

OILFIELD RESEARCH LABORATORIES

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- REGISTERED ENGINEERS -

Chanute, Kansas

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April 28, 1959

I. J. & F. P. Newlin
Tioga Hotel
Chanute, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the 2" Rotary core taken from the Davis Lease, Well No. A-1, Bourbon County, Kansas, and submitted to our laboratory by Mr. I. J. Newlin on April 24, 1959.

This core was sampled and the samples sealed in jars by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Carl L. McElrea

CLM:cs

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GENERAL INFORMATION & SUMMARY

Company	I. J. & F. P. Newlin		Lease	Davis		Well No.	A-1
Location	W $\frac{1}{2}$, SW $\frac{1}{4}$						
Section	23	Twp.	23S	Rge.	21E	County	Bourbon
						State	Kansas
Name of Sand	-						Bartlesville
Top of Core	- (Received) -						646.5
Bottom of Core	-						658.5
Top of Sand	-						?
Bottom of Sand	-						?
Total Feet of Permeable Sand	-						-
Total Feet of Floodable Sand	-						-
Distribution of Permeable Sand:							
Permeability Range	Feet						Cum. Ft.
Millidarcys							
Average Permeability Millidarcys	-						-
Average Percent Porosity	-						20.1
Average Percent Oil Saturation	-						58.5
Average Percent Water Saturation	-						27.0
Average Oil Content, Bbls./A. Ft.	-						910.
Total Oil Content, Bbls./Acre	-						3,638.
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 I. J. & F. P. Newlin Lease Davis Well No. A-1

Depth Interval, Description
Feet

646.5 - 655.0 - Dark carbonaceous shaley sandstone.

655.0 - 658.5 - Dark gray shaley sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company I. J. & F. P. Newlin Lease Davis Well No. A-1

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	645.0	16.0	50	32	82	620	Imp.	1.0	1.0	1,010	
2	647.1	21.0	62	25	87	1,010	Imp.	1.0	2.0	686	
3	649.1	21.1	42	27	69	686	Imp.	1.0	3.0	766	
4	651.1	18.0	55	38	93	766	Imp.	1.0	4.0	1,176	
5	653.1	20.2	75	18	93	1,176	Imp.				
								Total	- - -	- 3,638	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III - B

Company	I. J. & F. P. Newlin		Lease	Davis		Well No.	A-1
Depth Interval, Feet	Feet of Core Analyzed	Average Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
646.5 - 653.5	4.0	20.1	58.5	27.0	910	3,638	