed a curvature of large radius.
1485 - 1485	"	Fine quartz sand.
1485 - 1500	"	Brown micaceous sandy marl
1500'		Sandstone band
1500 - 1504	"	Dark brown sandy carbonaceous clay
1504 - 1505	"	Dark brown carbonaceous sandstone

WDR has also micaceous material having the appearance of carbonaceous

1505 - 1506 feet	Dark brown laminated shale
1506 - 1510 "	Fine floury grey sand heaving badly
1510 - 1515 "	Fine to coarse grey sand with pyrities, quartz grains, carbonaceous material, and fossils.
1515 - 1518 "	Brown carbonaceous sandstone with fossils
1518 - 1535 "	Brown sandy micaceous formation with carbonaceous material and fossils, interbedded with thin bands of sandstone.
1535 - 1542 "	Brown sandy micaceous formation with carbonaceous material and marine fossils
1542 - 1545 "	Brownish grey sandstone
1545 - 1544 "	Brownish grey fine sand
1544 - 1549 "	Brown marly sand with carbonaceous material and shells
1549 - 1550 "	Soft brown sandstone thickly embedded with shells
1550 - 1553 "	Brown micaceous carbonaceous sandy marl rich in limes and small shells and other marine fossils
1553 - 1555 "	Dark brown sandy carbonaceous formation with small shells resembling or might be foraminifera and rich in other marine fossils.
1555 - 1558 "	Dark brown micaceous sandy marl with fossils.
1558 - 1564 "	Brown micaceous sandy marl with shells.
1564 - 1565 "	Pure greyish green shale <i>in W.D.R. Laminated soft.</i>
1565 - 1569 "	Fine to coarse sandy marl with small shells and shark teeth. Gas at this point stronger than any other point in the bore. A strong petroleum odor coming from the bore with good showing of oil.
1569 - 1575 "	<i>(Not in W.D.R.)</i> (Pure) greenish grey laminated shale. <i>(Not in W.D.R.)</i> (Not hard but) tough.
1575 - 1576 "	Sandy grey shale
1576 - 1580 "	Soft greyish green shale
1580 - 1587 "	Sandy grey green marl
1587 - 1595 "	Light green shale.
1595 - 1599 "	Sandy green shale
1599 - 1603 "	Greenish blue sticky shale. <i>in W.D.R. 1603'-1611' Alternating green to grey shale bands.</i>
1611'6"	Green and white shaley material. <i>Shale bands.</i>
1611 - 1612 "	Hard light grey shale
1612 - 1614 "	Hard dark grey shale
1614 - 1616 "	Hard Soft grey shale with a thin layer of pure white kaolin and coarse quartz grains
1616 - 1618 "	Greenish grey sandy shale
1618 - 1619 "	Fine grained sandstone with a little secondary silica
1619 - 1620'6"	Greenish grey sandy shale
1620'6" - 1623'	Fairly 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 quartz grains <i>with small inclusions of mica.</i>
1648 - 1657 "	Hard sandy shale. large percent of fine to medium coarse sand
1657 - 1669 "	Fine to coarse sand bound together with a shaley material
1668 - 1670 "	Dark grey sandy shale
1670 - 1673 "	Compact micaceous sandstone
1673 - 1677'6"	Lighter grey shale with sand and mica developed along the faces
1677'6" - 1679'	Hard fine grained micaceous sandstone
1679 - 1682 feet	Light to dark grey shale
1682 - 1685 "	Very hard brown sandstone and hard shale bands alternating
1685 - 1687 "	Hard light brown sandy shale
1687 - 1690 "	Hard fine grained sandstone with mica
1690 - 1691'6"	Compact shale with sand

Diff. to W.D.R.

Diff. to W.D.R.

- 1691'6" - 1693' ^a 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 grey shale with thin seams of Kaolin
- 1700 - 1702 " Fairly hard sandstone with shaley material
- 1702 - 1704 " Fairly hard shaley sandstone with a quartz stringer.
Also a thin layer of olive green shale.
- 1704 - 1705 " Calcareous shaley sandstone with a fair showing of petroleum gas
- 1705 - 1706 " Calcareous sandy shale with pyrites.
- 1706'6" - 1706'6" Calcareous shaley sandstone with quartz stringers and pyrites
- 1706'6" - 1707'6" Dark green micaceous shale
- 1707'6" - 1709 feet Dark grey sandy shale
- 1709 - 1710 feet Dark grey shaley sandstone
- 1710 - 1711 " Thin layers of green micaceous shale and grey sandstone with pyrites
- 1711 - 1713 " Light grey shaley sandstone
- 1713 - 1715 " Darker grey shaley sandstone
- 1715 - 1716 " Light grey shaley sandstone in. U.D.R. with quartz stringers.
- 1716 - 1717 " Hard grey sandstone
- 1717 - 1720 " Bluish grey shale with very little sand
- 1720 - 1726 " Dark grey shale
- 1726 - 1727 " Dark grey sandy shale
- 1727 - 1728 " Dark grey sandy shale
- 1728 - 1736 " Dark grey shale *in U.D.R. Light to dark.*
- 1736 - 1740 " Dark grey shale
- 1740 - 1742 " Dark grey shale with quartz stringers
- 1742 - 1745 " Dark grey fine grained sandstone with quartz stringers
- 1745 - 1746 " Light grey friable sandstone with lime, (possibly in the form of Dolomite because of its reluctance to effervesce in cold Hydrochloric acid. A small amount of) pyrites was also present *between brackets with U.D.R.*
- 1746 - 1749 " Friable light grey sandstone
- 1749 - 1751 " Friable light grey sandstone with thin streak of quartzite
- 1751 - 1755 " Light grey sandstone with pyrites but no lime
- 1755 - 1763 " Light grey sandstone with pyrites also Dolomite lime present. The sandstone is constructed of medium sized sand grains and cemented with lime. The formation is friable.
- 1763 - 1766 " Friable sandstone cemented with lime

to 22nd June, 1940

*Rec'd
11/2/41*

El. : ~~205~~ ft. 235'To 250 feet:

Sand and clay (after Croll, 1940):

250-528 feet:

Grey marl containing shell material, including Turrillids. Polyzoa are more common towards the base. The microfauna from a polyzoal marl at 463 ft. contains Orbulin universa (not common), Globigerina ouachitaensis-bulloides sp. and Globigerinoides conglobata, and Nonion 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.

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 Globigerina ouachitaensis-bulloides sp., Rosalina mitchelli, Baggina phillipinensis, and common Elphidium spp., particularly E. crassatum. 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 Lepidocyclina howchini, also Globigerinoides triloba, indicating a Batesfordian age. The fauna is somewhat abraded, indicating conditions of wave-tossing.

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

866-884 ft.:- soft white limestone containing shell fragments and occasional Terebratellids. Pelagic foraminifera include species of the Globigerina ouachitaensis-bulloides sp., G. apertura, Globigerinoides triloba; ~~But~~ diagnostic benthonic species are Operculina victoriensis and Cibicides perforatus. It has been previously noted (D.J. Taylor, pers. comm.) that the latter appears to have much the same time range as Astrononion centroplax, 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 identical with that from 884 ft.

923-~~1120~~¹¹²⁰ 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 Globigerina apertura (common) and Astrononion centroplax, 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.

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

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 Globigerina ampliapertura, G. angustiumbilitata and Gyroldina zealandica suggest a Janjukian age.

At 1373 ft. the insoluble residue of the mudstone (though small) was observed to contain some 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 and occasional echinoid spines occur together with foraminifera consisting predominantly of Almaena gippslandica, also Globigerina ampliapertura and Cibicides perforatus. This microfauna typifies the Micaceous Marl Member of the Lakes Entrance Formation.

U11 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 some calcareous cementing material".

1462-1476 ft.:- unfossiliferous glauconitic, micaceous clayey sand. The sediment is somewhat gravelly, and at 1475-6 ft. it is predominantly 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.

8ft. 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".

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

(A)

These sediments represent Boutakoff's 'Colquhoun Gravels'.

1484- feet:

Hard light grey shale, and micaceous sandstones. Obviously a metamorphic basement rock.

→ see following page

- puts top of basement

at

B. HOCKING

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

- 690' - 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' Alternating bands of shale and brown sandstone.

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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 instantaneously. On sniffing the gas, as it came from the bore, a scratching sensation of the throat resulted. No odour was noticeable. 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 strata. Also strata is too tight to carry any quantity of oil.

15th July, 1939. 1235' - 1260'

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

22nd July, 1939.

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 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.

12th August, 1939.

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

26th August, 1939. 1390' - 1405'

Gas and oil showing is very encouraging.

7th October, 1939.

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

14th October, 1939.

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

21st October, 1939.

1480'-1482' Hole was bailed and next morning oil had made its appearance in the bore. This reported as at 1482' 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.

4th November, 1939. 1482' - 1500' 1483'-1484' Pieces of bitumen and free oil showing. All the formation (1482'-1500 Ed.) carried 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 throughout, 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. 1565'-1569' Strongest flow of gas so far encountered in this bore and carried a strong petroleum odour and distinct showing of oil.

17th February, 1940. 1587' - 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 1705' level.

11th May, 1940. 1705'6" - 1715' Gas encountered last week still persisting, but in slightly lesser quantities.

18th May, 1940. Gas pressure increased at 1724 foot level and could be set alight in the drain.

25th May, 1940. At 1727' 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 1724 to 1747 foot level as the present formation is too highly cemented to hold any appreciable volume.

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

Appendix 5.0

Correspondence

5.0 Correspondence

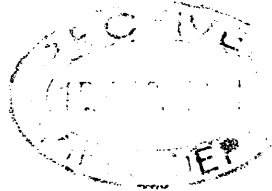
Gippsland Oil Co. Limited

118 Queen St., Melbourne

Telegraphic Address : NORSEGOLD
Codes : BENTLEY'S

Registered Office :

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



13th March, 1941.

1. ~~Secretary~~ ✓

2. ~~Mr. Marshall~~

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

3. ~~Mr. Croll~~

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.

Yours faithfully,

J. Whyte

Secretary.

*Mr Whyte will call
on Monday 17/3/41*

*re Croy's position
under Sec. 49 of
Pet act.*

JJ 15/3.

Mr Whyte called 17/3.

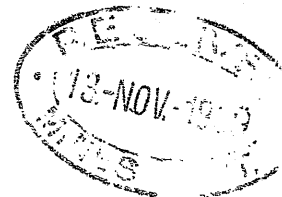
encl
~~118 Queen St., Melbourne~~
Gippsland Oil Co. Limited

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 faithfully,

A handwritten signature in cursive script, appearing to read 'I.R. Lightner'.

I.R. Lightner.

IRL:KNK

IC:TS

10th November, 1939.

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 1,492' 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,

S e c r e t a r y .

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

Gippsland Oil Co. Limited

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.

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

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,

J. R. Highmore

V JB

Gippsland Oil Co. Limited

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.

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,

J. R. Lightner.

✓
AM

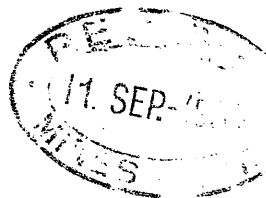
M. J. ...
Gippsland Oil Co. Limited

118 Queen St., Melbourne

Telegraphic Address : NORSEGOLD
Codes : BENTLEY'S

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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,

J. G. ...
Managing Director.

M. C. ...

Gippsland Oil Co. Limited

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

8th September, 1939.

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

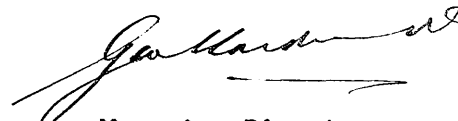


Dear Sir,

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 glauconite sands opened up to test their value.
Depth to sands 1446 feet."

Yours faithfully,


Managing Director.

McCroll

1/2/39