● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

September 11, 1962

J. E. Newton
238 South Elm Avenue
Webster Groves 19, Missouri

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Harry Rigney, Jr. Lease, Well No. 2-W, Miami County, Kansas, and submitted to our laboratory on September 7, 1962,

This core was sampled after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Fred O. Stenger

Fred O. Stenger

FOS:rf

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company J.E. Newton Lease Harry Rigney, Jr. Well No. 2-W

Location 10' North of South line & 10' East of West line, N½ SW¼

Section 12 Twp. 17S Rge. 24E County Miami State Kansas

Name of Sand	Peru
Top of Core	429.8
Bottom of Core	440.8
Top of Sand	?
Bottom of Sand	?
Total Feet of Permeable Sand (Effective)	8.0
Total Feet of Floodable Sand	-

Distribution of Permeable Sand (Effective):

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.0	2.0
1 - 5	4.0	6.0
5 & above	2.0	8.0

Average Permeability Millidarcys (Effective)	5.07
Average Percent Porosity	19.2
Average Percent Oil Saturation	55.7
Average Percent Water Saturation	24.8
Average Oil Content, Bbls./A. Ft.	834.
Total Oil Content, Bbls./Acre	9,174.
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 J.E. Newton Lease Harry Rigney, Jr. Well No. 2-W

Depth Interval, Feet	Description
429.8 - 440.8	Brown, laminated, slightly shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company J. E. Newton Lease Harry Rigney, Jr. Well No. 2-W

(Effective)

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	430.0	20.5	48	27	75	764	4.83	0.7	0.7	534	3.38
2	431.0	21.4	60	22	82	996	0.250	1.0	1.7	996	0.25
3	432.0	18.5	55	29	84	790	4.41	1.0	2.7	790	4.41
4	433.0	24.0	63	13	76	1,173	23.32	1.0	3.7	1,173	23.32
5	434.0	18.0	50	37	87	699	Imp.	1.0	4.7	699	0.00
6	435.0	18.8	49	38	87	715	2.17	1.0	5.7	715	2.17
7	436.0	13.7	58	22	80	617	5.00	1.0	6.7	617	5.00
8	437.0	20.5	56	24	80	891	Imp.	1.0	7.7	891	0.00
9	438.0	20.5	66	19	85	1,050	0.750	1.0	8.7	1,050	0.75
10	439.0	15.0	51	27	78	594	Imp.	1.0	9.7	594	0.00
11	440.0	20.1	55	18	73	858	1.00	1.3	11.0	1,115	1.30
								Total	------	9,174	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company J. E. Newton Lease Harry Rigney, Jr. Well No. 2-W

Depth Interval, Feet	Feet of Core Analyzed	(Effective) Average Permeability, Millidarcys	(Effective) Permeability Capacity Ft. x Md.
429.8 - 440.8	8.0	5.07	40.58

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
429.8 - 440.8	11.0	19.2	55.7	24.8	834	9,174