

OILFIELD RESEARCH LABORATORIES

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 425 4444

- REGISTERED ENGINEERS -

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

March 15, 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 Coleman "A" Lease, Well No. 1, Labette County, Kansas, and submitted to our laboratory on March 10, 1961, by Mr. Jack Thomas.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Fred O. Stenger

FOS:db

5 c.

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GENERAL INFORMATION & SUMMARY

Company Thomas Oil Company Lease Coleman "A" Well No. 1

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

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 734.8

Bottom of Core - - - - - 782.0

Top of Sand - - - - - ?

Bottom of Sand - - - - - ?

Total Feet of Permeable Sand - - - - - 46.2

Total Feet of Floodable Sand - - - - - -

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	13.0	13.0
10 - 50	25.7	38.7
50 - 100	4.5	43.2
100 & above	3.0	46.2

Average Permeability Millidarcys - - - - - 36.60

Average Percent Porosity - - - - - 19.0

Average Percent Oil Saturation - - - - - 21.2

Average Percent Water Saturation - - - - - 61.0

Average Oil Content, Bbls./A. Ft. - - - - - 314.

Total Oil Content, Bbls./Acre - - - - - 14,858.

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 Coleman "A" Well No. 1

Depth Interval, Description
Feet

734.8 - 756.5 - Light brown laminated shaley sandstone.

756.5 - 757.5 - Laminated sandy shale.

757.5 - 782.0 - Light brown and gray laminated shaley sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Thomas Oil Company Lease Coleman "A" Well No. 1

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	735.0	18.3	22	57	313	28.	0.7	0.7	219	19.60
2	736.0	18.3	25	52	355	30.	1.0	1.7	355	30.00
3	737.0	19.1	22	52	326	29.	1.0	2.7	326	29.00
4	738.0	17.5	24	62	326	24.	1.0	3.7	326	24.00
5	739.0	18.7	19	59	276	23.	1.0	4.7	276	23.00
6	740.0	18.3	25	60	355	33.	1.0	5.7	355	33.00
7	741.0	15.8	14	78	172	1.4	1.0	6.7	172	1.40
8	742.0	17.7	23	60	315	55.	1.0	7.7	315	55.00
9	743.0	20.7	35	38	562	34.	1.0	8.7	562	34.00
10	744.0	15.6	41	47	496	4.8	1.0	9.7	496	4.80
11	745.0	19.9	34	44	524	31.	1.0	10.7	524	31.00
12	746.0	16.0	32	54	398	1.7	1.0	11.7	398	1.70
13	747.0	19.8	16	55	246	7.0	1.0	12.7	246	7.00
14	748.0	17.8	21	63	290	2.5	1.0	13.7	290	2.50
15	749.0	18.7	26	63	378	28.	1.0	14.7	378	28.00
16	750.0	20.4	19	56	301	8.4	1.0	15.7	301	8.40
17	751.0	19.7	26	57	397	61.	1.0	16.7	397	61.00
18	752.0	16.3	11	75	139	2.0	1.0	17.7	139	2.00
19	753.0	17.1	33	57	439	6.5	1.0	18.7	439	6.50
20	754.0	19.4	38	52	573	8.5	1.0	19.7	573	8.50
21	755.0	18.4	37	49	528	25.	1.0	20.7	528	25.00
22	756.0	20.5	30	52	477	5.8	1.0	21.7	477	5.80
23	757.0	13.4	33	59	343	Imp.	1.0	22.7	343	0.00
24	758.0	20.5	28	47	445	31.	1.0	23.7	445	31.00
25	759.0	21.5	26	53	433	48.	1.0	24.7	433	48.00
26	760.0	21.0	20	66	325	42.	1.0	25.7	325	42.00
27	761.0	21.4	15	62	249	46.	1.0	26.7	249	46.00

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Thomas Oil Company Lease Coleman "A" Well No. 1

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.		
28	762.0	20.1	13	63	76	6.0	1.0	27.7	203	6.00
29	763.0	17.2	9	72	81	1.4	1.0	28.7	120	1.40
30	764.0	20.2	17	76	93	20.	1.0	29.7	267	20.00
31	765.0	20.7	21	63	84	30.	1.0	30.7	338	30.00
32	766.0	21.7	19	58	77	32.	1.0	31.7	320	32.00
33	767.0	16.0	12	73	85	39.	1.0	32.7	149	39.00
34	768.0	19.5	15	67	82	26.	1.0	33.7	227	26.00
35	769.0	20.2	21	59	80	12.	1.0	34.7	329	12.00
36	770.0	17.2	10	70	80	18.	1.0	35.7	133	18.00
37	771.0	20.1	13	65	78	25.	1.0	36.7	203	25.00
38	772.0	21.0	17	70	87	54.	1.0	37.7	277	54.00
39	773.0	22.1	20	62	82	39.	1.0	38.7	343	39.00
40	774.0	20.2	15	67	82	29.	1.0	39.7	235	29.00
41	775.0	16.2	8	79	87	9.1	1.0	40.7	100	9.10
42	776.0	20.3	22	60	82	23.	1.0	41.7	347	23.00
43	777.0	15.4	6	78	84	42.	1.0	42.7	72	42.00
44	778.0	20.8	25	53	78	223.	1.0	43.7	403	223.00
45	779.0	19.3	10	70	80	179.	1.0	44.7	150	179.00
46	780.0	22.3	19	61	80	192.	1.0	45.7	329	192.00
47	781.0	20.3	18	68	86	56.	1.5	47.2	426	84.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III -- B

Company	Thomas Oil Company	Lease	Coleman "A"	Well No.	1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
734.8 - 756.5	21.7	20.32	441.20		
757.5 - 782.0	24.5	51.00	1250.50		
734.8 - 782.0	46.2	36.60	1691.70		

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 Bbbl./Acre
734.8 - 756.5	21.7	18.8	26.1	56.4	373	8,092
756.5 - 782.0	25.5	19.5	17.3	64.9	265	6,766
734.8 - 782.0	47.2	19.0	21.2	61.0	314	14,858