

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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July 13, 1961

Thomas Oil Company
1329 North 9th
Independence, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Coleman "B" Lease, Well No. 2, Labette County, Kansas, and submitted to our laboratory on July 10, 1961.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Fred O. Stenger

FOS:rf

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GENERAL INFORMATION & SUMMARY

Company Thomas Oil Co. Lease Coleman "B" Well No. 2

Location NW $\frac{1}{4}$

Section 2 Twp. 33S Rge. 17E County Labette State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 743.0

Bottom of Core - - - - - 782.0

Top of Sand - - - - - ?

Bottom of Sand - - - - - ?

Total Feet of Permeable Sand - - - - - 33.5

Total Feet of Floodable Sand - - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5	15.0	15.0
5 - 10	9.3	24.3
10 - 30	8.7	33.0
30 & above	0.5	33.5

Average Permeability Millidarcys - - - - - 8.8

Average Percent Porosity - - - - - 18.2

Average Percent Oil Saturation - - - - - 21.6

Average Percent Water Saturation - - - - - 57.3

Average Oil Content, Bbls./A. Ft. - - - - - 302.

Total Oil Content, Bbls./Acre - - - - - 11,516.

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 - - - - -

LOGCompany Thomas Oil Co. Lease Coleman "B" Well No. 2

Depth Interval, Feet	Description
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743.0 - 747.2	- Light brown slightly laminated slightly shaley sandstone.
747.2 - 748.0	- Gray laminated shaley sandstone.
748.0 - 758.0	- Light brown slightly laminated slightly shaley sandstone.
758.0 - 759.0	- Grayish light brown slightly calcareous sandstone.
759.0 - 760.0	- Gray laminated shaley sandstone.
760.0 - 765.0	- Light brown slightly laminated slightly shaley sandstone.
765.0 - 766.0	- Light brown and gray laminated slightly shaley sandstone.
766.0 - 771.0	- Gray laminated shaley sandstone.
771.0 - 782.0	- Gray and light brown laminated shaley sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Thomas Oil Co. Lease Coleman "B" 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	743.1	18.9	19	46	279	40.	0.5	0.5	139	20.00
2	744.1	18.9	22	46	323	24.	1.0	1.5	323	24.00
3	745.1	19.5	19	49	288	8.3	1.0	2.5	288	8.30
4	746.1	18.1	14	56	197	11.	1.0	3.5	197	11.00
5	747.1	19.9	26	50	402	Imp.	0.7	4.2	281	0.00
6	748.1	19.1	24	44	356	0.28	0.5	4.7	178	0.14
7	749.1	17.4	20	54	270	21.	1.0	5.7	270	21.00
8	750.1	20.1	30	45	468	19.	1.0	6.7	468	19.00
9	751.1	15.7	34	56	414	12.	1.0	7.7	414	12.00
10	752.1	14.7	20	70	228	1.9	1.0	8.7	228	1.90
11	753.1	19.2	27	54	403	17.	1.0	9.7	403	17.00
12	754.1	19.5	27	45	409	Imp.	1.0	10.7	409	0.00
13	755.1	17.2	22	60	294	25.	1.0	11.7	294	25.00
14	756.1	19.7	25	50	382	28.	1.2	12.9	458	33.60
15	757.1	19.3	33	47	494	9.4	1.3	14.2	642	12.20
16	758.1	17.7	26	43	358	Imp.	1.0	15.2	358	0.00
17	759.1	14.0	17	69	185	Imp.	1.0	16.2	185	0.00
18	760.1	20.8	31	46	501	10.	0.5	16.7	250	5.00
19	761.1	20.2	34	45	533	9.8	1.0	17.7	533	9.80
20	762.1	19.2	28	47	417	1.6	1.0	18.7	417	1.60
21	763.1	19.6	25	46	380	0.33	1.2	19.9	456	0.40
22	764.1	19.8	28	46	430	0.28	1.3	21.2	559	0.36
23	765.1	17.1	16	56	211	3.5	1.0	22.2	211	3.50
24	766.1	16.3	12	75	152	2.3	1.0	23.2	152	2.30
25	767.1	15.5	35	51	421	Imp.	1.0	24.2	421	0.00
26	768.1	16.0	5	83	62	3.9	1.0	25.2	62	3.90
27	769.1	14.2	13	79	143	0.68	1.0	26.2	143	0.68
28	770.1	15.4	6	81	72	0.34	1.0	27.2	72	0.34

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Thomas Oil Co. Lease Coleman "B" 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.		
29	771.1	18.8	27	56	83	5.6	1.0	28.2	394	5.60
30	772.1	17.7	13	69	82	1.3	1.0	29.2	178	1.30
31	773.1	19.0	17	56	73	1.8	1.0	30.2	251	1.80
32	774.1	17.6	10	66	76	9.4	1.0	31.2	137	9.40
33	775.1	17.3	12	71	83	3.4	1.0	32.2	161	3.40
34	776.1	18.5	16	56	72	9.4	1.0	33.2	230	9.40
35	777.1	18.4	21	58	79	9.3	1.0	34.2	300	9.30
36	778.1	18.3	7	69	76	1.8	1.0	35.2	99	1.80
37	779.1	18.3	20	59	79	8.8	1.0	36.2	284	8.80
38	780.1	18.6	23	54	77	4.5	1.0	37.2	332	4.50
39	781.1	19.0	23	55	78	7.7	1.0	38.2	339	7.70

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		Well No.	
Thomas Oil Co.		Coleman "B"		2	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
743.0 - 758.0	12.5	16.4	205.14		
760.0 - 782.0	21.0	4.3	90.88		
743.0 - 782.0	33.5	8.8	296.02		

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
743.0 - 758.0	14.2	18.3	24.3	52.5	349	4,992
758.0 - 782.0	24.0	18.2	19.9	60.8	272	6,524
743.0 - 782.0	38.2	18.2	21.6	57.3	302	11,516