

DEPT. NAT. RES & ENV

PE904072

LEONGATHA OIL WELLS-1.

WELL ELEMENTARY

LEONGATHA OIL WELLS-1

(W366)

PE904073

This is an enclosure indicator page.
The enclosure PE904073 is enclosed within the
container PE904072 at this location in this
document.

The enclosure PE904073 has the following characteristics:

ITEM_BARCODE = PE904073
CONTAINER_BARCODE = PE904072
NAME = well card
BASIN = GIPPSLAND
PERMIT =
TYPE = WELL
SUBTYPE = WELL_CARD
DESCRIPTION = well card Leongatha Oil Wells 1
REMARKS = Abandoned 18/07/1924
DATE_CREATED = 16/02/1924
DATE_RECEIVED =
W_NO = W366
WELL_NAME = Leongatha Oil Wells-1
CONTRACTOR = Leongatha Oil Wells
CLIENT_OP_CO = Leongatha Oil Wells

(Inserted by DNRE - Vic Govt Mines Dept)

LEONGATHA OIL WELLS.

In consequence of a report that a seepage of oil had been found in this district and that a Company had been formed to further develop the area, an inspection was made in company with Mr. Stanley Hunter, Engineer for Boring. The area inspected, Allotment 72A, Parish of Koorumburra and owned by Mr. A. Cameron is located about 2½ miles west of Leongatha Railway Station. About 300 yards south from the main road in a small patch of ferns several shallow holes were noticed. On touching the mud in these holes bubbles of inflammable gas rose to the surface and an oily flame of a leaden hue was to be seen. Globules of a dark oil were liberated from the mud. A similar oily material was noticed on the edges of the holes mixed with grass and other vegetation. A sample of this oily material was procured for examination.

OIL and GAS DIVISION

20 JUL 1984

the mud film

Westwards from this locality and some 50 feet lower in a gully, a dam, formerly in use by a sawmill, was inspected. On stirring the mud in this dam a bright iridescence covered the surface and this film, on floating to the by-wash of the dam, lost its lustre, flocculated and accumulated on the vegetation in the form of a sticky residue.

A mud hole to the south east was also examined and in this, traces of a dark oily material were collected.

Geologically, there is nothing to indicate that there is an oil seepage. The country is mostly decomposed basalt overlain by sand and quartzite and the first locality is at the base part of this tertiary sand and adjacent to a road that leads to the sawmill.

Laboratory tests show that the oil is of the mineral oil type but that the limited quantity available enables only preliminary tests to be made and these indicate that it is probably the fraction known as lubricating or fuel oil.

There is nothing to warrant the belief that an oil field has been located and until further investigations are completed it is advisable that no money be spent in the search." (Signed) W. Baragwanath, 25/6/23.

A company was formed and boring started early in 1924. The log of the bore is as follows:-

Drilling commenced 16th February 1924.

<u>Period</u>	<u>Depth</u>	<u>Strata</u>
16th-22nd Feb.	68 ft.	Surface -10 ft - Dark clay. 10 -30 ft. - Dark clay and lft. rock quartzite. 30-33ft. Quartzite. 33-37 ft. Quartzite and heavy gravel. 37-41 ft. Very coarse drift sand 41-43 ft. Very heavy drift. 43-50 ft. Drift. 50-56 ft. Stiff clay. 56-68 ft. Stiff blue clay.
23rd-27th Feb.	133 ft.	68-76 ft. Stiff grey clay. 76-93 ft. Dark mudstone 93-133 ft. Sandy clay.
28th Feb.-5th Mch.	222 ft.	133 - 222 ft. Sticky grey sandy clay with hard bands of sandstone.
6th-12th March	244 ft.	222-244 ft. Light coloured sandstone

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13th - 19th March	297 ft.	244-246' - Sandstone
		246 -250' - Sandstone and bands of grey clay.
		250-255' - Sandstone with lime stone bands.
		255-269' - Bands of sandstone and clay.
		269-277' - Sandstone
		277-280' - Sandstone with small seam black coal.
		280-284' - Hard sandstone.
		284-291' - Sandstone with bands of grey clay.
		291-297' - Sandstone
		Sandstone very hard and drilling slow.
20th-26th March	413 ft.	297-324' - Sandstone with bands of grey sandy clay.
		324-413' - Sandy mudstone with bands of sandstone.
27th Mch. to 3rd April.	549'	413-427' - Dark mudstone
		427-477' - Grey sandy clay.
		477-493' - Dark sticky clay.
		493-549' - Dark carbonaceous mudstone.
4th-9th April	653'	549-568' - Mudstone and carbonaceous shale. Small vein of coal at 568'.
10th-16th April	793'	653-699' - Mudstone with dark shale.
		699-749' - Sandy clay and dark carbonaceous shale.
		749-770' - Sticky shale.
17th-23rd April	925'	770-793' - Sticky sandy clay.
		793-810' - Sandy clay
		810-860' - Mudstone.
		860-869 - Dark sticky clay.
24th-30th April	974'	869-925' - Mudstone.
		925-955' - Sandy clay.
		955-974' - Sticky clay.
1st to 14th May	1000 ft.	974-1000' - Dark sticky clay. Delay through casing trouble now overcome.
Week ending 28th May	1183 ft.	- Sticky dark clay shale and sandy mudstone.
13th June	1406 ft.	- Sticky shale.
21st June	1527 ft.	- Black carbonaceous sticky and sandy shale.
27th June	1590 ft.	- Sticky sandy shale with small bands of sandstone.
5th July	1670 ft.	- Stiff dark shale sandy shale and mudstone.
18th July		- Boring suspended owing to shortage of funds. Efforts being made to secure further capital.

" 10" casing landed to 84 ft. 8" casing landed to 280 ft. 6" casing landed to 982 ft. 4 1/2 ins. A close study of this log will show a jurassic series down to 300 ft. odd, after which thick beds of mudstone and shale approximating 700 ft. are in evidence forming excellent cover and satisfactory degree of carbonaceous matter.

In accordance with the Commonwealth Govt.'s notice No. 1 of 2nd July 1920 drilling was commenced on Allotment 72A, Parish of Koorumburra County of Bulla^{Bulla} Bulla^{Bulla}. The drilling was carried out by the Gold Fields Diamond Drilling Pty. Ltd. under a contract. The log of the bore with details of structure will be forwarded regularly. * (Signed) C.C. JACKSON. 6/1924.

LEONGATHA OIL WELLS:

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agitating the mud
Film

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16th-22nd Feb.	68 ft.	Surface -10 ft - Dark clay.
		10 -30 ft. - Dark clay and 1ft. rock quartzite.
		30-33ft. Quartzite.
		33-37 ft. Quartzite and heavy gravel.
		37-41 ft. Very coarse drift sand
		41-43 ft. Very heavy drift.
		43-50 ft. Drift.
23rd-27th Feb.	133 ft.	50-56 ft. Stiff clay.
		56-68 ft. Stiff blue clay.
		68-76 ft. Stiff grey clay.
28th Feb.-5th Mch.	222 ft.	76-83 ft. Dark mudstone
		83-133 ft. Sandy clay.
6th-12th March	244 ft.	133 - 222 ft. Sticky grey sandy clay with hard bands of sandstone.
		222-244 ft. Light coloured sand- stone. 3 day delay - broken shaft

203.

Mr. W. Baragwanath. 1947. p. 203/4

13th - 19th March	297 ft.	244-246' - Sandstone 246 -250' - Sandstone and bands of grey clay. 250-255' - Sandstone with limestone bands. 255-269' - Bands of sandstone and clay. 269-277' - Sandstone 277-280' - Sandstone with small seam black coal. 280-284' - Hard sandstone. 284-291' - Sandstone with bands of grey clay. 291-297' - Sandstone Sandstone very hard and drilling slow.
20th-26th March	413 ft.	297-324' - Sandstone with bands of grey sandy clay. 324-413' - Sandy mudstone with bands of sandstone.
27th Mch. to 3rd April.	549'	413-427' - Dark mudstone 427-477' - Grey sandy clay. 477-493' - Dark sticky clay. 493-549' - Dark carbonaceous mudstone.
4th-9th April	653'	549-568' - Mudstone and carbonaceous shale. Small vein of coal at 568'. 653-699' - Mudstone with dark shale. 699-749' - Sandy clay and dark carbonaceous shale.
10th-16th April	793'	749-770' - Sticky shale. 770-793' - Sticky sandy clay. 793-810' - Sandy clay 810-860' - Mudstone. 860-869 - Dark sticky clay. 869-925' - Mudstone.
17th-23rd April	925'	925-955' - Sandy clay. 955-974' - Sticky clay.
24th-30th April	974'	974-1000' - Dark sticky clay. Delay through casing trouble now overcome.
1st to 14th May	1000 ft.	- Sticky dark clay shale and sandy mudstone.
Week ending 28th May	1183 ft.	- Sticky shale.
13th June	1406 ft.	- Black carbonaceous sticky and sandy shale.
21st June	1527 ft.	- Sticky sandy shale with small bands of sandstone.
27th June	1590 ft.	- Stiff dark shale sandy shale and mudstone.
5th July	1670 ft.	- Boring suspended owing to shortage of funds. Efforts being made to secure further capital.
18th July		

" 10" casing landed to 84 ft. 8" casing landed to 280 ft. 6" casing landed to 982 ft. 4½ ins. A close study of this log will show a jurassic series down to 300 ft. odd, after which thick beds of mudstone and shale approximating 700 ft. are in evidence forming excellent cover and satisfactory degree of carbonaceous matter.

In accordance with the Commonwealth Govt.'s notice No. 1 of 2nd July 1920 drilling was commenced on Allotment 72A, Parish of Koorumburra County of Ball^{Ball} ~~Ball~~ ^{Ball}. The drilling was carried out by the Gold Fields Diamond Drilling Pty. Ltd. under a contract. The log of the bore with details of structure will be forwarded regularly.* (Signed)

C. C. Jackson, June 1924

17 MAR 1986

LEONGATHA OIL WELLS NO. 1

W 366

Spudded 16th February, 1924

0'	-	10'	Dark clay
10'	-	30'	Dark clay and 1 ft. rock quartzite
30'	-	33'	Quartzite
33'	-	37'	Quartzite and heavy gravel
37'	-	41'	Very coarse drift sand
41'	-	43'	Very heavy drift
43'	-	50'	Drift
50'	-	56'	Stiff clay
56'	-	68'	Stiff blue clay
68'	-	76'	Stiff grey clay
76'	-	93'	Dark mudstone
93'	-	133'	Sandy clay
133'	-	222'	Sticky grey sandy clay with hard bands of sandstone
222'	-	244'	Light coloured sandstone
244'	-	246'	Sandstone
246'	-	250'	Sandstone and bands of grey clay
250'	-	255'	Sandstone with limestone bands
255'	-	269'	Bands of sandstone and clay
269'	-	277'	Sandstone
277'	-	280'	Sandstone with small seam black coal
280'	-	284'	Hard sandstone
284'	-	291'	Sandstone with bands of grey clay
291'	-	297'	Sandstone, very hard
297'	-	324'	Sandstone with bands of grey sandy clay
324'	-	413'	Sandy mudstone with bands of sandstone
413'	-	427'	Dark mudstone
427'	-	477'	Grey sandy clay
477'	-	493'	Dark sticky clay
493'	-	549'	Dark carbonaceous mudstone
549'	-	568'	Mudstone and carbonaceous shale Small vein of coal at 568'
568'	-	653'	No record
653'	-	699'	Mudstone with dark shale
699'	-	749'	Sandy clay and dark carbonaceous shale

749' - 770' Stick shale
770' - 793' Sticky sandy clay
793' - 810' Sandy clay
810' - 860' Mudstone
860' - 869' Dark sticky clay
869' - 925' Mudstone
925' - 955' Sandy clay
955' - 974' Sticky clay
974' - 1,000' Dark sticky clay.

at 1183 in sticky dark clay shale and sandy mudstone
at 1406 in sticky shale.
at 1527 in black carbonaceous sticky and sandy shale
at 1590 in sticky sandy shale with small bands of sandstone
at 1670 in stiff dark shale sandy shale and mudstone.

by 18th. July boring suspended.

LEONGATHA OIL WELLS NO. 1

Spudded 16th February, 1924

0'	-	10'	→ <u>Dark clay</u>
10'	-	30'	Dark clay and 1 ft. rock quartzite
30'	-	33'	Quartzite
33'	-	37'	Quartzite and heavy gravel
<u>37'</u>	-	41'	→ <u>Very coarse drift sand</u> V. co. dr. sd.
41'	-	43'	Very heavy drift
43'	-	50'	Drift
<u>50'</u>	-	56'	→ <u>Stiff clay</u>
56'	-	68'	Stiff blue clay
68'	-	76'	Stiff grey clay
76'	-	93'	Dark mudstone
93'	-	133'	Sandy clay
<u>133'</u>	-	222'	→ Sticky grey sandy clay with hard bands of sandstone
222'	-	244'	Light coloured sandstone
244'	-	246'	<u>Sandstone</u>
246'	-	250'	Sandstone and bands of grey clay
250'	-	255'	Sandstone with limestone bands
255'	-	269'	Bands of sandstone and clay
269'	-	277'	Sandstone
277'	-	280'	Sandstone with small seam black coal
280'	-	284'	Hard sandstone
284'	-	291'	Sandstone with bands of grey clay
291'	-	297'	Sandstone, very hard
297'	-	324'	Sandstone with bands of grey sandy clay
324'	-	413'	Sandy mudstone with bands of sandstone
413'	-	427'	Dark mudstone
427'	-	477'	Grey sandy clay
477'	-	493'	Dark sticky clay
<u>493'</u>	-	549'	→ <u>Dark carbonaceous mudstone</u>
549'	-	568'	Mudstone and carbonaceous shale Small vein of coal at 568'
568'	-	653'	No record
653'	-	699'	Mudstone with dark shale
699'	-	749'	Sandy clay and dark carbonaceous shale
749'	-	770'	Stick shale
770'	-	793'	Sticky sandy clay
793'	-	810'	Sandy clay
810'	-	860'	Mudstone
860'	-	869'	Dark sticky clay
869'	-	925'	Mudstone
925'	-	955'	Sandy clay

955' - 974' Sticky clay

974' - 1,000' Dark sticky clay

→ at 1,183' in sticky dark clay shale and sandy mudstone

at 1,406' in sticky shale

at 1,527' in black carbonaceous sticky and sandy shale

at 1,590' in sticky sandy shale with small bands of sandstone

at 1,670' in stiff dark shale sandy shale and mudstone.

by 18th July Boring suspended.