

OILFIELD RESEARCH LABORATORIES

• REGISTERED ENGINEERS •

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December 24, 1962

Sam P. Flemming, M.D., et al
5842 Mission Road
Mission, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core samples taken from the Leroy Wasmund Lease, Well No. P-1, Franklin County, Kansas, and submitted to our laboratory on December 21, 1962.

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

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company <u>Sam P. Flemming, M.D, et al</u>	Lease <u>Leroy Wasmund</u>	Well No. <u>P-1</u>
Location <u>165' East of West line & 165' North of South line, SW$\frac{1}{4}$</u>		
Section <u>18</u> Twp. <u>18S</u> Rge. <u>20E</u>	County <u>Franklin</u>	State <u>Kansas</u>
Name of Sand - - - - -		Squirrel
Top of Core - - - - -		733.5
Bottom of Core - - - - -		747.5
Top of Sand - - - - - (Tested)		733.5
Bottom of Sand - - - - - (Tested)		747.5
Total Feet of Permeable Sand - - - - -		14.0
Total Feet of Floodable Sand - - - - -		-

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.	
0 - 12	5.0	5.0	
12 - 36	4.0	9.0	
36 - 72	3.0	12.0	
72 & above	2.0	14.0	

Average Permeability Millidarcys - - - - -	39.4
Average Percent Porosity - - - - -	19.5
Average Percent Oil Saturation - - - - -	42.0
Average Percent Water Saturation - - - - -	48.6
Average Oil Content, Bbls./A. Ft. - - - - -	635.
Total Oil Content, Bbls./Acre - - - - -	8,890.
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)	1,270.
Packer Setting, Feet - - - - -	
Viscosity, Centipoises @ - - - - -	
A. P. I. Gravity, degrees @ 60 °F - - - - -	
Elevation, Feet - - - - -	

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Company Sam P. Flemming, MD., et al Lease Leroy Wasmund Well No. P-1

Depth Interval, Description
Feet

733.5 - 740.5 - Dark brown, slightly shaly sandstone.

740.5 - 747.5 - Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sam P. Flemming, M.D., et al Lease Leroy Wasmund Well No. P-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	734.0	17.9	32	59	91	444	10.	1.0	1.0	444	10.00
2	735.0	18.1	47	48	95	659	31.	1.0	2.0	659	31.00
3	736.0	20.7	44	43	87	706	143.	1.0	3.0	706	143.00
4	737.0	18.5	45	48	93	645	114.	1.0	4.0	645	114.00
5	738.0	20.4	49	46	95	775	71.	1.0	5.0	775	71.00
6	739.0	20.8	43	45	88	693	59.	1.0	6.0	693	59.00
7	740.0	23.6	41	38	79	749	38.	1.0	7.0	749	38.00
8	741.0	17.7	33	60	93	453	2.7	1.0	8.0	453	2.70
9	742.0	20.0	43	48	91	665	20.	1.0	9.0	665	20.00
10	743.0	18.9	31	53	84	454	4.2	1.0	10.0	454	4.20
11	744.0	18.7	49	45	94	710	0.61	1.0	11.0	710	0.61
12	745.0	19.0	40	57	97	589	28.	1.0	12.0	589	28.00
13	746.0	20.5	46	49	95	731	6.3	1.0	13.0	731	6.30
14	747.0	18.1	44	41	85	617	23.	1.0	14.0	617	23.00
Total									- - -	8,890	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Sam P. Flemming, M.D., et al Lease Leroy Wasmund Well No. P-1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
733.5 - 740.5	7.0	66.6	466.00
740.5 - 747.5	7.0	12.1	84.81
733.5 - 747.5	14.0	39.4	550.81

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 Bbbl./Acre
733.5 - 740.5	7.0	20.0	43.0	46.7	667	4,671
740.5 - 747.5	7.0	19.0	40.8	50.5	603	4,219
733.5 - 747.5	14.0	19.5	42.0	48.6	635	8,890