



OILFIELD RESEARCH LABORATORIES

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

May 31, 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. 17, Woodson County, Kansas, and submitted to our laboratory on May 25, 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:cgb

5 c to Iola, Kansas

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GENERAL INFORMATION & SUMMARY

Company Kansas Crude Company Lease Cummings B Well No. 17

Location NE

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

Name of Sand	Squirrel
Top of Core	977.0
Bottom of Core	982.0
Top of Sand	977.0
Bottom of Sand	982.0
Total Feet of Permeable Sand	5.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 20	3.0	3.0
20 & Above	2.0	5.0

Average Permeability Millidarcys	19.4
Average Percent Porosity	16.1
Average Percent Oil Saturation	55.4
Average Percent Water Saturation	22.8
Average Oil Content, Bbls./A. Ft.	694.
Total Oil Content, Bbls./Acre	3,469.
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 Kansas Crude Company Lease Cummings B Well No. 17

Depth Interval,
Feet

Description

977.0 - 982.0

Dark brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Kansas Crude Company Lease Cummings B Well No. 17

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	977.5	14.1	57	24	81	624	14.	1.0	1.0	624	14.00
2	978.5	17.5	58	20	78	787	15.	1.0	2.0	787	15.00
3	979.5	15.4	43	35	78	514	19.	1.0	3.0	514	19.00
4	980.5	15.5	61	16	77	734	20.	1.0	4.0	734	20.00
5	981.5	18.0	58	19	77	810	29.	1.0	5.0	810	29.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company <u>Kansas Crude Company</u>		Lease <u>Cummings B</u>		Well No. <u>17</u>	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
977.0 - 982.0	5.0	19.4	97.00		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Water Saturation	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
977.0 - 982.0	5.0	16.1	55.4	694	3,469