

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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June 21, 1962

Lyle Smith Drilling Company
301 South 9th
Independence, Kansas

Gentlemen:

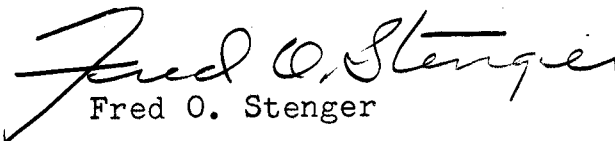
Enclosed herewith are the results of tests run on the Rotary core taken from the Gregory Lease, Well No. 9, Labette County, Kansas, and submitted to our laboratory on June 19, 1962.

This core was sampled and the samples sealed in plastic bags 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 Lyle Smith Drilling Co. Lease Gregory Well No. 9

Location _____

Section 35 Twp. 32S Rge. 17E County Labette State Kansas

Name of Sand	Bartlesville
Top of Core	720.0
Bottom of Core	745.0
Good Top of Sand	731.0
Bottom of Sand	?
Total Feet of Permeable Sand	25.0
Total Feet of Floodable Sand	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	9.0	9.0
10 - 50	5.0	14.0
50 & above	11.0	25.0

Average Permeability Millidarcys	36.2
Average Percent Porosity	19.1
Average Percent Oil Saturation	26.8
Average Percent Water Saturation	51.2
Average Oil Content, Bbls./A. Ft.	403.
Total Oil Content, Bbls./Acre	10,072.
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 Lyle Smith Drilling Co. Lease Gregory Well No. 9

Depth Interval, Description
Feet

720.0 - 721.0 - Gray shaly sandstone.

721.0 - 731.0 - Brown shaly sandstone.

731.0 - 745.0 - Brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Lyle Smith Drilling Co. Lease Gregory Well No. 9

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	Total			Ft.	Cum. Ft.		
1	720.5	15.8	19	69	88	233	1.3	1.0	1.0	233	1.30
2	721.5	18.8	25	55	80	364	15.	1.0	2.0	364	15.00
3	722.5	18.8	21	55	76	306	5.9	1.0	3.0	306	5.90
4	723.5	19.3	25	50	75	374	13.	1.0	4.0	374	13.00
5	724.5	17.3	21	54	75	282	3.3	1.0	5.0	282	3.30
6	725.5	17.4	24	58	82	324	3.1	1.0	6.0	324	3.10
7	726.5	18.1	24	56	80	337	9.9	1.0	7.0	337	9.90
8	727.5	15.8	25	57	82	306	4.4	1.0	8.0	306	4.40
9	728.5	18.5	29	58	87	416	3.2	1.0	9.0	416	3.20
10	729.5	18.6	18	56	74	260	9.3	1.0	10.0	260	9.30
11	730.5	17.1	26	57	83	345	8.0	1.0	11.0	345	8.00
12	731.5	19.8	33	44	77	507	53.	1.0	12.0	507	53.00
13	732.5	22.4	56	41	97	973	71.	1.0	13.0	973	71.00
14	733.5	18.8	38	44	82	554	32.	1.0	14.0	554	32.00
15	734.5	18.3	29	48	77	412	28.	1.0	15.0	412	28.00
16	735.5	19.6	26	51	77	395	61.	1.0	16.0	395	61.00
17	736.5	19.8	28	47	75	430	65.	1.0	17.0	430	65.00
18	737.5	19.7	23	52	75	352	64.	1.0	18.0	352	64.00
19	738.5	20.6	26	49	75	415	41.	1.0	19.0	415	41.00
20	739.5	20.3	26	46	72	409	60.	1.0	20.0	409	60.00
21	740.5	21.0	29	43	72	473	64.	1.0	21.0	473	64.00
22	741.5	20.8	27	45	72	435	78.	1.0	22.0	435	78.00
23	742.5	20.6	26	49	75	415	69.	1.0	23.0	415	69.00
24	743.5	21.0	23	50	73	375	79.	1.0	24.0	375	79.00
25	744.5	20.4	24	48	72	380	66.	1.0	25.0	380	66.00
Total								-----		10,072	

Oilfield Research Laboratories SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lessor		Gregory		Well No.	
Lyle Smith Drilling Co.						9	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre		
720.0 - 731.0	11	23.3	56.8	322	3,547		
731.0 - 745.0	14	29.6	47.0	466	6,525		
720.0 - 745.0	25	26.8	51.2	403	10,072		