OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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September 24, 1962

Mid-Continent Drilling & Producing Company
P.O. Box 1002
Colorado Springs, Colorado

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Edd Greer Lease, Well No. 1, Wilson County, Kansas, and submitted to our laboratory on September 17, 1962.

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

Benjamin R. Pearman

Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company Mid Continent Drilling & Producing Company Lease Edd Greer Well No. 1

Location NE¼

Section 30 Twp. 28S Rge. 17E County Wilson State Kansas

Name of Sand	Squirrel
Top of Core	657.0
Bottom of Core	685.0
Top of Sand	659.3
Bottom of Sand	679.4
Total Feet of Permeable Sand	16.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	7.2	7.2
5 - 10	2.0	9.2
10 - 50	2.9	12.1
50 - 100	2.7	14.8
100 & above	2.0	16.8

Average Permeability Millidarcys	41.1
Average Percent Porosity	14.7
Average Percent Oil Saturation	36.4
Average Percent Water Saturation	42.4
Average Oil Content, Bbls./A. Ft.	434.
Total Oil Content, Bbls./Acre	8,713.
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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Company Mid Continent Drilling & Producing Company Lease Edd Greer Well No. 1

Depth Interval, Feet	Description
657.0 - 659.3	Gray sandy shale.
659.3 - 664.8	Brown, slightly shaly sandstone.
664.8 - 665.8	Light brown, slightly shaly sandstone.
665.8 - 667.2	Brown sandstone.
667.2 - 672.7	Grayish light brown, shaly sandstone.
672.7 - 673.4	Brown, slightly shaly sandstone.
673.4 - 677.2	Light brown to dark, shaly sandstone.
677.2 - 679.4	Dark carbonaceous sandstone.
679.4 - 685.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mid Continent Drilling & Prod. Co. Lease Edd Greer 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	Total			Ft.	Cum. Ft.		
1	660.0	8.9	29	17	46	200	28.	1.2	1.2	240	33.60
2	661.0	16.2	40	35	75	502	188.	1.0	2.2	502	188.00
3	662.0	14.9	31	40	71	358	188.	1.0	3.2	358	188.00
4	663.0	14.3	43	53	96	476	7.7	1.0	4.2	476	7.70
5	664.0	18.8	51	32	83	744	68.	1.3	5.5	967	88.40
6	665.0	11.0	28	58	86	239	Imp.	1.0	6.5	239	0.00
7	666.0	18.1	44	33	77	617	74.	0.7	7.2	432	51.80
8	667.0	20.6	47	38	85	751	93.	0.7	7.9	526	65.10
9	668.0	12.6	25	68	93	244	0.28	1.3	9.2	317	0.36
10	669.0	16.0	38	28	66	471	0.23	1.0	10.2	471	0.23
11	670.0	16.0	36	40	76	446	26.	1.0	11.2	446	26.00
12	671.0	17.4	40	35	75	540	2.5	1.0	12.2	540	2.50
13	672.0	11.4	17	68	85	150	Imp.	1.2	13.4	180	0.00
14	673.0	16.4	34	38	72	432	37.	0.7	14.1	302	25.90
15	674.0	10.1	17	77	94	133	Imp.	1.1	15.2	146	0.00
16	675.0	16.1	41	33	74	511	5.8	1.0	16.2	511	5.80
17	676.0	15.2	40	33	73	471	0.55	1.0	17.2	471	0.55
18	677.0	11.7	19	75	94	173	3.5	0.7	17.9	121	2.45
19	678.0	14.1	54	33	87	590	2.6	1.3	19.2	766	3.38
20	679.0	18.3	55	11	66	780	1.1	0.9	20.1	702	0.99
								Total	-------	8,713	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Mid Continent Drilling & Prod. Co. Lease Edd Greer Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
659.3 - 667.2	6.9	90.2	622.60
667.2 - 679.4	9.9	6.9	68.16
659.3 - 679.4	16.8	41.1	690.76

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
659.3 - 667.2	7.9	15.0	38.8	37.6	474	3,740
667.2 - 679.4	12.2	14.5	34.6	45.5	407	4,973
659.3 - 679.4	20.1	14.7	36.4	42.4	434	8,713