



# OILFIELD RESEARCH LABORATORIES

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

August 28, 1979

Yenom Oil Company  
841 North Broadway  
Wichita, Kansas 67214

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Clifton Jackson Lease, Well No. 4, Allen County, Kansas, and submitted to our laboratory on August 25, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

  
Benjamin R. Pearman

SAM:km  
4 c to Wichita, Kansas  
1 c to Chanute, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Yenom Oil Company Lease Clifton Jackson Well No. 4

Location 1155' NSL & 165' EWL SE $\frac{1}{4}$  W $\frac{1}{2}$

Section 17 Twp. 26S Rge. 21E County Allen State Kansas

Name of Sand	-	Bartlesville
Top of Core	-	698.0
Bottom of Core	-	722.0
Top of Sand	-	700.3
Bottom of Sand	-	719.8
Total Feet of Permeable Sand	-	9.9
Total Feet of Floodable Sand	-	

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 1	3.3	3.3
1 - 5	1.7	5.0
50 - 100	2.9	7.9
100 - 200	2.0	9.9

Average Permeability Millidarcys	-	54.7
Average Percent Porosity	-	15.9
Average Percent Oil Saturation	-	31.8
Average Percent Water Saturation	-	51.2
Average Oil Content, Bbls./A. Ft.	-	404.
Total Oil Content, Bbls./Acre	-	4,687.
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 Yenom Oil Company Lease Clifton Jackson Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
698.0 - 700.3	Gray sandy shale.
700.3 - 704.0	Laminated sandstone and shale; 40% sandstone, 60% shale.
704.0 - 705.7	Brown shaly sandstone.
705.7 - 710.6	Brown sandstone.
710.6 - 712.0	Black shale.
712.0 - 715.0	Soft rotten gray shale.
715.0 - 718.5	Gray sandy shale.
718.5 - 719.8	Dark carbonaceous shaly sandstone.
719.8 - 722.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Yenom Oil Company Lease Clifton Jackson Well No. 4

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			Oil	Cum. Ft.		
1	700.5	10.7	21	73	174	Imp.	0.7	0.7	122	0.00
2	701.5	7.8	14	81	85	Imp.	1.0	1.7	85	0.00
3	702.5	13.1	19	68	193	0.50	1.0	2.7	193	0.50
4	703.5	16.2	23	49	289	4.2	1.0	3.7	289	4.20
5	704.5	6.5	55	39	277	0.50	1.0	4.7	277	0.50
6	705.5	16.2	27	53	339	3.2	0.7	5.4	237	2.24
7	706.5	21.1	46	29	753	58.	1.3	6.7	979	75.40
8	707.5	22.1	35	35	600	161.	1.0	7.7	600	161.00
9	708.5	22.3	31	38	536	178.	1.0	8.7	536	178.00
10	709.5	20.4	37	48	586	88.	1.0	9.7	586	88.00
11	710.5	15.8	20	74	245	51.	0.6	10.3	147	30.60
12	718.7	15.3	38	50	451	0.84	1.3	11.6	586	1.09

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Yenom Oil Company	Lease	Clifton Jackson	Well No.	4		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
700.3 - 705.7	3.7	2.0	7.44	11.6	60.3	232	1,253
705.7 - 719.8	6.2	86.1	534.09	19.6	43.2	554	3,434
700.3 - 719.8	9.9	54.7	541.53	15.9	51.2	404	4,687