



OILFIELD RESEARCH LABORATORIES

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

August 21, 1979

Kansas Crude Company
820 Meadowbrook
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Cummings B Lease, Well No. 19, Woodson County, Kansas, and submitted to our laboratory on August 18, 1979.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Benjamin R. Pearman

BRP:bl
5 c to Iola, Kansas

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GENERAL INFORMATION & SUMMARY

Company Kansas Crude Company Lease Cummings B Well No 19

Location NE

Section 18 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	992.0
Bottom of Core	1001.0
Top of Sand	992.0
Bottom of Sand	998.0
Total Feet of Permeable Sand	5.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

30 - 50
50 & above

3.9
1.6

3.9
5.5

Average Permeability Millidarcys	52.2
Average Percent Porosity	17.8
Average Percent Oil Saturation	53.6
Average Percent Water Saturation	16.2
Average Oil Content, Bbls./A. Ft.	740.
Total Oil Content, Bbls./Acre	4,068.
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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Company Kansas Crude Company Lease Cummings B Well No. 19

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
992.0 - 994.6	- Dark brown slightly shaly sandstone.
994.6 - 995.1	- Gray and dark brown laminated shale and sandstone.
995.1 - 998.0	- Dark brown slightly shaly sandstone.
998.0 - 1001.0	- Gray shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Kansas Crude CompanyLease Cummings BWell No. 19

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	992.5	15.7	56	19	75	682	30.	1.0	1.0	682	30.00
2	993.5	18.9	52	15	67	763	46.	1.0	2.0	763	46.00
3	994.5	19.0	51	14	65	752	59.	0.6	2.6	451	35.40
4	995.3	18.5	53	14	67	761	37.	0.9	3.5	685	33.30
5	996.6	18.1	53	11	64	744	93.	1.0	4.5	744	93.00
6	997.5	17.1	56	23	79	743	50.	1.0	5.5	743	50.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Kansas Crude Company	Lease	Cummings B	Well No.	19
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