



OILFIELD RESEARCH LABORATORIES

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

October 16, 1979

Beckett Oil Company
620 East Carpenter
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Teats Lease, Well No. 8, Allen County, Kansas and submitted to our laboratory on October 5, 1979.

The core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

GLW/tem

5 c to Iola, Kansas

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GENERAL INFORMATION & SUMMARY

Company Beckett Oil Company Lease Teats Well No. 8

Location NW 1/4 - SE 1/4

Section 36 Twp. 24S Rge. 17E County Allen State Kansas

Name of Sand	-	Squirrel
Top of Core	-	823.0
Bottom of Core	-	830.0
Top of Sand	-	823.0
Bottom of Sand	-	830.0
Total Feet of Permeable Sand	-	5.6
Total Feet of Floodable Sand	-	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0.0 - 1.0	1.0	3.3
1.0 - 5.0	0.4	3.7
5.0 - 12.0	1.9	5.6

Average Permeability Millidarcys	-	4.4
Average Percent Porosity	-	15.3
Average Percent Oil Saturation	-	57.6
Average Percent Water Saturation	-	18.3
Average Oil Content, Bbls./A. Ft.	-	680.
Total Oil Content, Bbls./Acre	-	3,808.
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 Beckett Oil Company Lease Teats Well No. 8

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
823.0 - 823.9	Brown very hard calcerous sandstone.
823.9 - 825.8	Very dark brown slightly shaly sandstone.
825.8 - 827.2	Dark brown shaly sandstone.
827.2 - 827.8	Brownish gray hard calcareous sandstone.
827.8 - 828.2	Dark brown slightly laminated shaly sandstone.
828.2 - 830.0	Dark brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Beckett Oil Company Lease Teats Well No. 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	823.5	9.3	62	15	77	447	1.0	0.9	0.9	402	0.90
2	824.8	17.3	55	11	66	738	9.9	1.1	2.0	812	10.89
3	825.5	16.5	51	24	75	653	12.	0.8	2.8	522	9.60
4	826.5	15.7	57	20	77	694	0.31	1.4	4.2	972	0.43
5	828.0	16.6	53	27	80	683	4.9	0.4	4.6	273	1.96
6	829.5	16.4	65	19	84	827	0.92	1.0	5.6	827	0.92

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Teats	Well No.	
Beckett Oil Company			8	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
823.0 - 830.0	5.6	4.4	24.69	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
823.0 - 830.0	5.6	57.6	18.3	680
		15.3		3,808