

OILFIELD RESEARCH LABORATORIES

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- REGISTERED ENGINEERS -

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January 10, 1961

Thomas Oil Company
1329 North Ninth
Independence, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Dobson "A" Lease, Well No.2, Montgomery County, Kansas, and submitted to our laboratory on January 8, 1961.

This core was sampled and the samples were sealed in jars by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:db

5 c.

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GENERAL INFORMATION & SUMMARY

Company Thomas Oil Company Lease Dobson "A" Well No. 2

Location _____

Section 20 Twp. 34S Rge. 15E County Montgomery State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 1164.0

Bottom of Core - - - - - 1185.0

Top of Sand - - - - - ?

Bottom of Sand - - - - - ?

Total Feet of Permeable Sand - - - (Analyzed) - - - 20.5

Total Feet of Floodable Sand - - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 30	3.0	3.0
30 - 100	10.0	13.0
100 - 150	1.0	14.0
150 - 200	4.5	18.5
200 & above	2.0	20.5

Average Permeability Millidarcys - - - - - 97.9

Average Percent Porosity - - - - - 18.4

Average Percent Oil Saturation - - - - - 23.1

Average Percent Water Saturation - - - - - 57.7

Average Oil Content, Bbls./A. Ft. - - - - - 347.

Total Oil Content, Bbls./Acre - - - - - 7,294.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

Total Calculated Oil Recovery, Bbls./Acre - - - - -

Packer Setting, Feet - - - - -

Viscosity, Centipoises @ - - - - -

A. P. I. Gravity, degrees @ 60 °F - - - - -

Elevation, Feet - - - - -

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LOG

Company Thomas Oil Company Lease Dobson "A" Well No. 2

Depth Interval, <u>Feet</u>	<u>Description</u>
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1164.0 - 1185.0	- Grayish light brown sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Thomas Oil Company Lease Dobson "A" Well No. 2

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	1164.1	20.6	40	52	646	158.	0.5	0.5	323	79.
2	1165.0	20.1	23	52	359	199.	1.0	1.5	359	199.
3	1166.0	19.1	27	52	400	158.	1.0	2.5	400	158.
4	1167.0	20.0	22	51	342	245.	1.0	3.5	342	245.
5	1168.0	20.4	27	49	427	153.	1.0	4.5	427	153.
6	1169.0	20.6	23	55	371	74.	1.0	5.5	371	74.
7	1170.0	19.7	21	56	321	217.	1.0	6.5	321	217.
8	1171.0	19.5	19	61	288	42.	1.0	7.5	288	42.
9	1172.0	18.6	22	62	318	108.	1.0	8.5	318	108.
10	1173.0	19.3	26	55	390	31.	1.0	9.5	390	31.
11	1174.0	19.2	28	52	418	154.	1.0	10.5	418	154.
12	1175.0	18.7	22	58	320	87.	1.0	11.5	320	87.
13	1176.0	19.8	32	52	492	88.	1.0	12.5	492	88.
14	1177.0	18.0	27	57	377	10.	1.0	13.5	377	10.
15	1178.0	19.1	18	57	267	31.	1.0	14.5	267	31.
16	1179.0	19.7	20	55	306	98.	1.0	15.5	306	98.
17	1180.0	19.6	24	57	365	46.	1.0	16.5	365	46.
18	1181.0	19.4	19	63	286	71.	1.0	17.5	286	71.
19	1182.0	16.3	18	73	228	14.	1.0	18.5	228	14.
20	1183.0	21.2	26	65	428	91.	1.0	19.5	428	91.
21	1184.0	19.6	14	67	213	11.	1.0	20.5	213	11.
22	1184.9	17.7	16	74	220	-	0.5	21.0	110	-

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III - B

Company	Thomas Oil Company	Lease	Dobson "A"	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1164.0 - 1176.5	12.5	130.8	1635		
1176.5 - 1185.0	8.0	46.5	372		
1164.0 - 1185.0	20.5	97.9	2007		

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1164.0 - 1176.5	12.5	18.0	25.0	54.6	382	4,769
1176.5 - 1185.0	8.5	19.0	20.5	62.4	297	2,525
1164.0 - 1185.0	21.0	18.4	23.1	57.7	347	7,294