



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

January 9, 1979

4-J Oil Company
Box 233
Osawatomie, Kansas 66064

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Johnson Lease, Well No. B-8, Miami County, Kansas, and submitted to our laboratory on January 6, 1979.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
5 c to Osawatomie, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company <u>4-J Oil Company</u>	Lease <u>Johnson</u>	Well No. <u>B-8</u>
Location <u>165' N & 165' W SE SW</u>		
Section <u>36</u>	Twp. <u>17S</u>	Rge. <u>21E</u>
County <u>Miami</u>		State <u>Kansas</u>

Name of Sand	Squirrel
Top of Core	483.0
Bottom of Core	489.0
Top of Sand	483.0
Bottom of Sand	488.2
Total Feet of Permeable Sand	3.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	2.5	2.5
5 - 25	1.3	3.8

Average Permeability Millidarcys	9.5
Average Percent Porosity	18.2
Average Percent Oil Saturation	39.5
Average Percent Water Saturation	40.7
Average Oil Content, Bbls./A. Ft.	564.
Total Oil Content, Bbls./Acre	2,143.
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 4-J Oil Company Lease Johnson Well No. B-8

<u>Depth Interval, Feet</u>	<u>Description</u>
483.0 - 485.5	Light brown and gray laminated very shaly sandstone.
485.5 - 486.9	Light brown and gray sandy shale.
486.9 - 488.2	Brown sandstone.
488.2 - 489.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company 4-J Oil Company

Lease Johnson

Well No. B-8

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	483.6	15.6	33	47	80	399	0.69	1.0	1.0	399	0.69
2	484.9	18.3	39	44	83	554	4.6	1.5	2.5	831	6.90
3	487.2	20.1	45	32	77	702	22.	1.3	3.8	913	28.60