

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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February 2, 1962

R.Y. Drilling Company
552 South 5th
Neodesha, Kansas

Gentlemen:

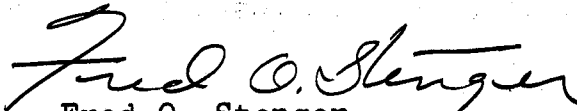
Attached hereto are the results of tests run on the Rotary core samples taken from the Walker Lease, Well No. 5, Montgomery County, Kansas, and submitted to our laboratory on January 28, 1962.

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 R.Y. Drilling Co. Lease Walker Well No. 5
 Location 1800' East of West line & 1400' North of South line.
 Section 31 Twp. 31S Rge. 17E County Montgomery State Kansas

Name of Sand	- - - - -	Bartlesville
Top of Core	- - - - -	780.0
Bottom of Core	- - - - -	794.0
Top of Sand	- - - - -	?
Bottom of Sand	- - - - -	?
Total Feet of Permeable Sand	- - - - -	8.0
Total Feet of Floodable Sand	- - - - -	-

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

	Feet	Cum. Ft.
0 - 1	7.0	7.0
1 & above	1.0	8.0

Average Permeability Millidarcys	- - - - -	0.67
Average Percent Porosity	- - - - -	14.4
Average Percent Oil Saturation	- - - - -	39.7
Average Percent Water Saturation	- - - - -	37.2
Average Oil Content, Bbls./A. Ft.	- - - - -	443.
Total Oil Content, Bbls./Acre	- - - - -	3,991.
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	- - (Primary) - - - - -	840.
Packer Setting, Feet	- - - - -	
Viscosity, Centipoises @	- - - - -	
A. P. I. Gravity, degrees @ 60 °F	- - - - -	
Elevation, Feet	- - - - -	

LOG

Company R. Y. Drilling Co. Lease Walker Well No. 5

Depth Interval, Description
Feet

780.0 - 785.0 - Light brown shaley sandstone.

785.0 - 786.0 - Dark carbonaceous sandstone.

786.0 - 789.0 - Core not received.

789.0 - 790.0 - Brown to dark carbonaceous sandstone.

790.0 - 791.0 - Core not received.

791.0 - 792.0 - Dark carbonaceous shaley sandstone.

792.0 - 793.0 - Core not received.

793.0 - 794.0 - Light brown shaley sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company R.Y. Drilling Co.

Lease Walker

Well No. 5

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	780.5	14.5	36	39	75	404	0.47	1.0	1.0	404	0.47
2	781.5	14.2	45	30	75	495	0.75	1.0	2.0	495	0.75
3	782.5	15.0	55	37	92	639	0.56	1.0	3.0	639	0.56
4	783.5	14.7	34	38	72	387	0.66	1.0	4.0	387	0.66
5	784.5	14.5	42	43	85	471	0.76	1.0	5.0	471	0.76
6	785.5	14.7	41	35	76	466	1.5	1.0	6.0	466	1.50
7	789.5	14.4	38	37	75	424	0.35	1.0	7.0	424	0.35
8	791.5	13.6	36	42	78	379	Imp.	1.0	8.0	379	0.00
9	793.5	14.0	30	34	64	326	0.30	1.0	9.0	326	0.30
								Total	-----	3,991	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Walker	Well No.				
			5				
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Pt. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
780.0 - 794.0	780.0 - 794.0	8.0	0.67	5.35			
780.0 - 794.0					39.7	37.2	443
					14.4		3,991