OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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Chanute, Kansas

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

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, Feet	Description
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.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-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	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

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

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
780.0 - 794.0	8.0	0.67	5.35

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
780.0 - 794.0	9.0	14.4	39.7	37.2	443	3,991