



OILFIELD RESEARCH LABORATORIES

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

August 20, 1979

Crude Oil Production Co., Inc.
316 Pine Lane
Topeka, Kansas 66617

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Webb Lease, Well No. 1, Johnson County, Kansas, and submitted to our laboratory on August 15, 1979.

This core was sampled by a representative of Oilfield Research Laboratories after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:cgb

6 c to Topeka, Kansas

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GENERAL INFORMATION & SUMMARY

Company Crude Oil Production Co., Inc. Lease Webb Well No. 1

Location NW NE

Section 7 Twp. 14S Rge. 23E 22? County Johnson State Kansas

Name of Sand	- - - - -	Lower Squirrel
Top of Core	- - - - -	661.0
Bottom of Core	- - - - -	674.0
Top of Sand	- - - - -	661.6
Bottom of Sand	- - - - -	673.2
Total Feet of Permeable Sand	- - - - -	10.5
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
2 - 5	6.1	6.1
5 - 10	3.3	9.4
10 & Above	1.1	10.5

Average Permeability Millidarcys	- - - - -	6.6
Average Percent Porosity	- - - - -	17.7
Average Percent Oil Saturation	- - - - -	29.8
Average Percent Water Saturation	- - - - -	53.6
Average Oil Content, Bbls./A. Ft.	- - - - -	408.
Total Oil Content, Bbls./Acre	- - - - -	4,283.
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 Crude Oil Production Co., Inc. Lease Webb Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
661.0 - 661.6	Hard gray very calcareous sandstone.
661.6 - 664.9	Brown slightly shaly sandstone.
664.9 - 669.0	Brown and gray laminated sandstone and shale.
669.0 - 669.7	Brown slightly shaly sandstone.
669.7 - 670.2	Gray sandy shale.
670.2 - 670.6	Brown sandstone.
670.6 - 670.8	Gray sandy shale.
670.8 - 671.8	Brown and gray laminated sandstone and shale.
671.8 - 672.2	Brown shaly sandstone.
672.2 - 673.2	Brown and gray laminated sandstone and shale.
673.2 - 674.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Crude Oil Production Co., Inc. Lease Webb Well No. 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	662.4	18.7	32	47	79	464	6.3	1.4	1.4	650	8.82
2	663.6	18.0	34	49	83	475	9.4	1.0	2.4	475	9.40
3	664.5	15.8	50	43	93	613	7.5	0.9	3.3	551	6.75
4	665.5	18.7	26	50	76	377	4.5	1.1	4.4	415	4.95
5	666.4	16.4	23	70	93	293	4.7	1.0	5.4	293	4.70
6	667.3	18.4	18	66	84	257	3.2	1.0	6.4	257	3.20
7	668.9	18.5	42	34	76	603	4.5	1.0	7.4	603	4.50
8	669.5	18.2	36	53	89	508	13.	0.7	8.1	356	9.10
9	670.4	17.3	20	64	84	268	28.	0.4	8.5	107	11.20
10	671.7	17.0	29	50	79	383	3.9	1.0	9.5	383	3.90
11	672.4	16.6	15	73	88	193	2.8	1.0	10.5	193	2.80

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Crude Oil Production Co., Inc.	Lease	Webb	Well No.	1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
661.6 - 673.2	10.5	6.6	69.32			
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
661.6 - 673.2	10.5	17.7	29.8	53.6	408	4,283